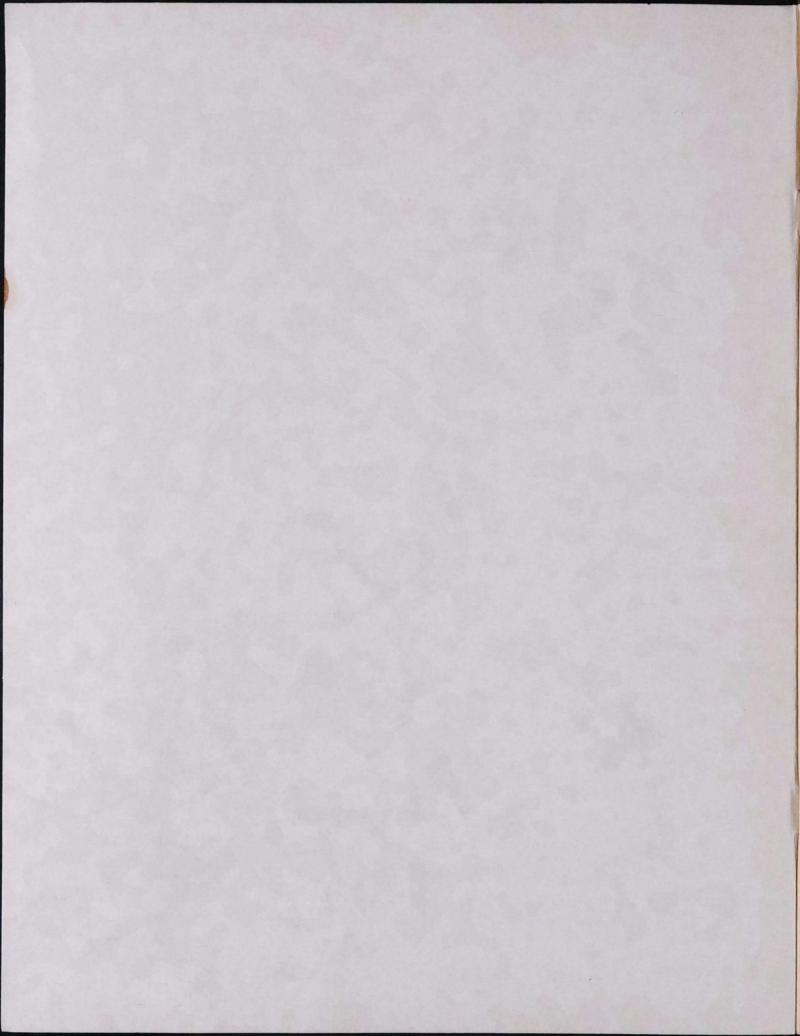


CAÑADA COLLEGE CATALOG

1986 - 1987



#### **BOARD OF TRUSTEES**

Cañada College is part of the San Mateo County Community College District which also operates College of San Mateo in San Mateo and Skyline College in San Bruno. The District and its Colleges are governed by a five-member Board of Trustees elected at large for four-year terms by county voters.

James R. Tormey, Jr., President

Tom Huening, Clerk

William E. Jordan, M.D.

Eleanore D. Nettle

Jim Warren

Glenn P. Smith, District Chancellor-Superintendent

Cañada College, a community college within the San Mateo County Community College District, is accredited by the Western Association of Schools and Colleges.

## CAÑADA COLLEGE

4200 Farm Hill Blvd. Redwood City, California 94061 Phone Day (415) 364-1212 Evening (415) 364-0262

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The San Mateo County Community College District and Cañada College have made every reasonable effort to determine that everything stated in this catalog is accurate. Courses and programs offered, together with other matters contained herein, are subject to change without notice by the administration of the San Mateo County Community College District or Cañada College for reasons related to student enrollment, level of financial support, or for any other reason, at the discretion of the District and the College. At the time of publication, the fees described in this catalog are accurate. However, at any time, local or state mandated fees may be imposed or increased. The District and the College further reserve the right to add, amend, or repeal any of their rules, regulations, policies and procedures, consistent with applicable laws.

Design/Layout Barbara Fruhwirth

Cover Painting Victor Luna

Photography

Barbara Fruhwirth, Edwin Garcia, Jon Schulenberger, Isago Tanaka

## SUMMER INTERSESSION, 1986

- June 23 Summer Intersession begins
- July 4 Holiday - Independence Day
- Aug. 1 Six-week Summer Intersession ends
- Aug. 15 Eight-week Summer Intersession ends
- Aug. 29 Ten-week Summer Intersession ends

## FALL SEMESTER, 1986

- Sept. 1 Holiday-Labor Day
- Sept. 8 Classes begin
- Sept. 19 Last day to add classes
- Sept. 19 Last day to drop classes with eligibility for enrollment fee refund
- Sept. 19 Last day to drop classes without paying drop fee
- Sept. 29 First Census Day
- Oct. 3 Last day to drop classes without appearing on student's record
- Nov. 7 Mid-Term grade reports due
- Nov. 10 Holiday Veterans' Day
- Nov. 17 Second Census Day
- Nov. 27 Holiday Thanksgiving
- Nov. 28-29 Declared recess
- Dec. 12 Last day to drop semester-length classes without possible penalty grade
- Dec. 19-Jan. 3 Winter recess
- Jan. 16-23 Final examinations (Day classes)
- Jan. 19 Holiday Martin Luther King
- Jan. 23 Classes close
- Jan. 24-31 Inter-semester recess

## SPRING SEMESTER, 1987

- Feb. 2 Classes begin
- Feb. 13 Holiday Abraham Lincoln
- Feb. 14 Declared recess
- Feb. 16 Holiday George Washington
- Feb. 17 Last day to add classes
- Feb. 17 Last day to drop classes with eligibility for enrollment fee refund
- Feb. 17 Last day to drop classes without paying drop fee
- Feb. 23 First Census Day
- Feb. 27 Last day to drop classes without appearing on student's record
- Mid-term grade reports due Apr. 3
- Apr. 6 Second Census Day
- Apr. 13-18 Spring Recess
- May 15 Last day to drop semester-length classes without possible penalty grade
- May 25 Holiday Memorial Day
- June 5-11 Final examinations (Day classes)
- June 11 Classes close

## SUMMER INTERSESSION, 1987

- June 22 Summer Intersession begins
- July 3 Holiday - Independence Day
- July 31 Six-week Summer Intersession ends
- Aug. 14 Eight-week Summer Intersession ends
- Aug. 28 Ten-week Summer Intersession ends



D. Robert Stiff President

John H. Greenalch Vice President

#### **INSTRUCTIONAL SERVICES**

Clayton Bowling Director, Basic & Applied Sciences

Dr. Floyd E. Elkins Director, Business/Social Sciences

John B Friesen, Jr. Director, Humanities

Dr. Loretta J. Hergert Director, Instructional Resources

#### STUDENT SERVICES

Ella Turner Gray Director, Special Programs & Services

Jesse Guerrero Registrar

Dr. Classie Foat Director, College Services

#### FROM THE PRESIDENT

I wish to extend a warm welcome to you as you begin your attendance at Cañada College. I urge you to take full advantage of the many educational opportunities this College has to offer—a varied curriculum, a strong instructional staff, and excellent support services. You will be richly rewarded if you take your course work seriously while you are here.

If you have a suggestion as to how we might improve some area of the College's operation, please feel free to pass it on to me or to other members of the staff.

I hope your experience here will be intellectually and personally satisfying.

Robert Stiff President



#### THE COLLEGE

Canada College opened in 1968. Its 131-acre site is located in the western foothills of Redwood City and overlooks the Bay. The college takes its name from Canada Road, which winds its way through the valley to the west of the college; the Spanish word canada means "long valley."

word cañada means "long valley."

Cañada is one of three community colleges in the San Mateo
County Community College District and its primary service area

is the southern portion of San Mateo County.

Instructional offerings cover all of the broad and essential areas of human knowledge, including the arts, sciences, and humanities. Many courses are also offered in occupational subject areas. Courses are offered through a variety of instruc-

tional systems and learning environments.

The College's classrooms are generally small by design and offer an opportunity for students to become personally acquainted with their instructors. Cañada's student services program includes academic and vocational counseling services, financial aids, tutorial assistance, disabled students services, women's re-entry, programs for academically disadvantaged students and a wide range of student activities.

Cañada is a friendly and open campus. Teachers, students and administrators participate in curriculum development, the learning processes and the general campus environment as full voting members of various College committees which provide guidance and assistance to the College Executive Dean.

It is the policy of this District that every class offered, unless otherwise indicated in the official catalog and schedule of classes, shall be fully open to enrollment and participation by any person who meets the academic prerequisites of such class, and who is otherwise eligible for admission to and enrollment in the College.

As required by Title IX of the Education Amendment of 1972 (45 CRF 86) and Title VI, Cañada Community College does not discriminate on the basis of race or sex in admission to or employment in the educational programs and activities which it operates. Inquiries concerning Title IX may be directed to Ms. Ella T. Gray, Director of Special Programs and Services.

# MISSION AND GOALS SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT MASTER PLAN

Mission

The San Mateo County Community College District, recognizing each individual's right to education, is committed to leadership in providing quality education with its community to:

identify and respond to the educational needs of the community;

- provide an environment which enables students to understand their social responsibilities and realize their individual potential;
- encourage the pursuit of lifelong learning in a changing world; and
- maintain a climate of academic freedom in which a variety of viewpoints may be shared.

#### Goals

To fulfill its mission, San Mateo County Community College District has established the following goals. In pursuit of these goals, the overriding concern of the District will be maintenance of quality even at the expense of scope of service. The San Mateo County Community College District shall:

- provide varied general educational opportunities which acquaint students with the broad outlines of human knowledge and experience.
- provide lower-division transfer programs which prepare students for continued education in four-year colleges and universities:
- offer occupational education and training programs directed toward career development, in cooperation with business, industry, labor, and public service agencies;

 offer developmental/remedial education to enable students to develop those basic skills essential to successful completion

of college goals;

 identify and meet community needs not otherwise served by college credit courses by offering self-supporting Community Service classes and activities;

 provide a program of student services to assist students in attaining their educational and career goals; and

 actively implement its policy of affirmative action for underrepresented groups in student recruitment and personnel employment.

In order to fulfill its educational mission and to attain the goals described herein, the San Mateo County Community College District commits itself to effective analysis and evaluation of programs, services, and performance of personnel. It shall plan, organize, and manage its resources to achieve maximum effectiveness, efficiency, and accountability. Participation by the College community in these endeavors is desirable and appropriate.

## ROLE OF THE FACULTY AND STUDENTS

Cañada College is governed by policies approved by the Board of Trustees of San Mateo County Community College District. These policies encourage individuality among the three colleges of the District directed toward the needs and characteristics of the areas they serve.

Cañada College seeks the counsel of its faculty and students through a system of permanent committees and informal consultation. The regular committees are organized under the Academic Senate, which operates through a Governing Council (elected by the faculty). Student members of committees are appointed by the Associated Student Government.

#### **ACCREDITATION**

Cañada College is fully accredited by the Western Association of Schools and Colleges, which is affiliated with the federation of Regional Accrediting Commissions of Higher Education. The College is also approved by the Office of the Chancellor of the California Community Colleges and the Veterans Administration.

## **REVISION OF REGULATIONS**

Any regulation adopted by the administration of Cañada College will be considered an official ruling and will supersede regulations on the same subject which appear in this catalog and other official publications, provided that the new regulation has been officially announced and posted.

## **BOOKSTORE**

Textbooks and supplies may be purchased from the Cañada College Bookstore, open Monday through Friday. Please call 367-1774 for more information.

#### **BUSINESS OFFICE**

The Business Office processes all monies for fees, distributes payroll checks, files insurance claims, maintains records and accounts of student activities. It also schedules events in the cafeteria, Main Theater, and gymnasium.

#### CAFETERIA

The Cafeteria is open for service to students and visitors on campus during school hours—day and evening.

#### COMPUTER CENTER

The Cañada Computer Center, located in the Administration Building, directly below the cafeteria, is open for use by students, faculty and staff daily (Monday through Sunday), and evenings (Monday through Thursday). Check with the Center for the actual hours: 364-1212, Ext. 304 or 430.

The on-campus computer is a DEC PDP-11/44 multi-station, time-sharing minicomputer that was donated to Cañada College by Digital Equipment Corporation. This computer allows up to 30 users to edit and/or run various computer language programs simultaneously. The Computer Center also houses nine independent APPLE and fifteen IBM-PC microcomputers. These microcomputers are used by students and faculty both for microcomputer class applications and for working with computer-assisted-instruction (CAI) in many other classes.

Students may use programs written for their classes, or they may write programs of their own in a variety of languages. The PDP-11/44 computer supports Assembly Language, BASIC, C, COBOL, FORTRAN, and Pascal for both beginning and advanced programming classes. Text editing (i.e., simplified word processing) is also available on the PDP-11/44 computer. Both the APPLE and IBM-PC microcomputers support a very large range of software for various applications. Student assistants are available at all times that the Center is open, to help users interact with the computers and also to answer limited programming and software questions.

In addition, students may use the PDP-11/14 computer, with text editing, to write and edit their reports and/or essays for any class at the College, by signing up for COMP 699ZZ. Students who wish to obtain an account on the PDP-11/44 and/or use the APPLE or IBM-PC computers to further their computer learning outside of a regularly scheduled class may also sign up for COMP 699ZZ.

## **ENGINEERING CENTER**

The engineering center at Cañada College provides advanced laboratory facilities for the transfer engineering program. This center provides Computer Aided Design (CAD) Systems for use by the students in their design class, and in other classes as required. In addition, a number of other software packages are used in conjunction with the APPLE computers to allow students to explore the use of computers in all their engineering classes. The Engineering Center also houses the materials science laboratory for use in ENGR 270—Materials Science.

## MANAGEMENT & TRAINING INSTITUTE

The Management & Training Institute at Cañada College has been extremely successful in meeting the demand from local business and industry in the area of EMPLOYEE TRAINING. The Institute satisfies the requirement for employers to upgrade employee skills, cross-train, and improve employee morale by taking an active interest in education and training of employees. Designed to meet the specific requests of the employer, these

programs may be conducted as college credit classes or as fee-based seminars. The Institute remains totally flexible as to length of training (hours, days, weeks or months) and as to location (employer's site or on-campus).

Classes cover a full spectrum of subjects including computer languages, microcomputer applications, foreign languages, physical fitness, pre-retirement planning, and virtually any other area of training which is needed. Instructors include members of Cañada's credentialed staff, private consultants, and professionals from Bay Area corporations.

Canada can boast of state-of-the-art equipment, a convenient and beautiful location, and modern facilities which include large IBM-PC computer labs, with as many as 21 PCs per room, and a System/36 minicomputer.

In addition to custom-designed classes, the Institute conducts open enrollment weekend workshops on such general topics as IBM-PC applications, and specialized topics in areas such as Interior Design.

The Management & Training Institute's credentialed Director has a broad corporate experience in training. The professional staff of the Institute effectively coordinate all administrative details of course design and implementation.

Please call (415) 364-8229 for further information. Our Director will call on you at no charge to discuss your training requirements.

#### LIBRARY

The Cañada College Library is housed in the westernmost section of the lower floor of the Campus Center. It is reached by an exterior stairway starting on the Cafeteria (third floor) level, passing the Media Center and Computer Center (second floor) and continuing to the Library (first floor).

The Library strives to support the instructional program of the College by providing a wide variety of information sources in print form, by organizing these resources in a comprehensive manner, and by making them easily accessible.

There are three service areas. The Circulation/Reserve book area contains restricted loan material as well as college catalogs. The Reference and Periodical area serves the research needs of students. Shelved there are periodical and newspaper holdings and the indexes, the microfilm collection, as well as a large variety of reference source material. The card catalog provides access to a general collection of some 51,000 volumes arranged on open shelves in the Reading Room. Table and carrel seating for students is provided in this room, which affords a panoramic view of the wooded slopes of Skyline Ridge and is an inviting place for quiet study.

Students who wish to make effective use of library resources and services should investigate the basic skills course listed in this catalog under Library Science.

## MEDIA LEARNING CENTER

The Media Learning Center is located on the second floor of the Campus Center, directly above the Library. The M.L.C. provides an audio-visual laboratory and microcomputer center where students can pursue remedial review, and enrichment learning experiences. The facilities include: audio-visual study carrels, individual video viewing facilities, listening stations, language laboratory, TV rooms for videotaping and group viewing, a faculty recording studio, and a media production room for faculty produced instructional programs. There is a circulating collection of 3,000 phonodiscs and more than 2,000 tapes, cassettes, videotapes and media-kits in a wide range of subject areas. The Center also provides delivery of a variety of AV equipment and films to support classroom instruction.

### OFFICE OF BUSINESS OPERATIONS

The Business Operations Office has responsibility for operation of the College Business Office, security, payroll, central duplicating and PBX mailroom.

#### STUDENT SERVICES

The primary goal of Student Services is to provide support for students so that they will be successful at Cañada College. Student Services is responsible for all non-instructional services, under the general categories of:

- Admissions and Records
- Counseling and Guidance
- Special Services

Admissions and records, transcript requests, financial aids, personal counseling, academic advising, health services, job placement, student government, and special programs, i.e., Disabled Students Program, EXCEL, E.O.P.S., and C.A.R.E., are the responsibility of the directors who report to Student Services. Students are encouraged to see the Vice President with concerns and suggestions for improvement.

#### **PARKING**

All students driving a motor vehicle and parking on campus are required to pay a \$7.50 parking fee for the summer session and \$15 each for the fall and spring semesters. Students may elect to pay a \$.50 per day parking fee.

Parking fees are non-refundable unless an action of the

Parking fees are non-refundable unless an action of the College prevents a student from attending class (for example, permanent cancellation of the class). Only motor vehicles with valid parking permits may park on campus. Parking regulations and permit requirements will be strictly enforced.

Parking will be on a first-come, first-served basis. The permit is not a guarantee of a parking space. The College and the San Mateo County Community College District accept no liability for vandalism, theft, or accidents. Use of the parking facilities is at the user's risk.

#### **TUTORIAL SERVICES**

The Tutorial Services Program strives to provide free individual and group tutoring to any Cañada student needing assistance in his or her course work. Emphasis is placed on increasing the chances of success in a specific course or in educational/vocational goals. Tutors are recruited in a wide range of academic areas and are students who have been recommended or verified by faculty as competent and capable.

Students who need tutoring or wish to tutor others must complete the appropriate application forms in the Tutorial Center, which is located in Building 6, Room 12 (next to the College Library). The Center is open from 9:00 a.m. to 3:00 p.m. Monday through Friday with all tutoring taking place in the Center by appointment.

If you need a tutor or wish to be a tutor, apply at the Tutorial Center or contact Albert Archuleta, Tutorial Coordinator.

## CONTINUING EDUCATION HOURS FOR HEALTH PROFESSIONALS

Cañada College has courses that comply with the requirements of the Board of Registered Nursing for Continuing Education Hours taken by registered nurses, vocational nurses, and nursing home administrators for relicensing. Cañada College will issue a certificate to each licensee as a verification of successful completion of these courses. Courses, lectures, conferences, seminars, and workshops are offered for Continuing Education hours under BRN Provider Number 03180.



The Office of Admissions and Records is designed to help new and continuing students in admission, registration, and student welfare. As a means of fulfilling these responsibilities, the Registrar has responsibility to:

- Determine admission eligibility
- Provide class program registration
- Process transcripts
- Process grades
- Conduct institutional research
- Certify eligibility for the A.A. and A.S. and certificate programs
- Process transfer credits from other colleges

The Registrar is also administratively responsible for the:

- Veteran's Program
- International Student's Program

## ELIGIBILITY REQUIREMENTS FOR ADMISSION OF OF STUDENTS

California Residents

A California resident, for purposes of attendance at a community college, is a person who has resided in the state for more than one year immediately preceding the first day of classes.

Applicants who have immigrant status must reside in California for more than one year after the date stamped on their visa to be considered residents of the state.

Any California resident applying for admission to Cañada College must meet one of the following qualifications:

- Be a graduate of a high school.
- Be a non-high school graduate, 16 or 17 years of age, who has in his/her possession at the time of registration one of the following:
  - Formal certificate from California State Office of Education which indicates the student has passed the High School Proficiency Examination.
  - —G.E.D., California High School Equivalency Certificate, with an average of 55 or higher for all tests.
  - —A formal, written document from the student's high school district indicating he/she is exempted from any further high school attendance.
- Be 18 years of age or older and, in the opinion of the President of Cañada College, be capable of profiting from the instruction offered.
- Be a 9th, 10th, or 11th grade high school student whose admission as a part-time student is recommended by his/her high school principal and approved by the President of the College.

#### Non-resident Students

Out-of-state residents may qualify for admission to Cañada College by meeting the following requirements:

- Be a graduate of a high school.
- Be 18 years of age or older and, in the opinion of the President of the College, capable of profiting from the instruction offered.
- Have an academic record or test scores which indicate a potential for success in a credit program of the College.
- Be a non-high school graduate, 16 or 17 years of age, who has passed the California High School Proficiency Examination or completed the G.E.D. examination series with an average of 55 or more for all tests.

#### Foreign Students

Foreign students may qualify for admission to Cañada College by meeting the following requirements:

- Have completed the equivalent of an American high school education with a "B" (3.0) average.
- Demonstrate sufficient command of English to profit from instruction at the College. A minimum score of 450 on the T.O.E.F.L. is required.
- Present evidence that they have the necessary funds to take care of tuition and all living expenses while attending Cañada College. Tuition is \$88.00 per unit.
- Provide evidence prior to registration of medical and hospitalization insurance coverage or must enroll in the plan provided for foreign students by the insurance carrier approved by the San Mateo County Community College District.

Non-United States citizens who are not on student visas and who reside in San Mateo County may enroll in Cañada College as part- or full-time students. The student must meet the general admission requirements for foreign students, and in addition must present his/her passport with evidence that the passport and visa are dated to cover the semester during which he/she wishes to enroll. All such students will be required to pay non-resident tuition at the rate of \$88.00 per unit.

#### Transfer Students

Students transferring from another college or university may take classes at Cañada College. Students who have been dismissed by the community college most recently attended will not normally be admitted in the semester immediately following this dismissal. They may be admitted in a subsequent semester and will then be subject to the same regulations which apply to dismissed students at Cañada College.

Students in this category may petition the Academic Standards Committee for immediate reinstatement if dismissal has resulted from unusual circumstances.

#### ADMISSION PROCEDURES

Students applying to Cañada College who wish to enroll are required to:

- File a written application for admission on forms supplied by the College.
- Take placement tests and/or specific examinations if required. (See schedule of tests on Application for Admission.)
- For those students wishing to enroll in seven or more units in any one semester, two completed transcripts be mailed directly to Cañada College by the high school of graduation (or the high school last attended), and each college attended.
   If five years have elapsed since high school, no high school transcripts are required.

 For those students wishing to enroll in fewer than seven units in any one semester, no transcripts are required. However, part-time students taking courses toward career preparation or transfer courses to a four-year college or university are required to have transcripts on file for counseling purposes.

#### **Counseling Appointments**

Upon completion of admission requirements, all day students who plan to enroll in seven or more units will meet individually or in small groups with a counselor for assistance in program planning prior to registration. Counseling for evening students will be available during in-person registration. At other times counseling is available by appointment or drop-in Monday through Thursday.

## REGISTRATION PROCEDURES

Computerized registration takes place prior to each semester. Refer to class schedules for procedures.

#### **Unit Load Limitations**

A normal class load is 15 units; students enrolling in 12 or more units are considered full-time. Students are prohibited from taking more than 19 units without special authorization from their counselor.

#### Fees

All students enrolling in courses in any California Community College will be required to pay \$5.00 per unit (.5 — 5.5 units) or a flat fee of \$50.00 (6.0 or more units).

#### Fees Per Semester

- Enrollment Fee: \$5 per unit if taking fewer than 6 units
   \$50 if taking 6 more more units
- Drop Fee: \$10 per class dropped after September 19 (fall semester) or February 17 (spring semester), or after 12% of a short course. \$20 maximum.
- Non-resident or Foreign Student Tuition: \$88.00 per unit
- Parking Permit required of all students parking on campus: \$15 per semester \$7.50 summer session or \$.50 per day
- Books and Supplies: \$168 per semester (approximate figure)
- Returned Check Fee: \$5 per returned cancelled check. Enrollment fees and tuition are due prior to the completion of registration. There is a financial aid program at Cañada College which is dedicated to the concept that no individual be denied an education solely for financial reasons. Additional information on financial aid may be found under Financial Aid and Scholarship.

#### **Refund Policy**

Enrollment fees shall be refunded in accordance with the following guidelines:

 A student who cancels registration on or before the last day to add semester-length classes shall be entitled to a full refund less a \$10 processing fee.  A student enrolled exclusively in a short course or courses who cancels his/her registration before the completion of 12% of the class shall be entitled to a full refund less a \$10 processing fee.

(Students will be charged the \$10 processing fee only one time per semester, regardless of the number of transactions.)

Non-resident or foreign student tuition payments shall be refunded in full or in part in accordance with the following guidelines for semester-length classes:

- A student shall be entitled to a full refund if tuition has been collected in error.
- A student who cancels his/her registration prior to the beginning of classes or who officially withdraws from the college prior to Friday of the fourth week of any semester, shall be eligible for a full refund, less a \$50 processing fee.
- A student who officially reduces his/her program prior to Friday of the fourth week of any semester shall be eligible to receive a full refund for the units dropped.
- A student who officially withdraws from the college or reduces his/her program on or after Friday of the fourth week of any semester shall not be eligible for a refund. Exceptions may be authorized by the Vice President in cases of unique or extraordinary circumstances beyond the student's control.
- A student who officially withdraws from Summer Session courses or from short courses shall be eligible for a full refund, less a \$50 processing fee, if registration is cancelled prior to the beginning of classes or prior to the completion of 30% of the period of instruction. Thereafter, the student shall not be eligible for a refund except as may be authorized by the Vice President in cases of unique or extraordinary circumstances, beyond the student's control.

Parking Fees are non-refundable unless the College cancels the student's entire class program.

Refunds are not issued automatically. The student must complete a refund request form and submit proof of payment and appropriate withdrawal forms to the Office of Admissions and Records.

Refunds must be requested in writing at the time of withdrawal. All refunds must be requested within the fiscal year the fees were paid.

#### Program Changes

Once registration has been completed, the student's program may not be changed unless an add/drop slip is obtained from the student's counselor or the Office of Admissions and Records and the prescribed change-of-program procedure is completed by the student.

A student may not add a new semester-length class after the tenth day of the semester except by written permission of the instructor and the endorsement of the Registrar.

#### Programs With Overlapping Times

Students may not register in two classes which meet at the same time or have overlapping times. Exceptions to this rule may be approved under extraordinary circumstances. Approval requires rational justification and a documented plan outlining how the student will make up the hours in the class missed.

## WITHDRAWAL POLICY

Any student withdrawing from a class must follow established College procedures. The following include important deadlines for withdrawal and explain the relationship between withdrawal and the assignment of a grade by the instructor:

- A student may withdraw from a semester-length class during the first four weeks of instruction and no notation will be made on the student's academic record. In courses of less than a regular semester's duration, a student may withdraw prior to the completion of 30% of the period of instruction and no notation will be made on the student's academic record.
- Thereafter, a student may withdraw from a semester-length class, whether passing or failing, at any time through the last day of the fourteenth week of instruction and a "W" grade shall be authorized after the instructor has been informed. In courses of less than a regular semester's duration, a student may withdraw prior to the completion of 75% of the period of instruction and a "W" grade shall be authorized after the instructor has been informed. A state-mandated drop fee of \$10.00 for each class dropped will automatically be imposed (\$20 maximum).
- The academic record of a student who remains in class beyond the time periods set forth above must reflect an authorized symbol other than "W." However, after the end of the fourteenth week (or after 75% of the period of instruction in courses of less than a regular semester's duration), withdrawal may be authorized in the case of extenuating circumstances. Extenuating circumstances are defined as verified cases of accident, illness or other circumstances beyond the control of the student. In such cases, the student must submit a petition in accordance with established College procedures and must consult with the instructor. Approved withdrawal, under the conditions set forth, shall be recorded as a "W." The \$10.00 drop fee will be imposed for each course dropped (\$20 maximum).
- Any student failing to follow the established withdrawal procedures may be assigned an "F" grade by the instructor.
- Students enrolled only in evening classes should consult the Office of Admissions and Records.
- This withdrawal policy applies to all students who have enrolled in and actually attended at least one class.



#### UNITS OF WORK AND CREDIT

A "unit" of college credit normally represents one hour weekly of lecture or 3 hours of laboratory, or similar scheduled activity, during one semester.

## ACADEMIC RECORD SYMBOLS AND GRADE POINT AVERAGE

Grades from a grading scale shall be averaged on the basis of the point equivalencies to determine a student's grade point average. The highest grade shall receive four points, and the lowest grade shall receive 0 points, using only the following evaluative symbols:

Symbol	Definition	Grade Point
A	Excellent	4
В	Good	3
C	Satisfactory	2
D	Passing, less than satisfactory	1
F	Failing	0
CR	Credit (at least satisfactory: C or better — units awarded not counted in GPA)	
NC	No credit (less than satisfactory of failing — units not counted in GP/	
AND RESIDENCE AN		

The GPA (grade point average) is determined by dividing the total number of grade points earned by the total number of units attempted.

The following non-evaluative symbols are used at Cañada College:

#### • I - Incomplete

This symbol is used in case of incomplete academic work for unforeseeable, emergency and justifiable reasons. Conditions for removal shall be set forth by the instructor in a written record which also indicates the grade assigned in lieu of removal. The student will receive a copy of this record and a copy will be filed by the Registrar. A final grade will be assigned by the instructor when the stipulated work has been completed and evaluated. In the event that the work is not completed within the prescribed time period, the grade previously determined by the instructor will be entered in the permanent record by the Registrar.

An "Incomplete" must be made up no later than one year following the end of the term in which it was assigned. Established college procedures may be utilized to request a time extension in cases involving unusual circumstances.

The "I" shall not be used in the computation of grade point average.

#### • IP - In Progress

This symbol is to be used in the student's permanent record to confirm enrollment and to indicate that the class extends beyond the normal end of the term. It indicates that work is "in progress" and that unit credit and a grade will be assigned when the course is completed.

If a student enrolled in an open-entry, open-exit course is assigned an "IP" grade and does not re-enroll for the subsequent attendance period, the instructor will assign an evaluative symbol to be recorded on the student's permanent record for the course.

The "IP" shall not be used in the computation of grade point average.

#### • RD - Report Delayed

This symbol is used only by the Registrar for the purpose of indicating that there has been a delay in reporting the grade due to circumstances beyond the student's control. It is to be replaced by a permanent symbol as soon as possible.

The "RD" shall not be used in the computation of grade point average.

#### • W - Withdrawal

(See Withdrawal Policy on previous page)
• H—Instructor failed to supply a grade.

## CREDIT/NO CREDIT OPTIONS

Each division of the College may designate courses in which a student may elect to receive a letter grade or be graded on a "Credit/No Credit" basis.

Grade option courses allow student to explore various fields of study and to broaden their knowledge, particularly outside their major field, without jeopardizing their grade point average. Courses in which such an option exists will be so designated by the Division Director in consultation with appropriate members of the division faculty.

Students electing a "Credit/No Credit" option must submit the appropriate form to the Office of Admissions and Records within the first 30% of the term. Changes will not be permitted after this time.

The use of courses graded on a "Credit/No Credit" basis to satisfy major or certificate requirements must be approved by the Division Director in consultation with appropriate members of the division faculty. A maximum of 12 units toward an Associate degree or 6 units toward a certificate may be applied from courses in which the student has elected a "Credit/No Credit" option.

Additionally, each division of the College may determine certain courses in which all students are evaluated on a "Credit' No Credit' basis only. These courses are exempt from the above 12/6 unit limitation.

Four-year colleges and universities vary widely in the number of units of "Credit/No Credit" courses they accept. Students should consult the catalog of the college to which they may transfer for its regulations in this regard.

#### **GRADE REPORTS**

Progress reports are available from the faculty at midsemester. The mid-term grade report is not made a part of a student's permanent record; it is for information purposes only. Following final examinations at the end of the semester, the student is sent the report of his/her final semester grades, which become a part of his/her permanent record.

## **CHANGE OF GRADE**

An earned grade of A, B, C, D, F, W, CR, NC (or H) may be changed by the instructor within one year due to a "clerical error" on the part of the instructor. Grades cannot be changed on the basis of a student completing course work subsequent to the assignment of the final grade. (See Academic Record Symbols and Grade Point Average.)

## A.A./A.S. DEGREE AND CERTIFICATE APPLICATIONS

The Office of Admissions and Records processes all petitions and determines eligibility for the "Associate in Arts" and "Associate in Science" Degrees and any certificate programs offered at Cañada College. Eligible graduating candidates should file an application for the appropriate degree and/or certificates and should:

• have completed at least 54 or more semester units to be in candidate status.

• arrange that all transcripts from other colleges be on file with the Office of Admissions and Records prior to the specified deadline (see calendar of events).

• request from the Office of Admissions and Records an evaluation of all college transcripts.

For more detailed eligibility requirements see section on Program Planning.

#### **TRANSCRIPTS**

Official transcripts will be sent to employers, colleges and other institutions upon written request by the student. Only courses taken at Cañada College will appear on the transcript; transcripts from high schools and other colleges will not be forwarded. The first two transcripts are free. Each additional transcript costs \$1.00. The college will not normally issue official transcripts directly to a student. Requests are normally

processed within 7 working days.

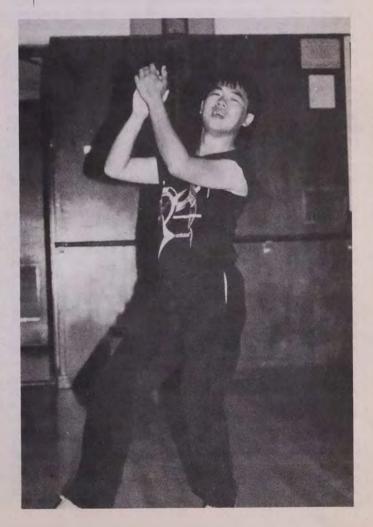
Transfer students who wish to have their academic records from other accredited institutions within the United States evaluated by the Office of Admissions and Records and have those units placed on their permanent record at Cañada College must petition to do so. Upper-division credits completed at a four-year college or university will not be accepted or counted toward an A.A./A.S. Degree or Certificate at Cañada College. Course work completed at a college or university outside the United States will be considered for inclusion on a transfer student's record at Cañada College only after the transcript from the foreign institution has been evaluated by an approved agency which is able to provide a translation of the transcript, with subject breakdown and grades. See the Registrar for the names of approved agencies.

## SCHOLASTIC HONORS

A Dean's List of Students who achieve academic honors is published at the end of each semester containing the name of each student who has completed 12 units or more of work for a letter grade during that semester at Cañada College with a grade point average of 3.3.

Academic honors are awarded at graduation to students who have attained a 3.3 cumulative grade point average. High honors are awarded to students who have attained a 3.5 (or

better) average.



#### **OPEN ENROLLMENT**

Every course offered at Cañada College (unless specifically exempted by legal statute) is open for enrollment and participation by any person who has been admitted to the College and who meets the prerequisites of the course, provided space is available.

#### **COURSE REPETITION**

#### A. Repeat for Credit

The Board of Trustees of the San Mateo County Community College District has adopted a policy (District Rules and Regulations, Section 6.12) which permits a student to repeat certain courses for credit a maximum of three times (total of four class enrollments). These courses require increasing levels of student performance or provide significantly different course content each subsequent semester. Such courses will be designated as "may be repeated for credit" in the course description. Courses which are not so designated may not be repeated under this policy. Further information on this policy is available from your College counselor.

#### B. Grade Alleviation

A student who has received a grade of D, F, or NC in a course taken at a college of the San Mateo County Community College District may, with authorization, repeat the course for purposes of grade alleviation. Under unusual circumstances, a student may petition the Vice President for permission to repeat a course more than once. On petition to the Office of Admissions and Records, the student may have the grade of the repeated course used in computation of the grade-point average. The original grade will remain on the transcript, but will no longer affect the grade-point average. Course repetition completed at colleges of the San Mateo County Community College District will be honored; course repetition involving work completed at a non-district institution may be honored. Students may apply for such consideration to the Office of Admissions and Records. In no case will the unit value of a course be counted more than once. Courses in which the student has received grades other than those of D, F, or NC are not subject to the provisions of this policy.

#### C. Special Circumstances

Under special educationally justifiable circumstances, repetition of credit courses other than those for which substandard work has been recorded may be permitted. The student must obtain prior written permission before such course repetition will be authorized. Normally, a student may repeat such a course only once. Under unusual circumstances, a student may petition the Vice President for permission to repeat a course more than once. Grades awarded for courses repeated under this provision shall not be considered in calculating the student's grade point average and in no case will the unit value of the repeated course be counted more than once.

### ATTENDANCE REGULATIONS

Regular attendance in class and laboratory sessions is an obligation assumed by every student at the time of his/her registration. By being absent from class, the student misses both the content of the particular session and the continuity of the course as developed in a single period of work. When a student's failure to attend class places his or her success in jeopardy, the instructor may drop the student from the class.

The following regulations regarding attendance have been approved by the Board of Trustees and will be enforced:

A student may be dropped from class whenever his or her total hours of absence from class equal twice the number of hours the class meets in one week. Absence means non-attendance for illness, participation in school-sponsored activities or personal emergency.

Students dropped from any class because of this regulation may appeal in writing to the Student/Faculty Appeals Committee within five school calendar days of such drop if they feel there are extenuating circumstances beyond their control which justify their remaining in class. Students making such appeals may, with the permission of the instructor, remain in class until the decision of the Student/Faculty Appeals Committee is reached. The Student/ Faculty Appeals Committee will make a recommendation to the instructor after considering such an appeal. In all cases the decision of the instructor is final.

Students dropped for non-attendance are responsible for any and all drop fees levied.

### EMERGENCY LEAVE OF ABSENCE

A student who finds it necessary to withdraw from all enrolled classes at any time after registration must obtain a petition for permanent leave of absence. This petition may be obtained from the Office of Admissions and Records or the Counseling Center. It is the student's responsibility to complete the petition process. The permanent leave of absence shall only be used when circumstances beyond the student's control force a complete withdrawal from all classes. A drop fee of \$10 will be imposed for each class dropped (\$20 maximum).

A student absent 5 days or more with a medical problem should notify the Health Center. Your instructors and counselors will be given the information.

## **ACADEMIC RENEWAL POLICY**

A maximum of two semesters and one summer session of substandard work (less than a 2.0 grade point average), not reflective of the student's present scholastic level of performance, may be alleviated and disregarded in the computation of grade point average under the following conditions:

 A period of at least three years must have elapsed since the work to be alleviated was completed.

The students seeking alleviation must have completed 9 units
of work with a 3.5 cumulative grade point average, or 15
units with a 3.0 cumulative grade point average, or 21 units
with a 2.5 cumulative grade point average, or 24 units with a
2.0 cumulative grade point average since the work to be
alleviated was completed.

 A semester or quarter is defined as all work attempted during a single academic term. The terms need not be consecutive.

 The substandard work being alleviated may have been completed at any college or university; however, the work upon which the application for alleviation is based must be completed at one of the district colleges.

The academic renewal policy will ordinarily be applied only when alleviation of prior work is necessary to qualify a student for admission to a program or transfer to another institution or for completion of a certificate program, or for graduation from the college.

Determination of the applicability of this policy will be made only following formal application to the Office of Admissions and Records.

When academic work is alleviated, the permanent record shall be properly annotated in a manner to insure that all entries are legible and that a true and complete record is maintained.

## GRADE-POINT DEFICIENCY

The Academic Standards Policy of Cañada College is based on a cumulative grade point average of C, the minimum standard

of progress toward graduation or transfer.

All units and grade points are on a cumulative basis. At all times, a student must maintain a cumulative grade point total that is double the total units undertaken (C average). (Example: If a student undertakes 12.5 units in one semester and 15.5 in a second semester, his or her cumulative units are 28, requiring a grade point level of 56.)

Any grade point total less than twice the attempted units is

regarded as deficient.

Cañada College Credit/No Credit courses will not affect a student's grade point deficiency.

## STANDARDS FOR PROBATION

- A student will be placed on academic probation under the following criteria:
- Academic probation based on grade point average: A student who has attempted at least 12 semester units, as shown by the official cumulative record, shall be placed on academic probation if the student has earned a grade point average below 2.0 in all units which were graded on the basis of the grading scale described above.
- 2. Academic probation based on failure to maintain satisfactory progress: A student who has enrolled in a total of at least 12 semester units, as shown by the official cumulative record, shall be placed on academic probation when the percentage of all units in which a student has enrolled for which entries of W, I, and NC are recorded reaches or exceeds 50 percent.
- The two probationary criteria described above will be applied in such a manner that a student may be placed on probation under either or both systems, and subsequently may be dismissed under either or both systems.
- A semester in which a student completes an official "Leave of Absence" will not be included in the tabulation of 2. above.
- A probationary student may petition the Academic Standards Committee, in accordance with college procedures, for removal of his/her probationary status if it has resulted from unusual circumstances beyond the student's control.

## REMOVAL FROM PROBATION

 A student on academic probation on the basis of grade point average shall be removed from probation when his/her cumulative grade point average is 2.0 or higher.  A student on academic probation on the basis of failure to maintain satisfactory progress shall be removed from probation when the percentage of units in this category no longer exceeds 50 percent.

## STANDARDS FOR DISMISSAL

 A student in probationary status shall be subject to dismissal if in any two subsequent semesters either or both of the following criteria are applicable:

The student's cumulative grade point average is less than 1.75 in all units attempted.

The cumulative total of units in which the student has been enrolled for which entries of 'W,' 'I,' and 'NC' have been recorded reaches or exceeds 50 percent.

 Normally, a dismissed student must remain out of day and evening classes for one semester before petitioning the Academic Standards Committee for reinstatement.

 A dismissed student may present a written appeal to the Academic Standards Committee requesting immediate reinstatement if dismissal has resulted from unusual circumstances. A registered student making such an appeal should remain in classes until the decision of the Academic Standards Committee is made.

#### STUDENT NOTIFICATION

The grade reports mailed at the end of each semester will contain a printed notation if the student is on PROBATION or in DISMISSED status. Once a year, at the end of the Spring semester, a letter will be sent to all students who are on PROBATION. Each semester a letter will be sent to all students who are in DISMISSED status.

## STUDENT GRIEVANCES

Students who feel that they have been unfairly treated by the misapplication of College regulations, or in any respect by a member of the College staff, are encouraged to discuss the matter with a counselor. If the problem at issue is not satisfactorily resolved, they are encouraged to bring the matter to the attention of the Vice President. The Vice President will assist the student to try to resolve the matter informally. If this does not resolve the matter, the student may file a formal grievance.

## ADVANCED PLACEMENT CREDIT

Students who have taken the Advanced Placement Test in English and who have scored 3 may receive credit for English 110. Those who have scored 4 or 5 will receive credit for English 100 and 110. Test scores and a written petition for this credit must be filed in the Office of Admissions and Records.

## CREDIT BY EXAMINATION

Credit may be earned by examination provided:

The student is registered at the College and in good standing, with a GPA of 2.0 or better.

The student can demonstrate that he/she is qualified, through previous training or instruction, to successfully complete such examination.

The course has been so designated by the Division Director in consultation with appropriate members of the division faculty.

The course for which credit is desired is listed on the approved College curriculum list.

The examination has been approved or prepared, administered and graded by faculty and other proper authorities of the College.

• A maximum of 12 units toward an Associate Degree or 6 units toward a certificate may be earned by courses for which credit has been earned by examination.

 Credits earned by examination cannot be used to satisfy the 12 unit residence requirement for the Associate Degree or Certificate of Completion.

• The student's academic record shall be clearly annotated to reflect that credit was earned by examination.

 A student may challenge a course for credit by examination only one time.

#### HOLDS ON STUDENT RECORDS

Holds will be placed on students' records by the Office of Admissions and Records for fees and any other financial obligations owed to the College. Cañada College will not allow a student to re-register in the College nor will the College forward transcripts or any other records to other institutions for those students with holds on their records. Degrees and certificates will also be held until all outstanding fees have been paid or cleared.

## TESTING POLICY STATEMENT

**ENGLISH:** 

An English placement test is required of students who wish to enroll in any English, reading, or writing class. (Exceptions: English 110, 161, 162, and 165.) Students will be exempted from taking the English test only if they present evidence of any of the following:

A score of 150 or above on the CSU English Placement Test. Scores of 3, 4, or 5 on either the Language and Composition or the Composition and Literature tests of the College Board

Advanced Program.

A score of 600 or above on the College Board Achievement

Test in English Composition with Essay.

- A score of 500 or above on the verbal section of the College Board Scholastic Aptitude Test (SAT-Verbal) and 50 or above on the TWSE
- A score of 21 or above on the ACT English Usage Test. An acceptable 3-semester-unit of 4-quarter-unit college English course with a grade of C or better.

Normally, exemption by means of numbers 1-5 allows a student to enroll in English 100.

NOTE: During the first two weeks of class, a student's initial placement will be subject to confirmation by means of a writing sample.

#### **MATHEMATICS:**

Students enrolling in any mathematics course (including Business Mathematics) must take the Mathematics placement test. This requirement will be waived for students who have passed prerequisite college courses with a grade of C or higher at Cañada College, Skyline College, or College of San Mateo.

### PRIVACY RIGHTS OF STUDENTS ANNUAL NOTIFICATION

The Family Educational Rights and Privacy Act (Section 438, Public Law 93-380), as amended, requires educational institutions to provide: access to official educational records directly related to the student; an opportunity for a hearing to challenge such records on the grounds that they are inaccurate, misleading, or otherwise inappropriate; that the College must obtain the written consent of the student before releasing personally identifiable information about the student except to those persons and agencies specified by the Act; and that these rights extend to present and former students of the College.

 Education records generally include documents and information related to admissions, enrollment in classes, grades and

related academic information.

• The Registrar, Building 8, Room 208, has been designated

Records Officer, as required by the Act.

 Education records will be made available for inspection and review, during working hours, by presently and formerly enrolled students, within 5 days following completion and filing of a request form with the Records Officer.

• If a student wishes to challenge any information in the educational record, the student shall review the matter with the Records Officer. During the informal proceedings the Records Officer may make such adjustments or changes not constituting interference of integrity of professional entries.

• If these informal proceedings do not settle the dispute with the student's records, the student may submit a request in writing to the Designated Officer, the Vice President on forms provided by that office. The Designated Officer will then assign the matter within 10 school days to a Hearing Officer.

• The Hearing Officer will set a date for the hearing, at the conclusion of which he will render his decision to the President of the College who will make the final decision on

what action is to be taken

• The Act provides the College may release certain types of Directory Information, unless the student submits in writing to the Records Officer that certain or all such information not be released without his/her consent. Directory Information at this college includes: (1) student name and city of residence, (2) participation in recognized activities and sports, (3) dates of attendance, (4) degrees and awards received, (5) the most recent previous educational agency or institution attended (6) height and weight of members of athletic teams.

· A copy of the College Policy, The Family Education Rights and Privacy Act, Section 438 (P.L. 93-380) and other pertinent information is available for review and inspection in the Records Officer's office, Building 8, Room 208, during normal

working hours.

### **FINANCIAL AID**

The financial aid program at Cañada College is dedicated to the concept that no individual should be denied an education solely for financial reasons. Any student applying for admission to the College who has a financial need for assistance is urged to apply for aid.

The Financial Aid Office administers a program of grants, scholarships, loans, and work-study programs which may be awarded to qualified students. We assist and encourage students to apply for California State Scholarships, College Opportunity Grants, Vocational Training Grants, and all other state and local awards.

Awards are based on need and availibility of funds; determination of need is based upon a careful analysis of family income and assets, liabilities, number of children, medical expenses, etc. Each application is evaluated on an individual basis with all special and extenuating circumstances taken into consideration.

Students are advised that determination of eligibility is approximately an eight-week process from the time the application is determined complete. Students are strongly encouraged to observe application deadlines. Applications received after the established deadline will be considered subject to the availability of funds.

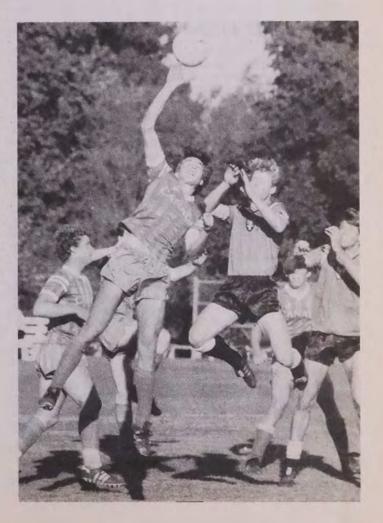
For detailed information regarding specific assistance programs, students should go to the Financial Aid Office, Bldg. 5, Room 207.

#### **SCHOLARSHIPS**

The San Mateo County Community College District Foundation administers funds from private sources which are available to Cañada students as scholarships and grants.

Cañada College provides a scholarship program to recognize and honor outstanding achievement and to provide financial assistance to students in furthering their academic pursuits. A limited number of scholarships, ranging from \$100 to \$500, are available to Cañada students. All applicants for scholarships will be considered for the general scholarship program. These awards are based on stated criteria of the donor(s), which include demonstrated academic achievement and promise and financial need, and are given individually or through Cañada's Scholarship Committee. This Committee meets each Spring to review applications and select recipients for the following school year.

Requests for applications and information should be directed to the Vice President's Office.



# 16 STUDENT OBLIGATIONS

#### **CONDUCT**

The principle of personal honor is the basis for student conduct. The honor system rests on the sincere belief that the college student is mature and self-respecting, and can be relied upon to act as a responsible and ethical member of society. Each individual has the obligation of knowing and upholding College rules.

Regulations governing student conduct are subject to change by the Board of Trustees and, when applicable, by local, state and federal statutes. These rules are given in the Student Guide.

Social or other functions using the name of the College are thereby identified as College functions and become subject to the same high standards of conduct and of supervision, whether conducted on or off the campus.

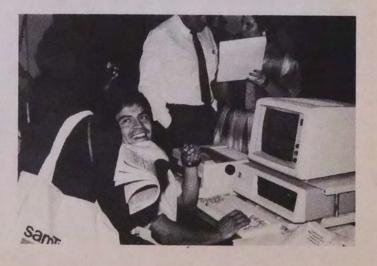
Social or other functions for which no patrons are listed from the membership of the faculty are not school functions. Further, no off-campus organizations may use the College name or imply College sponsorship in any publicity or other information.

#### SECRET ORGANIZATIONS

Sororities and fraternities and other secret organizations are banned under the Education Code of the State of California.

#### **FINES AND FEES**

Fines are assessed for failure to comply promptly with library and other campus regulations, and students are required to pay for careless or unnecessary damage to College property. Students delinquent in their financial obligations to the College will not receive grade reports or other records of their work until such delinquencies have been adjusted to the satisfaction of the College authorities. Students owing the College any money will not be permitted to register until all debts are paid.



Special Programs and Services provides services which are designed to serve the unique requirements of those students with particular needs not met through our regular programs. Special Programs and Services recognizes that human personality has many facets and that individual students have many different needs. While no educational program can be all things to all students, Special Programs and Services strives to create an environment which will: (1) Promote educational experiences leading to the realization of personal goals; (2) Develop a sense of responsibility to oneself and to others; (3) Meet the educational and cultural needs of students; and (4) Facilitate an understanding of the past, identification with the present, and competence to meet the future.

Special Programs and Services is where you can begin to unravel your needs, and seek solutions to your educationally-

related problems.

C.A.R.E. Program
Disabled Student Program
EXCEL
Extended Opportunity Programs and Services (EOPS)
Housing
Lost and Found
Student Activities
Student Government
Veteran's Affairs
Vocational Educational Services
Women's Re-entry to Education

## COOPERATIVE AGENCIES RESOURCES FOR EDUCATION PROGRAM (C.A.R.E.)

C.A.R.E. is a unique educational program geared toward the welfare recipient who desires job-relevant education.

The C.A.R.E. Program is a cooperative effort involving Cañada College, the County Social Services and Employment Development Departments.

C.A.R.E. Support Services include child care, transportation allowances, books, tutoring, counseling, meal allowances and other related services.

Eligible Applicants:

Single, head of household

A.F.D.C. recipient (for a minimum of one consecutive year)

• At least 18 years old

Must pursue vocational training

Any further inquiries regarding the C.A.R.E. Program should be directed to Ella Turner Gray, 364-1212, Ext. 263.

## **DISABLED STUDENT PROGRAM**

The Disabled Student Program offers a wide range of services to students with varying disabilities, including physical and learning disabilities. The program encourages the active participation of disabled students by serving as an information center, counseling source and academic referral. Any student with severe mobility or health impairment is encouraged to seek the services of the Disabled Student Program. Through supportive services, an individual can meet his/her academic, social and personal goals while attending Cañada College. Please stop by the Disabled Student Office for more information (Bldg. 3, Room 103).

Some of the programs include:

Adaptive P.E. Program: an individualized approach to Adaptive P.E., as well as offering classes in Weight Training, General Conditioning, and Aquatics for the Disabled.

The focus of the Adaptive P.E. Program is to promote optimum physical fitness by providing the students with the proper knowledge and skills for their lifelong fitness pursuits. Based upon physicians' recommendations, each student is given an individualized exercise program tailored to his/her specific physical abilities and limitations. Improvements in muscular strength, flexibility, balance, coordination, and cardiovascular endurance are the primary goals of the general conditioning classes. Emphasis is also placed upon attaining enjoyable, positive experiences to enhance self-image and social interaction, with independence and mainstreaming (where possible) as

a long range goal.

Please call Barbara McCarthy at 364-1212, Ext. 473 or 490 for

more information.

Learning Disabilities Program: designed to meet the needs of students with particular learning disabilities. After assessment, an IEP (Individualized Educational Plan) is written and developed with each student. Tutorial assistance is provided, and vocational goal-setting is a top priority for the program. Job skills and career development will be ancillary services to the L.D. population, and special equipment and materials will be available to students. Adults with possible learning disabilities or diagnosed learning disabilities should contact the Learning Disabilities Program at 364-1212 Ext. 237, Glory Bratton.

Supportive Services:

Individualized counseling, vocational referral and information

Elevator keys and parking permits

Coordination of services with high schools, agencies and the California Department of Rehabilitation

· Readers and Note-Takers

 Audio-visual equipment available—tape recorders, tapes and Lexicon, adapted voice-actuated computer equipment for those students interested in the Computer Information Program

Special equipment available for the visually impaired student:

Braille slates, paper and canes

Interpreters for the deaf and hard of hearing

Tutoring: individualized tutoring available for students in need of special assistance in academic classes.

Disabled Student Union: an active social and advocacy organization to meet the particular needs of disabled students—a great opportunity to meet other students in the program.

Any further inquiries regarding the Disabled Student Program should be directed to Jane A. Hetrick, Program Specialist for the Disabled (364-1212, Ext. 490).

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## **EXCEL PROGRAM**

EXCEL is designed to help minority students work towards a degree, train for a career or develop skills. It also aims to instill students with a sense of identification and to prepare them for assuming responsible positions in their communities and in a larger society.

EXCEL offers supportive services for students' academic

needs.

EXCEL IS A SPECIAL OPPORTUNITY. JUST FOR YOU IF YOU HAVE:

· A desire to learn.

Willingness to work hard.

A commitment to being at Cañada.

 A desire to share ideas, feelings, and special talents with others.

You qualify if:

- You are at least 18 years old
- · Have a high school diploma

8:00 a.m. - 4:30 p.m. Monday - Friday, Bldg. 6, Room 13 For further information regarding EXCEL, call 364-1212, Ext.

## **EXTENDED OPPORTUNITY** PROGRAMS AND SERVICES (EOPS)

EOPS is a program for economically disadvantaged students. California Community Colleges are required by law to establish programs and services directed to the identification, recruitment, retention, and intellectual and vocational stimulation of students affected by economic, social or language disadvan-

EOPS is designed to help students work towards an A.A. or A.S. degree, train for a career or transfer to a four-year university. It also aims to instill students with a sense of identification and to prepare them for assuming responsible positions in their communities and in a larger society.

EOPS provides:

- Financial assistance in the form of grants
- Books
- Meal ticket program
- Transportation
- Tutoring
- · Help in applying for financial aid
- Transfer assistance
- Counseling
- Guidance Classes
- Basic Skills Classes
- Outreach
- Peer Counselors

You qualify if:

- You are a high school graduate or are age 18 at the time of
- You meet the state's definition for income.

For information, contact: Ella Turner Gray 364-1212, Ext. 263, Bldg. 8, Room 211.

## HOUSING

The Office of Special Programs and Services, Bldg. 8, Room 211, maintains a housing file for use by Cañada students. Most of these listings are rooms in private homes; a few are available on the basis of work in exchange for room and board. All arrangements are made between the owner and the student. Dormitories or college-sponsored housing facilities are not available.

Contact: Dolores Hicks, 364-1212, Ext. 263, if you have a room or apartment to rent.

#### LOST AND FOUND

If it's been lost, chances are your belongings will turn up in the Special Programs and Services Office. Items left in any of the campus buildings are brought to the office and held for 30 days.

You might also put a notice on the bulletin boards. If your lost item is really valuable, you may put an ad in the school newspaper or the weekly Bulletin.

Contact: Dolores Hicks at 364-1212, Ext. 263, or check with her in Bldg. 8, Room 211, for lost or found articles.

## STUDENT ACTIVITIES AND ORGANIZATIONS

To gain the most from College life, students are encouraged to participate in the activities program and College clubs, which offer diversified opportunities for making both social and educational contacts.

The Office of Special Programs and Services maintains a list of

active clubs and organizations

Student Government: All students enrolled at Cañada College are members of the Associated Students of Cañada College (ASCC). The elected students are the official voice of students on campus: President, Vice President, and ten Senators. They keep students informed about issues on campus, administer student association monies, and represent student interests in the College's governing committees.

Student government is a unique educational opportunity to learn by doing in the world of college governance. It is hard and time consuming work, but students have often testified that it was the most valuable learning experience they had at college,

both educationally and socially.

The student government operates under the provisions of the State Education Code and the regulations of the Board of Trustees and the College. It is a vehicle through which students can bring effective change to their college.

Come to the Office of Special Programs and Services if you are interested in becoming a senator or participating in student

government, Bldg. 8, Room 211.
Student Publications: The Long Valley Gazette provides full coverage of activities on campus and offers invaluable experience to journalism students. The college newspaper is primarily student-controlled.

The Student Guide contains information about student organizations, services of the College, College rules, student rights, student disciplinary due process procedures, and the College's staff and governance structure.

Athletics: Cañada College sponsors sports within the Golden Gate Conference for the benefit of those students interested in

team competition.

Cañada College adheres to the California State Athletic Code and the Golden Gate Conference eligibility rules and regulations. Final decisions rest with the Golden Gate Conference Commissioner or the California State Athletic Committee.

The following basic principles pertain to all matters of

- eligibility: No student may represent his or her college in any athletic contest unless he or she is enrolled in and is passing at all times a minimum of 12 units of work, and these units can be in any subject matter area including physical education.
- · Courses may be repeated and will count towards the minimum 12 units of work required for athletic eligibility.
- Any student desiring athletic eligibility should contact the Director of Athletics.

Intramural Activities: The Physical Education Department, in cooperation with the Student Council, offers a wide range of Intramural Activities for men and women that include volleyball, basketball, softball, tennis, soccer, dance, badminton, bicycling, and weight conditioning.

Additionally, some P.E. activities classes schedule sports days

with neighboring community colleges and universities.

Performing Arts: Cañada College offers the following performance groups for your participation: A Cappella Choir, College Singers, Peninsula Master Chorale, Orchestra, San Mateo County Symphony Orchestra, Chamber Orchestra, Musical Theatre, Instrumental Ensemble, and numerous drama presentations, including both faculty and student-directed shows. Interested persons should contact the Humanities Office.

Foreign Travel and Study: A file of current overseas programs for study and travel is kept in the Career Center in Building 5. Check with the Coordinator of Counseling in Building 5, room

214, for further information.

#### **VETERANS' AFFAIRS**

The California Board of Education has qualified Cañada College to certify veterans as students under Chapter 34, Chapter 35 (veterans' dependents), Chapter 31 (rehabilitation), Chapter 106, and VEAP recipients. All students, except those under Chapter 31, buy their own books and supplies. Those interested in attending Cañada under any of these chapters should contact the Veterans Administration Office, 211 Main St., San Francisco, or 590 Hamilton Street, Redwood City, to determine eligibility for benefits. After eligibility is determined, the veteran should bring his Certificate of Eligibility and receipt of registration to the Office of Admissions and Records for processing.

The State of California provides a program for children of veterans who are deceased or disabled from service-connected causes. Applications should be made to the California Department of Veterans Affairs at 350 McAllister Street in San

Francisco.

Eligible veterans have 10 years from the date of separation

from active duty to use their educational benefits.

The Office of Veterans' Affairs is located in the Office of Admissions and Records in the Administration Building (Bldg. 8). Please call 364-1212, Ext. 226, for hours of service and further information.

To initiate VA benefits, report to the VA Clerk (Building 8) and bring: (1) two copies of your DD214 (separation papers); (2) one copy of your marriage/divorce certificate; and (3) copies of birth certificates of children.

Veterans who have previously attended college must have official copies of college transcripts on file in the Office of

Admissions and Records.

For academic credit purposes, a veteran is defined as an honorably discharged member of the United States Armed Forces who was on active duty for one year or more. Upon presentation of separation or discharge papers, veterans are exempt from the Health Science and Physical Education requirements for the A.A./A.S. Degree.

In addition, veterans who qualify may receive credit for military service schools toward the Associate in Arts/Science Degree upon presentation of proof to the Office of Admissions and Records. They must have completed a minimum of 12 units with a grade-point average of 2.0 at Cañada College. Units of credit for military service (6 units) and military service schools will be recorded on a student's record at the time a petition for graduation is submitted.

## VOCATIONAL EDUCATIONAL SERVICES/DISABLED STUDENTS

Vocational Educational Services is a program of services designed to meet the needs of handicapped students enrolled in an occupational program or courses. Services are designed to facilitate and encourage student retention.

Services provided:

- Tutors
- Books
- Readers
- Interpreters

Who is eligible?

• Disabled students enrolled in occupational courses

Contact: Jane Hetrick, 364-1212, Ext. 490.

### WOMEN'S RE-ENTRY TO EDUCATION

Special services are provided for women who have been out of school for some time. An Orientation Day is offered at the beginning of each semester for re-entry women. Members of the College staff will be on hand to answer questions, and Counselors will be available to discuss goals and personal needs and to assist with registration for classes.

# 20 COUNSELING AND SUPPORT SERVICES

Cañada College counselors provide support to any student seeking to implement either a short of long range educational goal. Educational and vocational advising and counseling are the essential services provided by the counseling staff. Counselors assist students to define educational or vocational goals, to select specific courses, and to clarify college and transfer requirements. In addition, counselors can help students evaluate career options and develop clear career objectives. Personal counseling may be provided to students whose personal problems tend to block their educational achievement at the College. This type of counseling is normally short-term and deals with minor impediments to a student's progress.

## PROGRAM PLANNING AND COUNSELING

Counselors are available by appointment during the registration period and throughout the academic year to consult with students. They assist students in planning programs of study, approve the final program for each semester, and are consulted about program changes. Students are encouraged to bring to the counselor's attention employment, financial, or other personal problems which affect their success in college. The counselor's function, however, is an advisory one. Ultimately, the responsibility for knowing program requirements and enrolling in proper courses rests upon the student. The good relationship between a student and a counselor is essential. Counselors are initially assigned to students according to the majors they have declared, but a student may request a change of counselor for any reason by seeing the Coordinator of Counseling, Bldg. 5, Room 215. Evening College counselors are available on a drop-in basis throughout the semester.

## CAREER AND PERSONAL DEVELOPMENT

The Counseling staff teaches classes in careers and personal development to help students with adjustment to college, as well as the career decision-making process. These classes provide the framework for self-understanding, orientation to college, an exploration and setting of occupational goals, and peer counseling.

## CAREER CENTER

The Career Center provides interest inventories and personality and vocational testing which is available to all registered students. Through this service, students may receive assistance in assessing their aptitudes and interests so that they may better plan their educational and vocational goals. Students may obtain additional information about the testing service from their counselor or the Career Center.

The Career Center has resources that provide definitions and requirements for 20,000 occupations — pamphlet files, reference books, audio-visual materials, college catalogs, a file of foreign and overseas programs of study and travel, and the EUREKA computerized occupational information system. A student may wish to research a possible career choice, take interest tests, or discuss goals. The Center is open daily from 8:00 a.m. to 4:00 p.m., and from 5:00 to 7:00 p.m. one evening a week in Bldg. 5, Room 208. Students and visitors are welcome.

## STUDENT EMPLOYMENT AND PLACEMENT SERVICES

The Student Employment and Placement Office offers a wide array of part-time and full-time employment opportunities. Placement personnel assist students to match their education and work experience with employers' requirements.

The office is located in the Cafeteria and is open Monday through Friday. Check the office for posted times of operation.

#### HEALTH CENTER

Health Services and Psychological Services are free of charge and confidential for all Cañada students. Students may drop in or make an appointment at the Health Center, located in the Career Center near the cafeteria.

Services available include confidential counseling, definitive referrals to community or private agencies, wellness programs and health information, first aid, weight control programs, insurance information, medical counseling and resources, assessment of physical and emotional problems, rest area, referrals to adaptive p.e. and other Cañada student support services, blood pressure monitoring, and hearing tests.

The Center is open during regular school hours, Bldg. 5, Room 213.



## PROGRAM PLANNING FOR NON-TRANSFER STUDENTS

This special catalog section is designed to help a student plan his/her academic program if he is seeking training or back-

ground related to a particular field or major.

The College offers a Certificate of Completion for specialized training and in some instances an Associate in Arts or an Associate in Science degree in an occupational program and for transfer to another educational institution to complete training. Students planning to transfer will find general information regarding the state colleges and universities and the University of California in the next section.

### CERTIFICATE OF COMPLETION

A Certificate of Completion (generally 18 to 30 units) is awarded in certain occupational fields upon satisfactory completion of a specific course of study. These programs, developed in cooperation with community advisory committees, have been designed to assist in upgrading persons who are already employed in business, industry or government or those preparing for employment who desire to take all their work in specialized pre-employment courses.

In order to qualify for a certificate, a student must complete required and elective courses with at least a grade point average of 2.0 (C). Parallel courses completed at other accredited institutions upon approval of the division director in which the certificate is being earned may be applied toward the certificate. The last 12 units must be taken at Cañada College. Applications for certicates must be filed in the Registrar's Office during the

last semester of attendance.

Units earned in obtaining a certificate may be applied toward the 60 units required for an A.A. or A.S. degree and may also satisfy the major requirement.

A list of certificates offered by the college follows the Associate in Arts and Associate in Science requirements.

## ASSOCIATE DEGREE (A.A./A.S.) REQUIREMENTS

Graduation from Cañada College with the Associate in Arts or Associate in Science degree is based upon the completion of 60 units of lower-division college work, including the requirements A through F listed below. An application for the degree must be filed in the Office of Admissions and Records during the last semester of attendance (refer to calendar for the college year for deadline).

#### A. RESIDENCE

A minimum of 12 units of the 60 units must be completed at Cañada College.

#### B. SCHOLARSHIP

A minimum overall grade point average of 2.0 (C) for the last 60 units.

#### C. COMPETENCY REQUIREMENTS

English

Eligibility for Engl 100, based upon English Placement exam
OR

Completion of Engl 800 or 801 with a grade of C or better OR

Completion of E.I. 311 with a grade of C or better.

#### Mathematics

A minimum score of 28 on the SMCCD Math Test #2, or minimum score of 27 on SCAT, or a minimum score of 15 on ACT, or a minimum score of 400 on math SAT OR

Completion of Elementary Algebra (Math 110, or 111 and 112) with grade of C or better, or any math course with Algebra as a prerequisite with a grade of C or better.

#### D. MAJOR

A major consists of a minimum of 18 semester units in a specified field of study. A field of study is understood to be a specific subject with such supporting subjects as may properly be used to round out that training in preparation for a major or for some particular occupation.

For students planning to transfer to four-year institutions, fulfillment of lower-division requirements for the institution of

their choice will be considered a major.

#### E. GENERAL EDUCATION

General Education introduces the student to areas of study that develop breadth of outlook and contribute to a balanced development. The courses are complementary to, but different in emphasis from, the specialized training one receives for a job, a profession or a particular field of study.

#### Associate in Arts Degree

21 units minimum

#### Associate in Science Degree

18 units minimum

## AREA I. Language and Rationality English Composition —

For A.A. degree, 2 courses, or 6 units Engl 100, 110, 800, 801, 802, E.I. 311, 312

For A.S. degree, 1 course or 3 units Engl 100, 800, 801, E.I.

#### Communication and Analytical Thinking (3 units required)

Bus. 115, Comp 151, 155, 162, 170; Engl 165; Math 105, 110, 111, 115, 120, 121, 125, 126, 130, 200, 220, 241, 251, 410; Mus. 132; Phil 103, 200; Spch 100, 120

#### AREA II. Natural Sciences (3 units required)

Anat 130, 250; Anth 125; Astr 100, 110, 120; Biol 100, 110, 111, 130, 135, 160, 310; Boty 112, 145, 220; Chem 110, 210, 410; Geog 100; Geol 100, 110, 210; HSci 101, 105, 106; H.Ec. 310; Mbio 240; NSci 100; Ocen 100; Paln 110; Phys 115, 120, 210, 250, 405, 481; PSci 101; Psio 260; Zool 210.

#### AREA III. Humanities (3 units required)

Art 101, 102, 103, 110, 201, 204, 214, 301, 405; Dram 101, 102, 140, 142, 143, 144, 151, 152; Engl 110; Fren 130, 140, 161; Hist 100, 101, 205; Hum. 100; IntD 115, 150, 320, 321, 322; Lit. 101, 111, 115, 141, 142, 143, 144, 151, 152, 200, 231, 232, 233, 251, 252, 301, 302, 341, 422, 431, 441, 455, 461; Mus. 100, 131, 202; Phil 100, 160, 175, 190, 240, 300, 310, 320; Span 130, 140, 161; Spch 111, 112.

#### AREA IV. Social and Behavioral Sciences

(3 units required)

Anth 105, 110; Econ 100, 102, \*230; Geog 110, 120, 150; Hist \*102, \*201, \*202, \*\*310, \*\*315, \*421; PISc 150, \*205 (Note: Limited to foreign students or recent immigrants), \*210, \*\*310; Psyc 100, 108, 110, 201, 300; SoSc 100; Soci 100, 105.

\*Indicates American Institutions

\*\*Indicates State and Local Institutions for CSU transfers

AREA V. Ethnic Studies (3 units required)

Anth 360, 370; Art 120; Hist 242, 422, 451, 452; Lit. 266, 268, 371, 372, 375; Psyc 278; SoSc 250, 260; Soci 141.

#### E PHYSICAL EDUCATION

One or more courses for a minimum of 2 units required. This requirement will be waived or modified for students in the following categories:

Graduates of community colleges, other accredited colleges

and universities;

· Veterans with one or more years of service;

· Persons excused for medical reasons.

Waivers other than for the reasons stated herein should be sought through the regular procedures of the College for waiver of any graduation requirement via the Academic Standards Committee.

## THE LIBERAL ARTS MAJOR FOR THE ASSOCIATE IN ARTS (A.A.) DEGREE

The Liberal Arts major provides students with a broad foundation of academic knowledge. This flexible major can be taken by students who wish to earn an Associate in Arts degree. The major is also appropriate for the undecided transfer student.

#### REQUIREMENTS

 Completion of the residency, scholarship, competency, and the Physical Education requirements for the A.A./A.S. degree.

• Completion of a major in liberal arts which consists of a

mimimum of 18 units.

 Completion of the General Education requirements for the Associate in Arts degree which consists of a minimum of 21 units.

With careful planning and the assistance of a counselor, a student can complete the requirements for an A.A. degree as well as complete the General Education certification for the State University system.

The following requirements combine the 18 units required for the Liberal Arts major and the 21 units required for the General Education section of the Associate in Arts degree. No course will satisfy more than one category or sub-category.

#### AREA A. BASIC SUBJECTS

15 units mimimum (no course will satisfy more than 1 category)

1. English Composition — 2 courses or 6 units from the follow-

ing: Engl 100, 110, 800, 801, 802; E.I. 311, 312

- 2. Communication and Analytical Thinking—1 course or 3 units from the following: Bus. 115; Comp 151, 155, 162, 170; Engl 165; Math 105, 110, 111, 115, 120, 121, 125, 126, 130, 200, 220, 241, 251, 410; Mus. 132; (Phil 103, 200; Spch 100, 120)
- 3. English Language and Critical Thinking—2 courses or 6 units. One course from 3A and one course from 3B:

3A. Spch 100, 120

3B. Engl 165; Phil 103, 200

#### AREA B. NATURAL SCIENCES

6 units required (no course will satisfy more than 1 category)

1. Physical and Life Sciences I—3 units required from the following: Anat 130, 250; Anth 125; Astr 100, 110, 120; Biol 100,

110, 111, 130, 135, 160, 310; Boty 112, 145, 220; Chem 110, 210, 410; Geog 100; Geol 100, 110, 210; HSci 101, 105, 106; H.Ec. 310; Mbio 240; NSci 100; Ocen 100; Paln 110; Phys 115, 120, 210, 250, 405, 481; PSci 101; Psio 260; Zool 210.

2. Physical and Life Sciences II—3 units required from the following: Anat 130, 250; Anth 125; Astr 100, 110, 120; Biol 100, 110, 111, 130, 160; Boty 112, 145, 220; Chem 110, 210, 410; Geog 100; Geol 100, 110, 210, 220; Mbio 240; NSci 100; Ocen 100; Paln 110; Phys 120, 210, 250, 260, 405, 481; PSci 101; Psio 260; Zool 210.

#### AREA C. HUMANITIES

6 units required (no course will satisfy more than 1 category)
1. Humanities I — 3 units required from the following: Art 101, 102, 103, 110, 201, 204, 214, 301, 405; Dram 101, 102, 140, 142, 143, 144, 151, 152; Engl 110; Fren 130, 140, 161; Hist 100, 101, 105, 205; Hum. 100; IntD 115, 150, 320, 321, 322; Lit. 101, 111, 115, 141, 142, 143, 144, 151, 152, 200, 231, 232, 233, 251, 252, 301, 302, 341, 422, 431, 441, 442, 455, 461; Mus. 100, 131, 202; Phil 100, 160, 175, 190, 240, 300, 310, 320; Span 130, 140, 161; Spch 111, 112.

2. Humanities II - 3 units required from the following:

2a. Arts — Art 101, 102, 103, 110, 120, 201, 204, 214, 301, 405; Dram 101, 102, 140; Hum. 100; Mus. 100, 131, 202.

2b. Literature — Dram 142, 143, 144, 151, 152; Engl 110; Lit. 101, 111, 115, 141, 142, 143, 144, 151, 152, 200, 231, 232, 233, 251, 252, 266, 268, 301, 302, 341, 371, 372, 375, 422, 431, 441, 442, 455, 461; Spch 111, 112.

2c. Philosophy - Hist 105, 205; Phil 100, 160, 175, 190, 240,

300, 310, 320.

2d. Foreign Language — Fren 110, 111, 112, 120, 121, 122, 130, 140, 161, 162; Germ 110, 111, 112, 120, 121, 122; Span 110, 111, 112, 120, 121, 122, 130, 140, 161, 162.

 Development of Cultures — Hist 100, 101, 451, 452; SoSc 250, 260.

#### AREA D. SOCIAL AND BEHAVIORAL SCIENCES

6 units required (no course will satisfy more than 1 category)
1. Social Sciences—3 units required from the following: Anth 105, 110; Econ 100, 102, 230; Geog 110, 120, 150; Hist 102, 201, 202, 260, 310, 315, 421; PISc 110, 150, 205 (Note: Limited to foreign students or recent immigrants), 210, 310; Psyc 100, 108, 110, 201, 300; SoSc 100; Soci 100, 105.

1. Social Sciences — 3 units required from the following:

 American Institutions — Econ 230; Hist 102, 201, 202, 242, 260, 421; PISc 205, 210.

2a. State and Local Institutions - Hist 310, 315; PISc 205, 310.

#### AREA E. ETHNIC STUDIES

3 units required (no course will satisfy more than 1 category)
1. Ethnic Studies — 3 units required from the following: Anth 340, 360, 370; Art 120; Hist 242, 422, 451, 452; Lit. 266, 268, 371, 372, 375; Psyc 278; SoSc 250, 260; Soci 141.

## E LIFE LONG UNDERSTANDING AND SELF DEVELOPMENT

No units required

Biol 135, 310, 312; Fitn 101, 430; H.Ec. 310, 312; HSci 101, 104, 105, 106; Crer 137, 140.

#### G. ELECTIVES

3 units required

 Selection of one additional course from Areas A — E listed on the California State University and Colleges General Education Certification sheet.

## **OCCUPATIONAL PROGRAMS**

Associate in Arts Degree or Associate in Science Degree or Certificate Programs

Career Program	Certificate A.A. A.S
Business	
Accounting	
Business Administration	
Integrated Information Processing	
Administrative Assistant	
General Office	
Office Administration	
Word/Information Processing	
Microcomputer Applications	•
Computer Information Systems	
Early Childhood Education	
Home Economics	
General	
Textiles & Clothing	
Interior Design	
Commercial	
Kitchen & Bath	•
Residential	
Management	
General	
Public Administration	
Microcomputer	
Technician	
Ophthalmic Dispensing	•
Paralegal	•
Radiologic (X-ray)	
Technology	
Travel Industry Career (Tourism)	
Retail	•
Wholesale	•
Tourism	•



# 24 TRANSFER PROGRAMS

Students planning to transfer will find general information regarding the state colleges and universities and the University of California in this section. Cañada College offers the lower division requirements for transfer in most majors. Since requirements vary, it is essential that students — with their counselors — plan their programs at Cañada from the catalogs of the universities or colleges to which they plan to transfer. In this planning, students should review both the degree requirements and the departmental requirements for their majors.

#### CALIFORNIA STATE UNIVERSITY AND COLLEGES

A student planning to transfer to a California State University or College, private college or university, can usually complete the first two years of work at Cañada College. If all requirements have been met, students transferring to higher institutions may graduate after two years of full time study. Students may decide to spend more than two years at Cañada College or transfer to a four-year institution with less than junior standing. It is important that they consult with their counselors in order to arrange transfer programs.

College catalogs are on file in the Library and the Career Center. Students may write directly to the Registrar or Dean of the

institutions of their choice to obtain catalogs, circulars of information and other data concerning required subjects.

The earlier the students make a decision regarding a transfer institution, the better are their chances for meeting all the requirements. If they are unable to make this decision when they enter Cañada College, they may elect to follow the requirements shown in the General Education curriculum of the California State University and Colleges.

High school subject deficiencies may be made up at Cañada College in order to meet course prerequisites at college level. In some instances students may qualify or transfer to the colleges of their choice by maintaining an acceptable grade-point average

at Cañada College without having met high school deficiencies.

## CALIFORNIA STATE UNIVERSITY AND COLLEGES GENERAL EDUCATION REQUIREMENTS

Cañada College will certify that the general education requirements of the California State Universities and Colleges have been met for those students who complete a minimum of 39 units.

AREA A: Communication in the English Language & Critical Thinking: 9 units. One course required from each sub-area. UNITS A1 ORAL COMMUNICATION A2 WRITTEN COMMUNICATION A3 CRITICAL THINKING COMPLETED Spch 100 Engl 100 Engl 165 A1 🗌 A2 🗌 Spch 120 Phil 103 Phil 200 A3 🗌 TOTAL UNITS AREA B: Physical Universe & Its Life Forms: 9 units. One course from Physical Science (B1), Life Science (B2), and Math Concepts (B3). Must include 1 lab course from Area B1 or B2 (indicated with \*). UNITS **B1 PHYSICAL SCIENCE B2 LIFE SCIENCE B3 MATH CONCEPTS** COMPLETED Astr 100, 110, 120, Anat 130, 250\*, Anth 125, REAS. & APPLIC. B1 🗌 Chem 110\*, 210\*, 410\*, Biology 100, 110\*, 111\*, 130\*, 160, Math 105, 120, 121, 125, 126, B2 🗌 Geog 100, Geol 100\*, 110, 210\*, 220\*, Botany 112\*, 145\*, 220\*, Mbio 240\*, 130, 200, 220, 241, 251 B3 🗌 Ocen 100, Phys 120, 210\*, 250\*, 260\*, NSci 100, Paln 110, Psio 260\*, Zool 210\* 405, 481\*, PSci 101, NSci 100 TOTAL UNITS AREA C: Arts, Literature, Philosophy & Foreign Language: 9 units. Three courses to be selected from at least two sub-

reas. I maicates Ethnic Studies C	ourses.		UNIIS
C1 ARTS	C2 LITERATURE	C3 PHILOSOPHY	COMPLETE
Art 101, 102, 103, 110, 120+,	Dram 142, 143, 144, 151, 152,	History 205,	
01, 204, 214, 301, 405,	Engl 110, Lit. 101, 111, 115, 141,	Philosophy 100, 160,	C1 🗆
Dram 101, 102, 140, Hum 100,	142, 143, 144, 151, 152, 200, 231,	175, 190, 240,	
Aus. 100, 131, 202	232, 233, 251, 252, 266+, 268+, 301,	300, 310, 320	C2 🗆
	302, 341, 371+, 372+, 375+, 422, 431,		
	441, 442, 455, 461, Spch 111, 112		C3 🗆

UNITS

C4 FOREIGN LANGUAGE	C5 THE DEVELOPMENT	
Fren 110, 111, 112,	OF CULTURES	C4 🗌
120, 121, 122, 130, 140, 161,	Hist 100, 101,	
162, Germ 110, 111, 112, 120,	451†, 452†,	C5 🗆
121, 122, Span 110, 111, 112,	SoSc 250t, 260t	
120, 121, 122, 130, 140, 161, 162		TOTAL UNITS
AREA D: Social, Political & Economic In to satisfy the U.S. History, Constitution Institutions only for foreign students. †Eth	& American Ideals requirement). *Fulfills American Institutionic Studies courses.	n D2 must be complete tions and State & Loc UNITS
D1 AMERICAN INSTITUTIONS	D2 STATE/LOCAL INSTITUTIONS	COMPLETE
Econ 230, Hist 102, 201, 202, 242+,	Hist 310, 315,	D1 🔲
260, 421, PISc 205*, 210	PISc 205*, 310	D2 🔲
D3 SOCIAL, ECONOMIC & CONTEMPORA Admj 101, 126, 360, Anth 105, 110, 360†, 370 Econ 100, 102, Envr 120, Geog 110, 120, 150, PISc 110, 150, Psyc 100, 108, 110, 201, 202, 21	t, Bus. 100, Ece. 212, Hist 422t, Jour 110, 220, 230,	D3 🗆
Soci 100, 101, 105, 126, 141† 360, SoSc 100, 11		TOTAL UNITS
AREA E: Lifelong Understanding & Self-I	Development: 3 units	
Biol 135, 310, 312, H.Ec. 310, 312 Crer 137, 140,	Any Physical Ed. Course, HSci 101, 104, 105, 106	TOTAL UNITS
LOWER DIVIS	ION GENERAL EDUCATION UNITS FULFILLED	UNITS

OR

NOTE: To complete General Education, 9 units must be taken at the transfer institution.

LOWER DIVISION GENERAL EDUCATION UNITS PARTIALLY FULFILLED



# COURSES FROM CAÑADA COLLEGE TRANSFERABLE TOWARD BACCALAUREATE DEGREE CREDIT CALIFORNIA STATE UNIVERSITY AND COLLEGES

Accounting 100, 121, 131, 171, 190, 680, 690, 695

Administration of Justice 101, 104, 126, 350, 360, 370, 670, 680, 690, 695

Anatomy 130, 250, 680, 690, 695

Anthropology 105, 110, 125, 360, 370, 680, 690, 695

Art 101, 102, 103, 110, 120, 190, 201, 202, 204, 205, 207, 214, 221, 222, 231, 232, 234, 235, 241, 301, 303, 305, 311, 312, 320, 322, 324, 326, 351, 405, 406, 411, 424, 680, 690, 695, 800

Astronomy 100, 110, 120, 680, 690, 695

Biology 100, 110, 111, 130, 135, 160, 310, 312, 680, 690, 695

Botany 112, 145, 220, 680, 690, 695

Business 100, 101, 103, 115, 131, 150, 180, 201, 235, 415, 420, 421, 430, 432 434, 436, 670, 680, 690, 695

Career & Personal Development 137, 140, 401, 410, 680

Chemistry 110, 210, 220, 231, 232, 250, 410, 420, 680, 690, 695

Computer Science 103, 115, 151, 155, 157, 162, 170, 172, 179, 200, 245, 275, 670, 680, 690, 695

Cooperative Education 670

Drama 101, 102, 106, 140, 142, 143, 144, 151, 152, 200, 201, 202, 203, 208, 209, 210, 211, 230, 248, 261, 262, 263, 264, 300, 305, 338, 680, 690, 695

Early Childhood Education 191, 210, 211, 212, 230, 240, 241, 243, 311, 313, 670, 680, 690, 695

Economics 100, 102, 230, 680, 690, 695

English:

English 100, 110, 161, 162, 165, 181, 680, 690, 695

Literature 101, 111, 115, 141, 142, 143, 144, 151, 152, 191, 200, 231, 232, 233, 251, 252, 266, 268, 301, 302, 341, 371, 372, 375, 422, 431, 441, 442, 455, 461, 680, 690, 695

Environment 120, 680, 690, 695

French 110, 111, 112, 120, 121, 122, 130, 140, 161, 162, 196, 197, 680, 690, 695

Geography 100, 110, 120, 150, 680, 690, 695

Geology 100, 110, 120, 210, 220, 680, 690, 695

German 110, 111, 112, 120, 121, 122, 196, 680, 690, 695

Health Science 101, 103, 104, 105, 106, 107, 110, 680, 690, 695

History 100, 101, 102, 201, 202, 205, 242, 310, 315, 421, 422, 451, 452, 650, 680, 690, 695

Home Economics 110, 111, 112, 113, 115, 116, 117, 118, 120, 122, 123, 124, 125, 127, 128, 129, 150, 151, 307, 310, 312, 320, 410, 416, 420, 680, 690, 695, 830

Humanities 100, 680, 690, 695

Interior Design 115, 125, 146, 147, 148, 150, 156, 160, 170, 180, 245, 250, 260, 270, 271, 274, 276, 278, 320, 321, 322, 350, 411, 450, 670, 680, 695

Journalism 110, 120, 220, 230, 300, 680, 690, 695

Library 100

Life Science 670

Management 100, 105, 120, 130, 136, 137, 215, 220, 225, 235, 240, 281, 282, 670, 680, 690, 695

Mathematics 105, 120, 121, 125, 126, 130, 200, 219, 220, 241, 242, 251, 252, 253, 270, 275, 410, 680, 690, 695

Microbiology 240, 680, 690, 695

Music 100, 101, 102, 103, 131, 132, 133, 134, 135, 150, 170, 190, 202, 295, 301, 302, 303, 304, 305, 306, 307, 308, 321, 322, 323, 324, 325, 326, 327, 328, 341, 342, 343, 344, 345, 346, 347, 348, 361, 362, 363, 364, 365, 366, 367, 368, 371, 372, 373, 374, 391, 392, 393, 394, 401, 402, 403, 404, 405, 406, 407, 408, 430, 440, 441, 442, 443, 444, 445, 461, 462, 463, 464, 471, 472, 473, 474, 481, 482, 483, 484, 490, 491, 492, 493, 494, 495, 496, 680, 690, 695

Natural Science 100, 680

Oceanography 100, 680

Office Administration 100, 110, 120, 145, 200, 240, 300, 331, 332, 333, 334, 400, 401, 410, 412, 450, 670, 680, 690, 695

Paleontology 110, 680, 690, 695

Paralegal 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260

Philosophy 100, 103, 160, 175, 190, 200, 240, 300, 310, 320, 650, 680, 690, 695

Physical Education:

Adaptive 350, 351, 352, 353, 354, 680

Aquatics 100, 680

Combatives 401, 680

Dance 111, 112, 115, 130, 131, 132, 140, 143, 330, 350, 400, 680

Fitness 101, 140, 161, 165, 201, 204, 315, 430, 431, 680

Individual 121, 124, 161, 164, 166, 222, 251, 252, 253, 254, 255, 256, 257, 301, 302, 303, 680

P.E. 115, 116, 200, 300, 680, 690, 695

Team 101, 102, 105, 110, 111, 115, 141, 142, 143, 151, 152, 153, 170, 171, 172, 680

Varsity 100, 101, 110, 111, 120, 121, 140, 141, 150, 151, 170, 171, 320, 321, 340, 341, 680

Physical Science 101, 670, 680, 690, 695

Physics 115, 120, 210, 220, 250, 260, 270, 405, 481, 680, 690, 695

Physiology 256, 260, 680, 690, 695

Political Science 150, 205, 210, 310, 680, 690, 695

Psychology 100, 108, 110, 201, 202, 210, 211, 212, 221, 223, 278, 300, 340, 370, 391, 680, 690, 695

Radiologic Technology 420, 430, 495

Real Estate 100

Russian 110, 111, 112

Social Science 100, 122, 200, 250, 260, 392, 670, 680, 690, 695

Sociology 100, 101, 104, 105, 120, 126, 141, 360, 680, 690, 695

Spanish 110, 111, 112, 120, 121, 122, 130, 140, 161, 162, 196, 680, 690, 695

Speech Communication 100, 111, 112, 120, 127, 130, 140, 680, 690, 695

Tourism 100, 101, 103, 104, 200, 670, 680, 690, 695

Zoology 210, 680, 690, 695

#### UNIVERSITY OF CALIFORNIA

A student planning to transfer to one of the campuses of the University of California can usually complete the first two years of his or her work at Cañada. In some cases, students may wish to make up high school course deficiencies or grade point average deficiencies. It is important to work with your counselor from the general catalog of the University campus you plan to attend. The current issue of the University publication "Prerequisites and Recommended Subjects" is a helpful planning guide. It lists the requirements for admission, breadth requirements and requirements for the major, all of which should be carefully considered in planning your program at Cañada.

Not all Canada courses are designed for transfer to the University of California. The following is a list of those that are transferable to all campuses of the University. Some others may be accepted for transfer credit by a particular campus depending

upon your major.

## COURSES FROM CAÑADA COLLEGE ACCEPTABLE AT UNIVERSITY OF CALIFORNIA (ALL CAMPUSES)

Accounting 121 (4-5); 131 (4-5)

Administration of Justice 101 (3); 104 (3); 126 (3)

Anatomy 250 (W/Lab 4)

Anthropology 105 (3); 110 (3); 125 (3); 360(3); 370 (3); 680 (1-3); 690 & 695 (See Independent Study)

Art 101 (3); 102 (3); 103 (3); 110 (3); 120 (3); 190 (3) (no credit if taken after Spring '85); \*201 (3); \*202 (3); \*204 (3); \*205 (3); \*207 (3); \*214 (3); \*221 (3); \*222 (3); \*231 (3); \*232 (3); †234 (3); †235 (3); †241 (3); †301 (3); †303 (3); †305 (3); \*320 (3); \*326 (3); †405 (3); †406 (3); †411 (3); †424 (3); 670, 680 & 690 & 695 (See Independent Study)

\*Any or all of these courses combined: maximum credit allowed, 16 units

†Any or all of these courses combined: maximum credit allowed, 12 units

Astronomy 100 (3); 110 (3); 120 (3); 680 (1-3)

Biology \*100 (3); 110 (W/Lab 4); 111 (W/Lab 3); 130 (W/Lab 4); 135 (1.5); 160 (3); 310 (3); 680 & 690 & 695 (See Independent Study)

\*No credit for 100 following a college course in Biological Science

Botany 112 (W/Lab 3); 145 (3) (W/Lab 4); 220 (W/Lab 5)

Business 201 (3)

Chemistry 110 (3) (Lab 1); 210, 220 (W/Lab 5, 5); \*231 (W/Lab 5); 232 (W/Lab 4); 250 (W/Lab 4); \*410, \*420 (W/Lab 4, 4); 680 (1-3); 690 & 695 (See Independent Study)

NOTE: 110 following 210 or 410: no credit for 110.

410 following 210: no credit for 410. 420 and 220 combined: no credit for 420.

Computer Science \*151 (3); \*155 (3); \*162 (3); \*170 (3); \*275 (3); 670 & 680 & 695

\*These courses combined with any or all other Computer Science courses: maximum credit allowed, 4 courses (See Independent Study)

Cooperative Education 670 (See Independent Study)

Drama 101 (3); 102 (3); \*106 (3); 140 (3); 142 (3); 143 (3); 144 (3); 151, 152 (3, 3); \*200 (3); \*201, 202, 203 (3, 3, 3); +208, 209, 210, ‡211 (1-2); \*230 (3); †248 (2)); †261, †262 (3, 3); †263, †264 (3, 3); ‡300 (.5-2); ‡305 (.5-2); †338 (1-2) (maximum credit 5-1/3); 670 & 680 & 690 & 695 (See Independent Study)

\*Any or all of these courses combined: maximum credit allowed, 12 units.

†Any or all of these courses combined: maximum credit allowed, 12 units.

 $\ddagger$ Any or all of these courses combined: maximum credit allowed, 5-1/3 units.

Early Childhood Education (no credit if taken after Spring '85)

Economics 100, 102 (3, 3); 230 (3); 670, 680 & 690 & 695 (See Independent Study)

\*Engineering 100 (2); 200 (2); 220 (2); 230 (3); 260, 260L (3/Lab 1); 270 (3); 680 & 690 & 695 (See Independent Study)

\*Maximum credit allowed, 16 units

English:

English 100 (3); 110 (3); 161, 162 (3, 3); 165 (3)

Literature 101 (3); 111 (3); 115 (3); 141 (3); 142 (3); 143 (3); 151 (3); 152 (3); 200 (3); 231, 232, 233 (3, 3, 3); 251 (3); 252 (3); 266 (3); 268 (3); 301, 302 (3, 3); 341 (3); 371 (3); 372 (3); 375 (3); 422 (3); 431 (3); 441, 442 (3, 3); 455 (3); 461 (3)

Engl/Lit 680 & 690 (See Independent Study)

Environment 120 (3); 680 (See Independent Study)

French 110 (5); \*111, \*112 (3, 3); 120 (5); \*121, \*122 (3, 3); 130 (5); 140 (3); 161, 162 (3, 3); 680 & 690 & 695 (See Independent Study).

\*111, 112 equivalent to 110; \*121, 122 equivalent to 120.

Geography 100 (3); 110 (3); 120 (3); 150 (3); 680 & 690 & 695 (See Independent Study)

Geology \*100 (3); 110 (3); 120 (3); \*210 (4); 220 (4); 680 & 695 (See Independent Study)

\*210 and 100 combined: maximum credit allowed, one course.

German 110 (5); \*111, \*112 (3, 3); 120 (5); \*121, \*122 (3, 3); 680 & 690 & 695 (See Independent Study) \*111, 112 equivalent to 110; 121, 122 equivalent to 120

Health Science \*101 (1); 102 (1.5); \*104 (1); \*105 (1); \*106 (1); 110 (1)

\*Any or all of these courses combined: maximum credit allowed, 1 course

History 100, 101 (3, 3); \*102 (3); \*201, \*202 (3, 3); 205 (3); 242 (3); 310 (3); 421 (3); 422 (3); 451, 452 (3, 3); 650 (1-3); 680 & 690 & 695 (See Independent Study) \*102 & 201, 202 combined: no credit for 102

Home Economics 113 (3); \*115 (3); \*118 (3); 310 (3) \*maximum credit allowed, 2 courses.

Humanities 100 (3); 680 & 690 (See Independent Study)

Interior Design (no credit if taken after Spring '84)

Journalism 110 (3); 120 (3) Maximum credit allowed, 1 course

Library Science 100 (1)

Mathematics 125 (3); 200 (4); †219 (3); †220 (3); \*241, \*242 (5, 5); \*251 (5); \*252, \*253 (5, 5); 270 (3); 275 (3); 680 & 690 (See Independent Study)

†Maximum credit, 1 course (3 units)
\*Check for duplication of credit

check for auphention of cre-

Microbiology 240 (W/Lab 5)

Music 100 (3); 101, 102, 103 (3, 3, 3); 131, 132, 133, 134 (3, 3, 3, 3); 150 (2-3); \*170 (1); 202 (3); \*295 (1); \*300, 301, 302, 303, 304 (2 each); \*305, 306, 307, 308 (2 each); \*309 (1); \*321, 322, 323, 324 (1 each); \*325, 326, 327, 328 (1 each); \*341, 342, 343, 344 (1 each); \*345, 346, 347, 348 (1 each); \*361, 362, 363, 364 (1 each); \*365, 366, 367, 368 (1 each); \*371, \*372, 373. 374 (1 each); \*391, 392, 393, 394 (1 each); \*401, 402, 403, 404 (1 each); \*405, 406, 407, 408 (1 each); \*430 (2); \*440; \*441, 442, 443, 444 (2 each); 445 (1); \*461, 462, 463, 464 (1 each); \*471, 472, 473, 474 (1 each); \*481, 482, 483, 484 (2 each); \*490; \*491, 492, 493, 494 (1 each); \*495 (1-3); \*496 (.5); \*680 & \*690 & 695 (See Independent Study)

\*Any or all of these courses combined: maximum credit allowed, 12 units.

Natural Science 100 (3)

Oceanography 100 (3)

Paleontology 110 (3); 680 (See Independent Study)

Philosophy 100 (3); 103 (3); 160 (3); 175 (3); 190 (3); 200 (3); 240 (3); 300 (3); 310 (3); 320 (3); 650 (3); 680 & 690 & 695 (See Independent Study)

Physical Education:

Adaptive \*350-354 (.5-1.5 each)

Aquatics \*100 (1.5 each)

Combatives \*401 (1.5); \*680 (1-3 each)

Dance ‡ 111 (2); ‡ 112 (2); ‡ 115 (2); ‡ 130 (2); ‡ 131 (1); ‡ 132 (2); ‡ 140, 143 (1-1.5 each); ‡ 330 (1); ‡ 400 (2); ‡ 680 (1-3); ‡ 690 & 695 (See Independent Study)

Fitness \*100 through 315 (1-3 each)

Individual \*121 through 303 (1-3 each)

Theory †115 (2); †116 (.5-1.5); \*200 (.5); †300 (2)

Team Sports \*101 through 172 (1.5-2.5 each)

Varsity \*100 through 341 (1-2 each)

\*Any or all of these courses combined: maximum credit allowed, 4 units

†Any or all of these courses combined: maximum credit allowed, 8 units

‡ Any or all of these courses combined: maximum credit allowed, 12 units

Physical Science 101 (3); 670 (See Independent Study)

Physics \*120 (3); \*210, \*220 (W/Lab 4, 4); \*250, 260, 270 (W/Lab 4, 4, 4); 680 (See Independent Study)

\*210, Lab + 250: deduct 3 units from 210, Lab

210, Lab + 270: deduct 1 unit from 210, Lab 220, Lab + 260: deduct 2 units from 220, Lab

220, Lab + 270: deduct 2 units from 220, Lab

120 following 210 or 250: no credit for 120

Physiology 260 (W/Lab 5); 680 (1-3)

Political Science 150 (3); 210 (3); 310 (3); 680 (1-3)

Psychology 100 (3); 110 (3); \*201 (3); \*202 (3); 278 (3); 300 (3); 340 (1.5-3); 680 (1-3); 690 & 695 (See Independent Study) \*201 & 223: maximum credit allowed, 1 course.

‡ 201 and 202 combined with Social Science 392: maximum credit allowed, 2 courses

Social Science 100 (3); 250 (3); 260 (3); \*392 (3)
\*392 combined with Psychology 201 and 202: maximum credit allowed, 2 courses

Sociology 100 (3); \*101 (3); 104 (3); 105 (3); 120 (3); 126 (3); 141 (3); \*360 (3); 680 (1-3); 690 & 695 (See Independent Study) \*No credit if taken after Summer 1985

Spanish 110 (5); \*111, \*112 (3, 3); 120 (5); \*121, \*122 (3, 3); 130 (5); 140 (3); 161, 162 (3, 3); 680 (1-3); 690 & 695 (See Independent Study).

\*111, 112 is equivalent to 110; 121, 122 is equivalent to 120

Speech Communication 100 (3); 111, 112 (3, 3); 120 (3); 127 (3); 140 (3); 680 (1-3); 690 & 695 (See Independent Study)

Zoology 210 (W/Lab 5); 680 (1-3)

Independent Study 690 maximum credit allowed: 3-1/3 units per term, 6 units total in any or all appropriate subject areas only

Cooperative Education 670 same as 690 transfer credit

## ASSOCIATE IN ARTS OR ASSOCIATE IN SCIENCE DEGREE

Majors	A.A.	A.S.
Accounting		•
Anthropology	•	
Art		
Biology		•
Business Administration		•
Chemistry		•
Computer Inform. Systems		•
Drama	•	
Early Childhood Education	•	
Economics	•	
Engineering		•
English	•	
Geography	•	
Geology		•
History	•	
Home Economics	•	
Integrated Information Processing/ Office Administration		
Interior Design		
Journalism		- 9 100
Liberal Arts		
Management		
Mathematics		
Microcomputer		
Technician		
Music	•	
Philosophy		
Physical Education		
Physics		
Political Science		
Psychology		
Sociology	•	
Speech		
Tourism		



# 30 BASIC AND APPLIED SCIENCES

The Division of Basic and Applied Sciences encompasses all of the traditional sciences and Mathematics, as well as the applied sciences, such as Engineering and Physical Education.

The division offers all of the traditional lower division transfer courses preparatory to transfer to a four-year institution of higher learning, basic skills in Mathematics and a wide variety of Physical Education activity courses. A major thrust in the Physical Education Department is classes designed for the lifelong enhancement of fitness, recreation and leisure time. Individual pace is strongly encouraged. Team classes include various game theories and procedures. A complete testing facility is available for determining an individual's fitness level accompanied by prescriptive activities.

accompanied by prescriptive activities.

A series of lecture and laboratory experiences in the science area deal with the examination and explanation of physical and biological phenomena. These classes range from Anatomy through Zoology, including Mathematics and Engineering. A framework is provided in such classes to relate scientific discoveries to the student's civic and personal problems.

Direct occupational programs are provided in the areas of Radiologic Technology, and Ophthalmic Dispensing.

The Basic and Applied Sciences Division encompasses the following departments:

Biological Sciences Computer Information Systems Engineering Mathematics Ophthalmic Dispensing Physical Education/Athletics Physical Sciences Radiologic Technology

## **BIOLOGICAL SCIENCES**

A major in Biological Sciences is a preparation for advanced work, for careers in civil service, industry, or teaching; as a background for professional training in such fields as Biological Science Education, Nursing, Public Health, Environmental Health, Pre-Medicine and all related areas of biology. Natural resources are among the most important assets of man and the wise use of renewable resources is basic to development in the economic, social and political areas. All of the basic pre-professional requirements necessary to transfer are offered in the Biological Sciences, Physical Sciences, and Mathematics Departments. Pre-professional students should check the specific requirements of the school to which he/she will be applying prior to defining the exact pre-professional course of study.

#### CAREER OPPORTUNITIES

Biology and Applied Fields: Agriculture, Physiology, Microbiology, Botany, Entomology, Zoology, Public Health, Medical Technology

Pre-Professional Programs: Medicine, Dentistry, Veterinary, Nursing, Physical Therapy, Optometry, Medical Lab Technician, Dental Hygiene, Pharmacy.

Environmental Science: Fisheries, Forestry, Natural Resources, Range Management, Wildlife Management.

Anthropology: Consulting and City Planning.

## **BIOLOGY AND APPLIED FIELDS**

RECOMMENDED TRANSFER PROGRAM (Biology, Agriculture, Physiology, Microbiology, Botany, Entomology, Zoology, Public Health, Medical Technology, etc.)

MATH 241, 242 Applied Analytic	-	
Geometry & Calculus		10
CHEM 210, 220 General Chemistry		10
CHEM 231 Organic Chemistry		5

CHEM 250 Quantitative Analysi	s (	R	ec	01	m	m	ei	ne	de	ec	1)		4					4
PHYS 210, 220 General Physics								. ,						. ,		ĸ.		8
BIOL 110 Principles of Biology																		4
or																		
BIOL 130 Human Biology																		4
BOTY 220 General Botany																		5
ZOOL 210 General Zoology																		5
Foreign Language												 				0	-	12

#### **DENTAL HYGIENE**

RECOMMENDED TRANSFER PROGRAM High School Preparation: Chemistry, Mathematics thro Trigonometry	ugh
CHEM 210 General Chemistry	5
CHEM 231 Elem. Organic	5
BIOL 110 Principles of Biology	4
ZOOL 210 General Zoology	- 5
PSYC 100, 105 — General, Experimental	6
Foreign Language 0	-12
Geometry & Calculus	5
*PHYS 210 General Physics	4
*(Minimum requirements — Humboldt State Univ.)	

## MEDICAL LAB TECHNICIAN

RECOMMENDED TRANSFER PROGRAM Recommended High School Preparation: Elementary Algebra Plane Geometry, Intermediate Algebra, Trigonometry Chemistry, Biology, Physics, Foreign Language. BIOL 110 Principles of Biology	,
BIOL 130 Human Biology	4
ZOOL 210 General Zoology BOTY 220 General Botany	5
MBIO 240 General Microbiology	5
CHEM 210, 220 General Chemistry 1 CHEM 250 Quantitative Analysis 1	0
CHEM 231 Organic Chemistry	5
PHYS 210, 220 General Physics	8

## NURSING

	Jnits
CHEM 410, 420 Health Science Chemistry	8
ANAT 250 Anatomy	4
PSIO 260 Human Physiology	5
MBIO 240 General Microbiology	5
BIOL 310 Nutrition	3
or ANTH 110 Cultural Anthropology PSYC 100, 201 General, Child	3
Development	6

#### **OPTOMETRY**

RECOMMENDED TRANSFER PROGRAM High School Preparation: Chemistry, Physics, Foreign La guage, four years of college preparatory Math. MATH 241, 242 Applied Analytic Geometry & Calculus	its
Geometry & Calculus	10
CHEM 210, 220 General Chemistry	10
PHYS 210, 220 General Physics	8
BIOL 110 Principles of Biology	4
ZOOL 210 General Zoology	5
PSYC 100 General Physics	3
Foreign Language 0-	12

PHARMACY
RECOMMENDED TRANSFER PROGRAM High School Preparation: Physics, Chemistry, four years of college preparatory Math. Units
MATH 241, 242 Applied Analytic  Geometry & Calculus
CHEM 250 Quantitative Analysis 4
PHYS 210, 220 General Physics         8           BIOL 210 Principles         4           ZOOL 210 General Zoology         5
Foreign Language
PHYSICAL THERAPY
RECOMMENDED TRANSFER PROGRAM Units BIOL 110 Principles of Biology
PSIO 260 Human Physiology
CHEM 410, 420 Health & Science Chemistry 8 PHYS 210 General Physics 4
PRE-DENTISTRY RECOMMENDED TRANSFER PROGRAM
High School Preparation: Chemistry, Mathematics through Trigonometry.  Units
CHFM 210 220 Ceneral Chemistry 10
CHEM 250 Quantitative Analysis (Recommended)
BIOL 110 Principles of Biology 4
or BIOL 130 Human Biology 4 ZOOL 210 General Zoology 5 PSYC 100, 105—General, Experimental 0–6
PSYC 100, 105 — General, Experimental 0-6 Foreign Language 0-12
Foreign Language 0–12 MATH 241, 242 Applied Analytic Geometry & Calculus 10
PRE-MEDICINE
RECOMMENDED TRANSFER PROGRAM
High School Preparation: Chemistry, Mathematics. Four years of college preparatory Math, Physics.  CHEM 210, 220 General Chemistry
CHEM 250 Quantitative Analysis
CHEM 231 Organic Chemistry
ZOOL 210 General Zoology
PHYS 210, 220 General Physics
Geometry & Calculus
PRE-VETERINARY MEDICINE
RECOMMENDED TRANSFER PROGRAM High School Preparation: Chemistry, Physics, Foreign Lan-
guage, four years of college preparatory Math.  CHEM 210, 220 General Chemistry  CHEM 231, 232 Organic Chemistry  PHYS 210, 220 General Physics  8
CHEM 231, 232 Organic Chemistry 10
PHYS 210, 220 General Physics 8 BIOL 110 Principles of Biology 4 ZOOL 210 General Zoology 5

MATH 241, 242 Applied	Analytic	
Geometry & Calculus	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10

### COMPUTER **INFORMATION SYSTEMS**

The Computer Information Systems (CIS) Program is designed to provide both an academic and a practical laboratory background for people who plan to work directly or indirectly in the computer field.

Cañada College's Computer Center is equipped with a multistation minicomputer and also a large number of microcom-

Course offerings include: Introduction to Computer Science, Assembly Language, BASIC, C, COBOL, FORTRAN, and Pascal programming languages, Applications of Advanced BASIC, Files and Data Base Management, Advanced Programming Techniques, Statistics, and Finite Mathematics with Computer Applications. In addition, the microcomputers can be used to provide computer-assisted instruction (CAI) in various courses, and the minicomputer can be used for word-processing in English composition and other courses requiring writing.

Students in the CIS program can earn a Certificate and/or an Associate in Science degree in CIS. Each will provide skills necessary for entry-level employment. Students who already possess a degree in another field may take a Certificate to provide them with skills necessary in the computer field. Students may also complete the preparation for a B.A./B.S. degree major and then transfer to a four-year college or

university.

The Certificate will be awarded in two options:

CIS — Computer Science
 CIS — Business (See the Business Dept. Section for infor-

mation on this Certificate)

A normal sequence of computer courses for CIS-Computer Science Certificate students is COMP 103, COMP 170, COMP 179, COMP 245, one other programming language course,

A normal sequence of computer courses for CIS-Business Certificate students is BUS. 103, COMP 151, COMP 170 or COMP 155, COMP 179.

The A.S. degree will be awarded in five options:

Computer Science

- Computer Science/Engineering
- Computer Science/Business
- Computer Science/Social Science
- Transfer Program

#### Career Opportunities

The career opportunities available with a background in Computer Information Systems are vast and varied. An increasingly greater number of personnel skilled in CIS are needed as designers and manufacturers of computer systems, as engineers and scientists for research and development of computer systems, and as sales personnel skilled in marketing methods for selling computer systems. Programmers, managers, and computer operators are needed, as well as personnel for clerical and data preparation jobs. Other options include: systems analysts; interdisciplinarians (those who can meet the needs of persons from varied professions united on mutual projects); specialists in areas such as business, engineering, science, education and government; and management interpreters of computer systems needs and opportunities.

CERTIFICATE PROGRAM IN CIS—COMPUTER SCIENCE CORE REQUIREMENTS  COMP 103 Intro. to Computer Science	Many universities and colleges distinguish between B.S. B.A. programs in computer engineering and computer systems the latter emphasizing software. Students may wish to consul with a counselor or refer to the catalog of the appropriate transfer institution.  ENGINEERING  The Engineering programs detailed below have been designed to prepare a student to transfer to the Engineering Department of four-year colleges and universities at the end of the sophomore year. It is very important that the student refer to the catalog of the transfer college of his or her choice and work
ASSOCIATE IN SCIENCE DEGREE  COMPUTER SCIENCE Certificate Core Requirements (CIS-Computer Science)  MATH 200 Statistics  MATH 251 & 252 Analyt. Geometry & Calculus  COMP or MATH 201020	through the Engineering Department Counselor.  The core subjects listed below were approved unanimously by representatives of all the California State Colleges and Universities and all branches of the University of California and the fal meeting of the Engineering Liaison (ELC) Committee in November, 1970.
COMP or MATH course not included in the above 6 General Education Requirements 18 Physical Education 2 Total 60	CAREER OPPORTUNITIES  Practicing engineers are expected to be able to solve a large variety of technical problems in the area of: Aeronautics, Chemical, Civil, Electrical, General (concentration in Computer Science), Industrial, Mechanical, and Materials Science.
ASSOCIATE IN SCIENCE DEGREE COMPUTER SCIENCE/ENGINEERING Certificate Core Requirements (CIS-Computer Science) 20 *COMP 275 Assembly Language 3 ENGR Courses 3-4 MATH 251 & 252 Analyt. Geometry & Calculus 10 PHYS 250 General Physics 4 General Education Requirements 18 Physical Education 2	ELC RECOMMENDATIONS  The Engineering Liaison Committee (ELC) strongly recommends that any transfer student from a community college complete all his/her Engineering, Mathematics, Physics, and Chemistry before going to the four-year institution.  ENGINEERING (Civil, Mechanical, Chemical, Electrical, Environmental, Materials, and Other Principal Branches)
Total 60-61  ASSOCIATE IN SCIENCE DEGREE COMPUTER SCIENCE/BUSINESS Units Certificate Core Requirements (CIS — Business) 29.5 Electives (Business courses) 10.5 General Education Requirements 18 Physical Education 2 Total 60  ASSOCIATE IN SCIENCE DEGREE COMPUTER SCIENCE/SOCIAL SCIENCE Units	RECOMMENDED TRANSFER PROGRAM Recommended High School Preparation: Mathematics (four years), Chemistry (one year), Physics (one year), Mechanical Drawing (one year).  MATH 251, 252, 253 Analytic Geometry & Calculus MATH 275 Differential Equations PHYS 250, 260, 270 General Physics CHEM 210, 220 General Chemistry ENGR 100 Engineering & Environment  2
Certificate Core Courses (CIS – Core Courses) 20 COMP 699ZZ 1 SOSC 100 Survey of the Social Sciences (Emphasis is on the impact of computers) 3 MATH 200 Statistics 4 SOSC 122 Social Science Research Methods 3 Electives Social Science (Recommended:	ENGR 200 Descriptive Geometry       2         ENGR 220 Graphics       2         ENGR 230 Vector Statics       3         ENGR 260 Circuits & Devices (with lab)       4         ENGR 270 Materials Science       3         COMP 162 FORTRAN       3
PSYC 100, ECON 100 & SOCI 100)         9           General Education Requirements         18           Physical Education         2           Total         60	(Technical Program) RECOMMENDED TRANSFER PROGRAM
TRANSFER REQUIREMENTS  Preparation for the major General Education (Cal. State Universities and U.C.)	Recommended High School Preparation: Mathematics (four years), Chemistry (one year), Physics (one year), Mechanical Drawing (one year).  ENGR 100 Engineering & Environment 2 MATH 241, 242 Applied Analytic Geometry & Calculus 10

CHEM 410, 420 Health	&	
Science Chemistry		8
PHYS 210, 220 General	Physics	8
COMP 155 BASIC		3
COMP 162 FORTRAN		3

#### **MATHEMATICS**

The Mathematics Department offers a wide variety of courses for students who wish to major in Mathematics enabling them to transfer to a university or four-year college at the end of the sophomore year. Students should consult the catalogs of the colleges of their choice for special requirements.

#### **CAREER OPPORTUNITIES**

The Mathematics major may be used as a basis for professional careers in Business, Civil Service, Industry, Research, Science and Teaching; as a preparation for advanced work in Mathematics or Engineering; or as a basis for an entry position in Computer Science.

RECOMMENDED TRANSFER PROGRAM MATH 251, 252, 253 Analytic	Units
Geometry & Calculus	
MATH 275 Differential Equations	3
MATH 270 Linear Algebra	3
COMP 162 FORTRAN	3
PHYS 210, 220 General Physics	4
Foreign Language	

## **OPHTHALMIC DISPENSING**

Associate in Science Degree with a Major in Ophthalmic Dispensing

An Ophthalmic Dispenser combines scientific and clinical procedures to fit and adapt lenses or devices to aid or correct visual deficiencies. In carrying out this role, the Ophthalmic Dispenser plays a vital part in today's health care field.

The program is a two-year sequence. The first year prepares the student in laboratory skills and lens theory while the second year is devoted to the dispensing role for both spectacles and contact lenses.

Prerequisites: High school graduation or equivalent, and written entrance examination as administered by Cañada College.

In addition to the College admission application, all students seeking entrance to the Ophthalmic Dispensing Program must complete a separate application available from the Basic and Applied Sciences Division office. Applications for new or continuing students are available each January for the following Fall Semester.

#### CAREER OPPORTUNITIES

A graduate may seek employment as an ophthalmic dispenser, contact lens fitter or technician, ophthalmic assistant or ophthalmic sales representative.

REQUIRED CURRICULUM	Units
HSCI 410 Microcomputers for the	
Health Sciences	1
MATH 410 Technical Math	3
OPTH 400 Intro. to Ophthalmic Optics	3
OPTH 411 Lab Techniques I	
The state of the s	

OPTH 412 Lab Techniques II
OPTH 431 Lenses 3
OPTH 441 Fabrication
OPTH 460 Anatomy & Physiology
of the Eye
OPTH 471 Dispensing Techniques I
OPTH 472 Dispensing Techniques II
OPTH 491 Contact Lenses I
OPTH 492 Contact Lenses II
PHYS 481 Geometric Optics
OPTH 670 Co-op. Ed
OPTH 690 Special Projects
A grade of C or better is necessary for progression in the sequence.

#### PHYSICAL EDUCATION/ ATHLETICS

The Physical Education/Athletics Department offers a variety of activity classes designed for lifetime enhancement of fitness, recreation and leisure time.

Classes in combatives, dance, individual sports, fitness and team sports are offered at various levels of performance. Beginning classes introduce an activity; intermediate to advanced courses are designed to improve an already existing skill level.

The Fitness Institute provides lectures regarding physiology and kinesiology, as well as testing to determine one's fitness level.

#### CAREER OPPORTUNITIES

Teaching/Coaching
Therapy — Physical, Occupational and Corrective
Recreation Leaders
Special Education Teachers
Fitness and Therapeutic Gym Programs
Athletic and/or Sports Management
Athletic Official

#### VARSITY ATHLETICS

Cañada College participates as a member of the Golden Gate Conference in the following sports: Men's activities—baseball, basketball, cross country, tennis, soccer. Women's activities—volleyball, cross country, softball. In order to be eligible a student must be actively enrolled in 12 units. Additional questions regarding eligibility should be addressed to the Athletic Coordinator.

#### PHYSICAL EDUCATION

RECOMMENDED TRANSFER PROGRAM	Units
Complete appropriate	10 22
prerequisite for the major	. 19-23
BIOL 110 Principles of Biology	4
ANAT 250 Anatomy	4
PSIO 260 Human Physiology	5
Physical Education Activities	4-8
Other requirements: Students should refer to the catalog	g of the
transferring institution for specific requirements for the	major.
Complete requirements for General Education	40

## PHYSICAL SCIENCES

The Physical Science Department is designed to give the student breadth in the physical sciences while providing considerable strength in one of the specialized science fields of chemistry, geology, or physics. The lower-division program in the physical science major is virtually the same as that taken in

the first two years of college by a chemistry major, physics major, or geology major, thus enabling students to transfer among these majors if they so choose. A major in physical	CHEM 210, 220 General Chemisty         10           ENGR 110 Surveying         3
science can serve as preparation for further study in technical fields and serves as an excellent background for professional	INDUSTRIAL ARTS
training in law, business, medicine, or education.	RECOMMENDED TRANSFER PROGRAM Units
CAREER OPPORTUNITIES	MATH 220 Pre-Calculus
Architect, Governmental Agencies, Drug Industry, Food	College Albegra
Industry, Computer-Related Occupations, Industrial Electronics, Petroleum Industry, Mineral Exploration, Land Use Planning,	CHEM 410 Health Science Chemistry
Construction and Manufacturing, Radiation Physicist, Meteor-	ENGR 200 Descriptive Geometry
ology, Energy Management.	The following may be required depending on transfer school:
ADCHIEFCCFURE	PHYS 220 General Physics 4
ARCHITECTURE	CHEM 420 Health Science Chemistry
RECOMMENDED TRANSFER PROGRAM Units COMP 155, 162 BASIC, FORTRAN	OCEANOGRAPHY
*MATH 241, 242 Applied Analytic Geometry & Calculus	
Geometry & Calculus	RECOMMENDED TRANSFER PROGRAM High School Preparation: Chemistry, Physics, four years of
*PHYS 210, 220 General Physics 8 Foreign Language	college prep Math. Units
ENGR 111 Surveying (CSM) 3	*MATH 251, 252, 253 Analytic
ENGR 100 Engineering & Environment	Geometry & Calculus
ENGR 220 Graphics 2	*PHYS 250, 260, 270 General Physics
ART 201 Form & Composition	*BIOL 110 Principles 4
ENGR 200 Descriptive Geometry (Recommended)	GEOL 210 General Geology 4 ZOOL 210 General Zoology 5
ART 305-3-D Design (Recommended)	BOTY 220 General Botany 5
*Math 251, 252, 253, and Physics 259, 260, 270 sequence in place of Math 241, 242 and Physics 210, 220 are recommended for	MATH 200 Elem. Probability & Statistics
those contemplating transfer to California State Polytechnic	*(Minimum requirements—Humboldt State Univ.)
Colleges.	PHYSICS
CHEMICTRY	RECOMMENDED TRANSFER PROGRAM
CHEMISTRY	High School Preparation: Physics, Chemistry, four years of
RECOMMENDED TRANSFER PROGRAM Units MATH 251, 252, 253 Analytic	college preparatory Math. Units
Geometry & Calculus	MATH 251, 252, 253 Analytic Geometry & Calculus
MATH 275 Ordinary Differential Equations	MATH 275 Differential Equations
CHEM 210, 220 General Chemistry	COMP 162 FORTRAN
CHEM 250 Quantitative Analysis	PHYS 250, 260, 270 General Physics
CHEM 231 Organic Chemistry 5 Foreign Language	
	RADIOLOGIC TECHNOLOGY
ELECTRONICS	(X-Ray Technology)
RECOMMENDED TRANSFER PROGRAM Units	Associate in Science Degree with a Major in
ENGR 100 Engineering & Environment	Radiologic Technology
MATH 251, 252, 253 Analytic	Completion of the program enables the student to write the examination given by the American Registry of Radiologic
Geometry & Calculus	Technologists and the certification examination for licensure
COMP 162 FORTRAN	required by the State of California. Basic science and general
CHEM 210, 220 General Chemistry	education courses are given on the Cañada campus, with concurrent clinical education at one of the affiliating hospitals.
BUS 100 Survey of Business	Prerequisites: High school graduation or equivalent and
GEOLOGY	written entrance examination as administered by Cañada College. Completion of a course in algebra within three years, a
RECOMMENDED TRANSFER PROGRAM Units	course in Chemistry or Physics with laboratory, and Biology
MATH 251 252 Analytic	with laboratory.
Geometry & Calculus	In addition to the College admission application, all students seeking entrance to the Radiologic Technology Program must
PHYS 210, 220 General Physics 8 GEOL 210 General Geology	complete a separate application available from the Basic and
GEOL 220 Historical Geology 4	Applied Sciences Division Office. Applications for new or
or GEOL 110 Geological Hazards	continuing students are available each January for the following Fall Semester.
	N 000 CO

CAREER OPPORTUNITIES

Job opportunities exist in physicians' offices, hospitals and clinics.

CHITICS.	
REQUIRED CURRICULUM	Units
ANAT 250 Anatomy* PHYS 405 Radiation	
MATH 410 Math for Technology*	
ENGL 100 Composition*	
PSIO 256 Principles of Physiology	4
RADT 495 Nursing for	
Radiographers	2
RADT 400 Orientation	3
RADT 410 Positioning	3
RADT 420 Exposure	2
RADT 430 Radiation Health	
& Protection	3
RADT 440 Advanced Techniques	3
General Education	9
Physical Education	2
A grade of "C" or better is necessary for progression	in the
sequence.	
RADT 418, 428, 438, 448, 458	28
These are Clinical Education Labs which total 2,000 hou	irs and
accompany Radiological Technology courses.	( th-
*May be used to satisfy general education requirements	for the
A.S. Degree.	

## 36 BUSINESS/SOCIAL SCIENCES DIVISION

The Business/Social Sciences Division offers courses and programs through a number of departments. The following departments comprise the Division:

Accounting Administration of Justice Anthropology **Business Administration** Computer Science/Social Science Early Childhood Education Economics Geography History Home Economics Integrated Information Processing Interior Design Management Microcomputer Technician Office Administration\* Paralegal Philosophy Political Science Psychology Social Science Sociology Tourism Word Processing\* \* See Integrated Information Processing.

#### **ACCOUNTING**

The Accounting Department offers a transfer curriculum to a four-year university, an A.S. Degree and a para-professional certificate program designed to give the students both formal and practical training in accounting. The transfer program is the same as the business transfer program. The accounting A.S. degree and certificate programs are designed to give students enough practical experience so that they can secure a position in either the public, governmental or private accounting sector when they have completed the recommended 22.5—26.5 units. Emphasis in this program will be on accounting theory and practices and how to actually operate an accounting system. There is emphasis placed on "hands-on" training. Courses specifically required for the student's major must be evaluated by a letter grade, not by the credit (CR) grade.

#### RECOMMENDATIONS

It is recommended that students who have not completed a bookkeeping course in high school or who have had no accounting experience or feel they would have difficulty in completing a college level accounting course, enroll in ACTG 100 prior to taking any of the core courses in the certificate program. In addition, any student who has not completed Business Math or Algebra in high school with a 'C' or better should enroll in BUS. 115 (Business Mathematics) concurrently with any of the courses in the certificate program.

#### CAREER OPPORTUNITIES

The accounting profession offers many opportunities to an individual who has completed either a B.A. Degree, an A.S. Degree or a Certificate Program. For those individuals who go on to a four-year university, career opportunities are available as a certified public accountant in the governmental sector and in the private business sector in many staff accounting positions. For those individuals who complete an A.S. Degree and/or a certificate there are positions available as bookkeepers, accounts payable and accounts receivable supervisors, general ledger and payroll supervisors and manufacturing accountants. These opportunities offer a wide range of salaries and further job advancement.

#### TRANSFER PROGRAM

See Business Administration.

#### A.S. DEGREE PROGRAM

THE PERIOD AND THE PE	
CORE REQUIREMENTS BUS. 100 Survey of Business ACTG 121 Financial Accounting ACTG 180 Payroll & Business Taxes ACTG 212 Manufacturing Accounting or ACTG 131 Managerial Accounting BUS. 103 Intro. to Bus. Computer Systems Total	3 .4-5 3 .3-5 3 .6-19 18
ACCOUNTING CERTIFICATE PROGRAM BUS. 100 Survey of Business ACTG 100 Accounting Procedures or ACTG 121 Financial Accounting ACTG 190 Computerized Accounting BUS. 415 Computer Keyboarding ACTG 212 Manufacturing Accounting or ACTG 131 Managerial Accounting ACTG 180 Payroll & Business Taxes Total 16.5- Electives from list below Total 22.5-	3-5 3 1.5 3-5 3 20.5 6
SUGGESTED ELECTIVES  BUS. 201 Business Law  OFAD 401 Business Communications  BUS. 670 Cooperative Ed  ACTG 171 Individual Federal Income Tax Procedures  BUS. 103 Intro. to Bus. Computer Systems  BUS. 434 Microcomputer Spreadsheet Lotus 1-2-3‡  ‡ Lotus Dev. Corp.™	3 1-4 3

#### ADMINISTRATION OF JUSTICE

Administration of Justice is a multi-faceted discipline which addresses the pervasive problem of crime and delinquency by drawing from law, sociology, psychology, political science, public administration, and the natural sciences. The discipline deals with a survey of the criminal justice system and a close look at corrections, the causes of crime, the prevention and control of deviant behavior, and the law as it affects the community as a whole. Students interested in a program with this emphasis should contact their counselor.

#### CAREER OPPORTUNITIES

Career opportunities exist in the following areas: rehabilitation, probation, officers, caseworkers, psychotherapists, interpreters and translators, crime statisticians, drug and alcohol counselors, juvenile hall counselors, correctional officers, correctional counselors, group workers, and criminal justice researchers. Most of these career opportunities require education beyond the A.A. degree.

#### TRANSFER PROGRAM

Many job opportunities in the corrections field require a B.A. or advanced degree. Students can fulfill general education and lower division Science and Social Science requirements at Cañada.

#### **ANTHROPOLOGY**

Anthropology is the study of peoples of the world from prehistoric to contemporary times. It is concerned with the variability of human populations and their biocultural history. Physical Anthropology concentrates on various biological characteristics, and Cultural Anthropology on socially learned traits.

#### **CAREER OPPORTUNITIES**

In addition to careers as a cultural or physical anthropologist, students might become ethnologists, archeologists or linguists. Other possibilities include environmental impact analyst, museum curator, redevelopment specialist, ethnic relations specialist, expedition guide, industrial consultant, urban planner, exhibit designer, population analyst, social services consultant, and cultural resource manager.

#### TRANSFER PROGRAM

Most job opportunities in anthropology require a B.A. or advanced degree. Students can fulfill General Education and lower division science and social science requirements at Cañada. Electives in anthropology provide opportunities to explore native American and Spanish-speaking ethnic groups in particular.

RECOMMENDED TRANSFER PROGRAM					U	n	it	8
ANTH 105 Peoples and Cultures								
of the World								
ANTH 110 Cultural Anthropology				 				3
ANTH 125 Physical Anthropology				 			. 3	3
BIOL 130 Human Biology								1
ECON 100 Principles of Macro Economics				 				3
ECON 102 Principles of Micro Economics							. 1	3
PHIL 100 Introduction to Philosophy				 	i.			3
SOSC 122 Social Science Research Methods								
SOCI 100 Introduction to Sociology						+		3

#### **ASSOCIATE IN ARTS DEGREE PROGRAM**

Students wishing an A.A. degree in Anthropology must complete 60 units of lower division college work with a minimum overall grade point average of 2.0. Courses in Natural Science, Social Science, Humanities, Learning Skills, and Ethnic Studies areas (minimum of one in each) must be taken. In addition, students will take 18–24 units in the area of concentration, with the balance of the 60 units in elective courses.

#### 

#### BUSINESS ADMINISTRATION

The Business Administration Department offers a transfer program, an A.S. Degree and a Certificate Program for those students who wish a more general business background. The transfer program is the same for all business transfer programs and is listed below. The A.S. Degree and the Certificate Program try to develop a very general business awareness in the student. Courses specifically required for the student's major must be evaluated by a letter grade, not by the credit (CR) grade.

#### CAREER OPPORTUNITIES

The career opportunities available to a student who majors in Business Administration are diverse. The breadth of courses in this major prepares students for opportunities to work in a wide variety of positions.

RECOMMENDED TRANSFER PROGRAM PREPARATION FOR MAJOR ACTG 121 Financial Accounting		Units
ACTG 131 Managerial Accounting		4-5
BUS. 103 Intro. to Bus. Computer Systems		3
BUS. 201 Business Law		
ECON 100 Macro Economics		
ECON 102 Micro Economics		
MATH 125 Elem Finite Math*		
or		
MATH 126 Finite Math with		3
Computer Applications*		5
MATH 200 Statistics		4
MATH 241 Applied Anal.		
Geometry and Calculus*		5
MATH 242 Applied Anal.		
Geometry and Calculus*		5
Please consult with your counselor and the catalo	2 0	of the
university or college you wish to attend for specific	re	quire-
ments.		
ATT Math courses are not required by all universe	itio.	c and

\*These Math courses are not required by all universities and colleges. Please consult with your counselor for recommendations as to whether or not these courses are required by the university or college to which you intend to transfer.

#### A.S. DEGREE - BUSINESS ADMINISTRATION

Select courses from certificate program, refer to graduation requirements, and consult your counselor.

CERTIFICATE PROGRAM—		
BUSINESS ADMINISTRATION	Units	S
ACTG 121 Financial Accounting	4-5	5
BUS. 100 Survey of Business		3
BUS. 101 Human Relations		
in Business		3
BUS. 103 Intro. to Bus. Computer Systems		
BUS. 115 Business Math or		
MATH 120 Interm. Algebra & Review	3-	5
BUS. 201 Business Law		3
OFAD 401 Business Communications		
BUS. 434 Microcomputer Spreadsheet Lotus 1-2-3‡		
‡ Lotus Dev. Corp. **		
Total	5-2	8

## EARLY CHILDHOOD EDUCATION

Cañada's Early Childhood Education Program is designed so that persons interested in working with young children may develop the necessary skills, as well as strengthen and broaden their own backgrounds. Developmental trends, program planning, and parent education are aspects of the program. The curriculum focuses on physical, socio-emotional, and cognitive growth and development from infancy to ten years of age. Current research and practical application are combined in order to assist students in the planning of effective environments for children. A distinctive feature of this program is that students observe and work with children in a variety of community settings.

#### CAREER OPPORTUNITIES

Career opportunities in early childhood education include preschool teacher or director, child development specialist, infant caregiver, home advisor in Head Start Programs, Family Day Care Provider, parent education or adult education instructor, birth educator, group home worker, community worker in a child abuse program, migrant program teacher, hospital playroom supervisor, children's books representative, and adoption counselor.

Depending on the particular career interest, students may

need to pursue advanced education.

During the 1980s and 1990s, it is predicted that related subject areas may be particularly supportive to an ECE background. These include: infant development, nutrition, Special Education, and microcomputers for curriculum development. Students also considering their own ECE business would be wise to consider course work in accounting and money management.

#### TRANSFER PROGRAM

Students planning to transfer to four-year colleges and universities should consult those catalogs for additional information concerning Early Childhood Education. Course work should be planned to meet the lower division general education requirements.

RECOMMENDED TRANSFER PROGRAM	U	nit	s
PSYC 100 General Psychology		3	3
PSYC 201 Child Development	 n	3	3
ECE./PSYC 210 Early Childhood Education		-	
Principles			2
ECE./PSYC 211 Early Childhood Education			1
Curriculum		-	2
ECE./PSYC 212 Child, Family and Community			2
Community			,

#### CERTIFICATE PROGRAM IN

Any of the following courses may be selected for a total of 24 units:
ECE./PSYC 210 Early Childhood Education Principles
ECE./PSYC 211 Early Childhood Education
Curriculum 1–3 ECE./PSYC 212 Child, Family and Community 3
ECE. 230 Creative Activities for the Young Child
EC la 740* Englis Childhead Edwards
Administration I (business/legal)  ECE. 241 Early Childhood Education  Administration I (business/legal)  3
Administration II (human relations)
Administration II (human relations)
ECE. 245 Teaching & Management
Internship I
1111CHISHIP II
ECE. 311 Nutrition for Young Children
ECE. 670 Cooperative Education
ECE. 680 Special Topics in ECE
ECE. 690 Special Project
PSYC 201 Child Development
PSYC 221 The Special Child
PSYC 223 Infant Behavior
PSYC 391 Parenting
BIOL III Nature Study
12 units of course work (or equivalent experience) suggested
prerequisite.

#### SPECIAL PERMITS OR CREDENTIALS

CHILD DEVELOPMENT ASSOCIATE CREDENTIAL (CDA)

Several of the core courses have been divided into modules to meet the supplementary training requirement of the Child Development Associate Credential (CDA), needed particularly by Head Start Programs. Special Education and Infancy electives are available in an effort to acknowledge the growing emphasis on "mainstreaming" handicapped in early childhood education settings and the need for early awareness of developmental trends.

#### CHILDREN'S CENTER INSTRUCTIONAL PERMIT

Cañada's program is also designed so that students wishing to work toward the California State requirements for the Regular Children's Center Instructional Permit may do so. The Permit

24 semester units of Early Childhood Education/Child Devel-

opment course work (excluding field work).

 16 semester units of General Education. One year of supervised field work or two years in a child development program. (This may be fulfilled under ECE. 670, Cooperative Education.)

CBEST (California Basic Educational Skills Test)

The Permit is issued for five years, renewable for successive five-year periods. The Life Permit requires a bachelor's degree.

#### SUPERVISION PERMIT

Six units of Administration course work are available so that any student deemed eligible to hold a regular children's center permit and possessing a bachelor's degree, including an additional 12 units of ECE/Child Development, may acquire the Children's Center Supervision Permit.

Permit application is made through the County Office of

Education, Redwood City, California.

#### TEACHING AND MANAGEMENT INTERNSHIP PROGRAM

This new component to Cañada's ECE Program is designed for the experienced early childhood education/child development major. It was developed in cooperation with the Bing School at Stanford University, which serves as the training setting. Students participate on a Bing teaching team and attend a weekly management seminar. Individual contracts are constructed with the supervisors and eligible students, depending on their educational and experiential backgrounds. Units apply toward the ECE Certificate, the Children's Center Instructional Permit, or the Children's Center Supervisory Permit. For more detail, see course descriptions ECE. 245 and ECE. 246

#### **ECONOMICS**

Economics is a social science concerned with the way people make a living. It is the study of structures and roles in society which influence the production, distribution, scarcity, and consumption of goods and services.

#### CAREER OPPORTUNITIES

In addition to a career as an economist, students can specialize as research, commodity, manpower, project, energy, transportation, or international economists, and natural resource consultants. Other possibilities include marketing specialists, budget analysts, market analysts, labor relations arbitrators, or industrial relations specialists.

#### TRANSFER PROGRAM

Most job opportunities require at least a B.A. degree. Students can fulfill General Education and lower division social science, mathematics, and business electives at Cañada.

RECOMMENDED TRANSFER PROGRAM	Units
ECON 100 Principles of Macro Economics	3
ECON 102 Principles of Micro Economics	. 3
ECON 230 Economic History of United States	3
ACTG 121 Financial Accounting	4-5
ACIG 131 Managerial Accounting	4-5
MATH 125 Elementary Finite Math	3
MATH 241/242 Applied Anal.	
Geometry and Calculus	10
SOSC 122 Social Science Research Methods	3

#### ASSOCIATE IN ARTS DEGREE PROGRAM

Students wishing an A.A. Degree in Economics must complete 60 units of lower division college work with a minimum overall grade point average of 2.0. Courses in natural science, social science, humanities, learning skills, and ethnic studies areas (minimum of one in each) must be taken. In addition, students will take 18–24 units in the area of concentration, with the balance of the 60 units in elective courses.

#### **GEOGRAPHY**

Geography provides insights about the earth as the human habitat. It is a way of looking at the earth, not an inventory of its contents. This viewpoint rests on fundamental interlocking concepts. The cultural appraisal of the earth, the regional concept, areal coherence, human ecology, spatial interaction, study of landscape and the concept of change are all ways the geographer tries to better understand the environment.

#### CAREER OPPORTUNITIES

In addition to a career as a geographer, geographic analyst, geographic planner, or agricultural geographer, other possibilities include cartographer, climatologist, ecologist, environmental scientist, soil conservationist, demographer, land use, urban or recreational resource planner.

#### TRANSFER PROGRAM

Many job opportunities in Geography require at least a B.A. Degree. Students can fulfill General Education and lower division social science and science requirements at Cañada.

RECOMMENDED TRANSFER PROGRAM Un	its
GEOG 100 Physical Geography	3
GEOG 110 Cultural Geography	
GEOG 150 World Regional Geography	3
ANTH 110 Cultural Anthropology	3
ANTH 125 Physical Anthropology	
ECON 100 Principles of Macro Economics	
ECON 102 Principles of Micro Economics	
GEOL 210 General Geology	
GEOL 220 Historical Geology	
HIST 201 United States History to 1865	
HIST 202 United States History since 1865	
SOCI 100 Introduction to Sociology	3

#### ASSOCIATE IN ARTS DEGREE PROGRAM

Students wishing an A.A. Degree in Geography must complete 60 units of lower division college work with a minimum overall grade point average of 2.0. Courses in natural science, social science, humanities, learning skills, and ethnic studies areas (minimum of one in each) must be taken. In addition, students will take 18–24 units in the area of concentration, with the balance of the 60 units in elective courses.

#### **HISTORY**

History is the story of our common human experience. Without it we are amnesia victims in a world that demands our fullest understanding and deepest wisdom. This discipline examines people, institutions, ideas and events, past and present, and provides a foundation to plan for the future.

#### CAREER OPPORTUNITIES

In addition to a career as a historian, other possibilities include pre-law/lawyer, pre-theology/clergy, foreign service, archivist, museum curator, librarian, communications, market research, historical societies, consultant, and writer.

#### TRANSFER PROGRAM

Cañada's history offerings cover a wide range, from general surveys of Western Civilization and United States History to courses in such specific areas as California, Latin America, Africa, and the Far East, and such special topics as religion, women, minorities and genealogy.

women, minorities and genealogy.

A major in history leads to many possible careers, particularly in law, government, foreign service, teaching, research, writing, and television or journalistic news analysis. Many job opportunities require at least a B.A. Degree. Students can fulful General Education and lower division social science requirements at Cañada.

RECOMMENDED HIGHIOI EN TROCKE	Inits
HIST 100 History of Western Civilization	3
HIST 101 History of Western Civilization	3
HIST 201 United States History to 1865	3
HIST 202 United States History since 1865	
HIST 421 History of Americas	3
HIST 422 Modern Latin America	3
ANTH 110 Cultural Anthropology	
ECON 100 Principles of Macro Economics	3
GEOG 100 Physical Geography	3
SOCI 100 Introduction to Sociology	3
SOSC 122 Social Science Research Methods	3

#### ASSOCIATE IN ARTS DEGREE PROGRAM

Students wishing an A.A. Degree in History must complete 60 units of lower division college work with a minimum overall grade point average of 2.0. Courses in natural science, social science, humanities, learning skills, and ethnic studies areas (minimum of one in each) must be taken. In addition, students will take 18-24 units in the area of concentration, with the balance of the 60 units in elective courses.

#### HOME ECONOMICS

The Home Economics Department provides educational preparation for transfer majors in Home Economics and for occupations involving textiles, fashion, clothing, alterations and dressmaking, household equipment, consumer relations, foods, nutrition, home management, and family relations. A.S. degrees are offered in Home Economics and in Textiles and Clothing. The Home Economics Department also offers certificate programs in General Home Economics and in Textiles and Clothing (emphasis on custom dressmaking and apparel design).

The curriculum provides for individual development in con-

The curriculum provides for individual development in consumer and homemaking skills, as well as career education. Computer applications will be available for the Home Economics field of instruction.

#### CAREER OPPORTUNITIES

There is a variety of career opportunities available to Home Economics majors in education, extension work, consumer product testing and promotion, consumer protection, family welfare, nutrition and dietetics, clothing and fashion design, clothing production and merchandising, and family service. The Textiles and Clothing certificate provides training leading to work in dress designing, custom dressmaking, alterations, fashion consulting, fashion merchandising, and textile merchandising.

## RECOMMENDED TRANSFER PROGRAM PREPARATION FOR GENERAL HOME ECONOMICS MAJOR H.E. 111 Techniques of Fit\* 3 H.EC 113 Textiles 3 H.EC 115 Intermed. Clothing Construction 3 H.EC 310 Nutrition 3 H.EC 416 Consumer Decision Making 3 INTD 115 Your Home & Your Environment 3

PSYC 100 General Psychology 3 PSYC 201 Child Development 3	H.EC 127 Custom Dressmaking         1.           H.EC 150 History of Fashion         1-
PSYC 212 Child Family and Community	15 units from Group B: H.EC 117 Fashion Image H.EC 118 Flat Pattern Design H.EC 120 Creative Clothing Const. H.EC 123 Intro. to Fashion Industry H.EC 124 Art in Clothing H.EC 151 Fashion Merchandising
A.S. DEGREE PROGRAM IN HOME ECONOMICS This program leads to a 2-year degree in Home Economics. Most but not all courses are transferable to a 4-year college. Consult your counselor concerning fulfilling requirements.	H.EC 410 Management of Time & Resources H.EC 420 Computer Applications/H. Mgt. Selected construction electives, including: H.EC 699 Clothing Construction Lab Total  O.5-4
CORE REQUIREMENTS H.EC 111 Techniques of Fit 3 H.EC 115 Intermediate Clothing Const. 3 and/or H.EC 116 Advanced Construction/Tailoring 3 H.EC 117 Fashion Image 3 H.EC 307 Food Preparation 3 or	SUGGESTED ELECTIVES FOR TRANSFER AND A.S. DEGREE PROGRAMS H.EC 110 Beg. Clothing Construction H.EC 113 Textiles H.EC 312 Nutrition/Health/Disease H.EC 699 Open Lab for Clothing Const. INTD 115 Your Home & Your Environment PSYC 201 Child Development
H.EC 320 Applied Nutrition Cooking for Health	INTEGRATED INFORMATION PROCESSING
H.EC 416 Consumer Decision Making or BUS. 131 Money Management	The Integrated Information Processing Department prepares students for both entry-level positions and supervisory roles in office administration. The department prepares students to develop and organize information through the application of computer/office technology. A.S. Degree and certificate programs are offered by the the College. Courses specifically required for the student's major must be evaluated by a letter grade, not by the credit (CR) grade.
of H.Ec.) 21 Total 60  A.S. DEGREE IN TEXTILES & CLOTHING Units Core requirements same as A.S. degree in H.Ec. 21 General Ed. Requirements same as in H.Ec. 18 Additional requirements: H.EC 113 Textiles 3	CAREER OPPORTUNITIES  Graduates can look forward to placement doing rewarding work in a dynamic field involving computers and people. There will be opportunities for advancement to middle-level management, excellent salary and benefits, opportunities to live and work in all parts of the country and the world, and opportunities to work in offices of various organizations and industries—large or small, public or private.
H.EC 118 Flat Pattern Design 3 H.EC 123 Intro. to Fashion Industry or H.EC 150 History of Fashion 1-3	OPTION ONE CERTIFICATE PROGRAM
H.EC 120 Creative Clothing Const.       3         Electives       9-11         Total       60	GENERAL OFFICE  The General Office option is for individuals who wish
CERTIFICATE PROGRAM— GENERAL HOME ECONOMICS Core H.EC courses (same as A.S. Degree) Electives in Home Economics Total  CERTIFICATE PROGRAM— Units 21 22	employment in entry-level positions such as clerk-typist or general business offices.  OFAD 110 Intermediate Typewriting
CERTIFICATE PROGRAM — TEXTILES & CLOTHING (Emphasis on custom dressmaking & apparel design) Units	BUS. 432 Microcomputer WP: WordStart or BUS. 433 Microcomputer WP: Displaywrite
15 units from Group A: H.EC 110 Beg. Clothing Construction 3 H.EC 111 Techniques of Fit 1-3 H.EC 112 Knits & Wovens 1-3 H.EC 113 Textiles 3 H.EC 115 Intermed Clothing Const 3 H.EC 116 Advanced Construction/Tailoring 3 H.EC 125 Alterations 1.5	OFAD 400 Business English OFAD 401 Business Communications OFAD 412 Filing and Records Management BUS. 101 Human Relations in Business BUS. 420 Intro. to APPLE Computer or BUS. 430 Intro to IBM/PC OFAD 450 The Integrated Office 1-3 Total  **Total**  **
	The state of the s

#### A.S. DEGREE - GENERAL OFFICE

Select courses from certificate program, refer to graduation requirements and consult your counselor.

#### RECOMMENDED ELECTIVES

ACTG 100, BUS. 100, BUS. 110 or BUS. 115, BUS. 415, BUS. 421 or BUS. 424, OFAD 331, OFAD 334.

#### **OPTION TWO**

#### **CERTIFICATE PROGRAM** OFFICE ADMINISTRATION

The Office Administration option is for individuals who wish employment in entry-level secretarial positions.

Units
BUS. 101 Human Relations in Business 3
OFAD 110 Intermediate Typewriting
OFAD 240 Shorthand Enrichment
OFAD 300 WP: Machine Transcription 2-4
OFAD 332 Basic Word Processing (Wang) and
OFAD 333 Inter. Word Processing (Wang)
or
BUS. 432 Microcomputer WP: WordStart or
BUS. 433 Microcomputer WP: Displaywrite
OFAD 400 Business English
OFAD 401 Business Communications
OFAD 412 Filing and Records Management 1.5
BUS. 420 Intro. to APPLE Computer or
BUS. 430 Intro to IBM/PC
OFAD 450 The Integrated Office
Total
†MicroPro™

#### A.S. DEGREE - OFFICE ADMINISTRATION

Select courses from certificate program, refer to graduation requirements and consult your counselor.

#### RECOMMENDED ELECTIVES

ACTG 100, BUS. 100, BUS. 103, BUS. 115, BUS. 201, BUS. 415, BUS. 421, BUS. 434, OFAD 331, OFAD 333, OFAD 334, COMP 670, MGMT 225.

#### **OPTION THREE**

#### CERTIFICATE PROGRAM

ADMINISTRATIVE ASSISTANT

The Administrative Assistant option is for individuals who wish to prepare for top-level secretarial and administrative assistant positions working closely with management in any type of business, professional, educational, and industrial office. PREREQUISITE: Completion of Office Administration Certifi-

cate option or equivalent training or experience.	
ACTG 100 Principles of Accounting or	Units
ACTG 121 Financial Accounting	. 3-5
BUS. 101 Human Relations in Business	
BUS. 103 Introduction to Bus. Computer Systems	3
BUS. 201 Business Law	
ECON 100 Principles of Macro Economics	
ECON 102 Principles of Micro Economics	
MGMT 225 Office Management	
MGMT 235 Techniques of Supervision	
OFAD 331 Intro. to Word Processing Concepts	
Total	

#### A.S. DEGREE—ADMINISTRATIVE ASSISTANT

Select courses from certificate program, refer to graduation requirements and consult your counselor.

#### RECOMMENDED ELECTIVES

BUS. 100, BUS. 115, BUS. 415, BUS. 421, BUS. 434, ACTG 190, MGMT 100, MGMT 120, MGMT 136, MGMT 137, MGMT 215

#### **OPTION FOUR**

#### CERTIFICATE PROGRAM

WORD/INFORMATION PROCESSING

The Word/Information Processing option is for individuals who wish employment in word/information processing positions in general business offices, law firms, insurance companies, and other businesses that use text-editing and information processing equipment.

	iits
OFAD 110 Intermediate Typewriting OFAD 300 WP: Machine Transcription 2 OFAD 331 Intro. to Word Processing Concepts	
Concepts OFAD 400 Business English OFAD 412 Filing & Records Management BUS. 101 Human Relations in Business BUS. 103 Intro. to Bus. Computer Systems BUS. 420 Intro. to APPLE Computer	1.5
or BUS. 430 Intro to IBM/PC	1.5
Area A or Area B (see lists below)	. 6
	1.5 1.5
	nits
BUS. 432 Microcomputer WP: WordStart or BUS. 433 Microcomputer WP: Displaywrite	. 3
BUS. 434 Microcomputer Spreadsheet LOTUS 1-2-3‡ or BIS. 436 Data Base Management: dBase †MicroPro™ ‡Lotus Dev. Corp™	. 3
A.S. DEGREE—WORD PROCESSING	

Select courses from certificate program, refer to graduation requirements and consult your counselor.

#### RECOMMENDED ELECTIVES

BUS. 415, BUS. 421, OFAD 145, OFAD 401, OFAD 450, MGMT 225, MGMT 235.

#### INTERIOR DESIGN

The Interior Design Department offers programs designed for individuals interested in preparing for careers in the professional fields of interior design, home furnishings and merchandising. Included in this program are a transfer program, an A.S. Degree program, a Kitchen and Bath Certificate Program, and four certificated programs to meet the minimum qualifying requirements for the American Society of Interior Designers' Associate membership.

#### CAREER OPPORTUNITIES

The opportunities for an individual in the interior design profession fall into two major categories: 1) residential interior design, and 2) commercial (contract, office, industrial) design. Interior designers work as self-employed designers, as consultants in design firms, and in many home furnishings fields. Opportunities exist in merchandising, sales, manufacturing, fabricating, importing, exporting, and in wholesale and retail businesses.

RECOMMENDED TRANSFER PROGRAM PREPARATION FOR MAJOR  ART 101 History of Art I	ELECTIVES (Recommended)         Units           ART 214 Color         3           ART 231 Watercolor         3           BUS. 430 Intro to IBM/PC         1.5           INTD 180 Contract Design         3           INTD 270 Fundamentals of Kitchen Design         3           INTD 274 Remodeling Construction         3           INTD 278 Marketing & Salesmanship         3           INTD 320 Oriental Art/China & Korea         1           INTD 321 Oriental Art/Japan & S.E. Asia         1           INTD 322 Oriental Art/Ind., Jap., Phil         1           INTD 411 Home Decorating         3
preparations required for a major leading to a B.A. or B.S. Degree.  CORE CURRICULUM	IN INTERIOR DESIGN/RESIDENTIAL For students who have completed an A.S. Degree in Interior Design at Canada College, this certificate may be applied toward an associate membership in A.S.I.D.
(recommended sequence) INTD 115 Your Home & Environment 3 INTD 148 Color for Interiors 3 ART 201 Form & Composition or ART 301 Design or ART 204 Drawing 3 INTD 125 Detailing Interiors 3 INTD 140 Descenting Techniques 3	CORE REQUIREMENTS (recommended sequence)  INTD 245 Internship in Home Furnishing INTD 320 Oriental Art/China & Korea INTD 321 Oriental Art/Japan & S.E. Asia INTD 322 Oriental Art/Ind., Jap., Phil INTD 260 Fundamentals of Lighting INTD 270 Fundamentals of Kitchen Design 3 ART 103 History of Modern Art 3
INTD 160 Decorating Techniques  ARCH 110 Basic Architectural Drawing  3 INTD 150 History of Interiors  3 INTD 450 Home Furn. Consumer (Fall only)  3 INTD 147 Space Planning  3 ART 320 Systems of Perspective  3 INTD 146 Graphics for Interiors  3 INTD 170 Fabrics for Interiors (Spring only)  3 INTD 250 Professional Practices (Fall only)  3	ART 110 Art Appreciation/Intro. to Art
INTD 245 Internship in Home Furnishings	ELECTIVES (Recommended)         Units           ART 214 Color         3           ART 231 Watercolor         3           BUS. 420 Intro. to APPLE Computer         1.5           BUS. 430 Intro. to IBM-PC         1.5           INTD 271 Fundamentals of Bath Design         2           INTD 274 Remodeling Construction         3           INTD 276 Adv. Kitchen & Bath Design         3
CERTIFICATE PROGRAM/WITH EARNED A.S. DEGREE INTERIOR DESIGN/COMMERCIAL DESIGN For students who have completed an A.S. Degree in Interior Design at Cañada College, this certificate may be applied toward an associate membership in A.S.I.D.	INTD 411 Home Decorating 3 INTD 670 Coop. Education 1-4 INTD 690 Individual Projects 1-4 CERTIFICATE PROGRAM IN INTERIOR DESIGN/ RESIDENTIAL WITH EARNED B.A OR B.S. DEGREE
CORE REQUIREMENTS (recommended sequence) Units INTD 260 Fundamentals of Lighting (Spring only)	For students who have completed a B.A. or B.S. Degree in other disciplines. This certificate may qualify the student for an associate membership in A.S.I.D.
ART 103 History of Modern Art  or  ART 110 Art Appreciation/Intro. to Art  INTD 156 Portfolio/Projects (Spring only)  3 INTD 245 Internship (any time after  1st Semester)  2 INTD 271 Fundamentals of Bath Design  2 INTD 350 Commercial Design	CORE REQUIREMENTS (recommended sequence) INTD 115 Your Home & Environment
INTD 350 Commercial Design 3 INTD 351 Advanced Commercial Design 3 INTD 354 Residential Building Systems 1.5 INTD 355 Commercial Construction 1.5 INTD 360 Computers for Interior Design (CAD) 3 Electives 6 Total 30	ART 301 Design 3 INTD 125 Detailing Interiors 3 ARCH 110 Basic Architectural Drawing 3 INTD 150 History of Interiors 3 INTD 450 Home Furn. Consumer (Fall only) 3 INTD 147 Space Planning 3 ART 320 Systems of Perspective 3

INTD 170 Fabrics for Interiors (Spring only)  INTD 278 Marketing & Salesmanship  3 INTD 146 Graphics for Interiors  3 INTD 260 Fundamentals of Lighting (Spring only)  2 INTD 320 Oriental Art/China & Korea  1 INTD 321 Oriental Art/Japan & S.E. Asia 1 INTD 322 Oriental Art/India, Japan, Philippines  1 ART 103 History of Modern Art  or  ART 110 Art Appreciation/Intro. to Art  3 INTD 250 Professional Practices (Fall only)  or	CORE REQUIREMENTS (recommended sequence) (INTD 115 Your Home & Environment 3 INTD 270 Fundamentals of Kitchen Design 3 ARCH 110 Basic Architect. Drawing 3 INTD 148 Color for Interiors 3 INTD 146 Graphics for Interiors 3 INTD 274 Remodeling Construction 3 INTD 274 Internship in Home Furnishing 1 INTD 260 Fundamentals of Lighting 2 INTD 276 Adv. Kitchen & Bath Design 3 INTD 278 Marketing & Salesmanship 3 INTD 270 Professional Practices 3 INTD 271 Fundamentals of Bath Design 2 Total 32
INTD 350 Commercial Design 3 INTD 156 Portfolio/Projects (Spring only) 3 INTD 245 Internship (any time after 1st Semester) 2 INTD 270 Fundamentals of Kitchen Design 3 INTD 271 Fundamentals of Bath Design 2 Electives 1 Total 60 CERTIFICATE PROGRAM IN INTERIOR DESIGN/ COMMERCIAL DESIGN For those students Won have completed a B.A. or B.S. Degree in other disciplines. This certificate may qualify the student for	MANAGEMENT  The Management Program is designed to provide students with the basic underlying principles of management. Cañada College offers an A.S. Degree in management, and two management certificates. The courses are primarily for those students who plan careers in management or who are already in supervisory positions and wish to increase their formalized learning in this subject area. Courses cover both business and public sector organizations. Courses specifically required for the student's major must be evaluated by a letter grade, not by the credit (CR) grade.
in other disciplines. This certificate may qualify the student for Associate Membership in A.S.I.D.  CORE REQUIREMENTS (recommended sequence) INTD 115 Your Home & Environment	CAREER OPPORTUNITIES  The career opportunities for those with supervisory and management training are expected to be excellent during the foreseeable future. Increasingly, employers are seeking persons with formal training in organization and management for supervisorial, mid-level, and top management positions.  A.S. DEGREE AND CERTIFICATE PROGRAMS  The certificate in management can be earned in two specific areas: General Management and Public Administration. The certificate will be awarded by Cañada College upon completion of the required courses, plus additional electives totaling a minimum of 24 units. The 24 units earned in the certificate program will fulfill the major requirements for an A.S. Degree.  A.S. DEGREE  CORE CURRICULUM  MGMT 100 Management Theory  MGMT 215 Management of Human Resources  3 MGMT 220 Organizational Behavior  3 MGMT 235 Techniques of Supervision  3 General Educ. Requirements
ART 103 History of Modern Art  or  ART 110 Art Appreciation/Intro. to Art	Electives (15 must be in the Mgmt. or business field) Total 60  CERTIFICATE PROGRAMS GENERAL MANAGEMENT CERTIFICATE CORE REQUIREMENTS Units MGMT 100 Management Theory 3 MGMT 215 Management of Human Resources 3 MGMT 220 Organizational Behavior 3 MGMT 235 Techniques of Supervision 3 Plus, select 12 units from the following: ACTG 121 Financial Accounting ACTG 121 Financial Accounting BUS. 101 Human Relations BUS. 103 Intro. to Business Computer Systems BUS. 415 Computer Keyboarding BUS. 430 Intro. to IBM/PC BUS. 434 Microcomputer Spreadsheet LOTUS 1-2-3‡

MGMT 105 Financial Management MGMT 120 Management Communications MGMT 130 Labor Relations for Management MGMT 136 Budgeting and Planning MGMT 137 Performance Measurement Techniques MGMT 225 Office Management MGMT 240 Organizational Leadership Total  ‡Lotus Dev. Corp™	24
PUBLIC ADMINISTRATION CERTIFICATE	** **
CORE REQUIREMENTS MGMT 220 Organizational Behavior	Units
MGMT 235 Techniques of Supervision	
MGMT 281 Public Administration Management	3
MGMT 282 Public Finance	3
Plus, select 12 units from the following:	
ACTG 121 Financial Accounting	
ACTG 131 Managerial Accounting	
BUS. 103 Intro. to Business Computer Systems	
BUS. 415 Computer Keyboarding	
BUS. 430 Intro. to IBM/PC	
MGMT 120 Management Communications MGMT 130 Labor Relations for Management	
MGMT 136 Budgeting and Planning	
MGMT 137 Performance Measurement Techniques	
MGMT 225 Office Management	
MGMT 240 Organizational Leadership	
PLSC 310 California State & Local Government	
Total	24

#### MICROCOMPUTER APPLICATIONS CERTIFICATE PROGRAM

The Microcomputer Applications Certificate Program prepares students for entry-level positions in local offices of any company. The program is also of benefit to persons whose primary jobs are not computer-related. Students are able to learn to use software in the following areas: data base, word processing, electronic spreadsheet, graphics, and telecommunications. The computer can be used as a tool in business, education, and at home.

#### CAREER OPPORTUNITIES

Graduates may be able to find work in almost any company where microcomputers are used. They may also find work more easily in noncomputer fields because of their skills. Since computers are used in most businesses, the opportunities for persons obtaining this certificate should be especially broad.

CERTIFICATE PROGRAM—	
CORE REQUIREMENTS	Units
BUS. 101 Human Relations in Business	3
BUS. 415 Computer Keyboarding	1
BUS. 430 Intro to IBM/PC	1.5
BUS. 431 Adv. Microcomputer Fundamentals	
BUS. 432 Microcomputer WP: WordStart or	
BUS. 433 Microcomputer WP: Displaywrite	3
BUS. 434 Microcomputer Spreadsheet: Lotus 1-2-3‡	3
BUS. 436 Data Base Management: dBase	3
BUS. 438 Intro. to Microcomputer Graphics	1.5
Electives: Select Area A, B, or C: (12 units minimum)	
†MicroPro™	
‡ Lotus Dev. Corp.™	

AREA A: BUSINESS/ACCOUNTING  ACTG 100 Accounting Procedures  ACTG 121 Financial Accounting  ACTG 131 Managerial Accounting  ACTG 171 Indiv. Federal Income Tax Procedures  ACTG 180 Payroll & Business Taxes  ACTG 190 Computerized Accounting  BUS. 100 Survey of Business  BUS. 450 Office Automation: Microcomputer  Alternatives  ECON 100 Principles of Macro Economics  3 ECON 102 Principles of Micro Economics  3 3-5  3 5-5  3 5-5  3 5-5  3 5-5  4 5-5  3 6 5-7  3 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
AREA B: PROGRAMMING  COMP 151 Intro. to COBOL Programming  COMP 155 BASIC Programming  COMP 162 FORTRAN Programming  COMP 170 Intro. to Programming in Pascal  COMP 179 Files & Data Base Management**  3 COMP 275 Assembly Language Programming  BUS. 103 Intro. to Bus. Computer Systems  **Required	
AREA C: INTEGRATED INFORMATION PROCESSING  OFAD 200 Shorthand for the Electronic Office (Gregg)  OFAD 300 WP: Machine Transcription  OFAD 331 Intro. to Word Processing Concepts  OFAD 400 Business English  OFAD 401 Business Communications  OFAD 412 Filing and Records Management  OFAD 450 The Integrated Office  1-3 BUS. 100 Survey of Business  BUS. 110 Business Arithmetic*  3 BUS. 115 Business Mathematics*  3 BUS. 450 Office Automation: Microcomputer Alternatives  *A proficiency test will be available at the first class meeting.	

#### MICROCOMPUTER TECHNICIAN

The Microcomputer Technician Program is designed to provide general theory and laboratory practice in basic electronics, digital devices, microprocessor and microcomputer technology.

Cañada College maintains a fully equipped electronics laboratory, which includes electronic trainers and test equipment, and uses the Motorola 6808 microprocessor in the single board microcomputer.

Students in this program can earn a Microcomputer Technician Certificate which will provide the technical skills necessary for entry-level employment.

#### CAREER OPPORTUNITIES

There is a variety of career opportunities available to Microcomputer Technicians for both in-house and field service technicians. An increasing number of personnel are needed for manufacturing, maintenance, and repair of electronic equipment and computer systems within the electronic industry.

#### A.S. DEGREE PROGRAM

This is an A.S. Degree program and will not satisfy the preparations required for a major leading to a B.S. degree.

CORE REQUIREMENTS	Units
CTEC 400 Technical Calculations & Study Skills	3.5
CTEC 420 Direct & Alternating Current	
Fundamentals	5.5
CTEC 440 Semiconductor Devices & Circuits	2.5
CTEC 460 Digital Devices & Circuits	5.5
CTEC 500 Microprocessor Principles	
CTEC 520 Microprocessor Interfacing	
Applications	4
General Education Requirements	18
Electives	
Total	60
CERTIFICATE PROGRAM	
MICROCOMPUTER TECHNICIAN	
MICKOCOMPUTER TECHNICIAN	Units
CTEC 400 T. 1 : 1 C 1-1 time & Challe Chille	
CTEC 400 Technical Calculations & Study Skills	3.3
CTEC 420 Direct & Alternating Current	
Fundamentals	
CTEC 440 Semiconductor Devices & Circuits	
CTEC 460 Digital Devices & Circuits	
CTEC 500 Microprocessor Principles	4
CTEC 520 Microprocessor Interfacing Applications	
Total	25

#### OFFICE ADMINISTRATION

See INTEGRATED INFORMATION PROCESSING

#### **PARALEGAL**

CERTIFICATE PROGRAM CORE REQUIREMENTS

The Paralegal Program at Cañada offers a certificate only. It was developed by the Cañada College Paralegal Advisory Committee for the purpose of training personnel to assist attorneys in both civil and criminal matters.

The curriculum provides a broad legal foundation for lawrelated occupations in the public, corporate, private, and government sectors. Elements of substantive law, legal research and analysis, and preparation of legal documents are emphasized during the instructional process.

Courses completed during this program will not satisfy the preparations required for a major leading to a B.A. or B.S.

LEGL 250 Legal Research & Bibliography* 2 LEGL 252 Trial Preparation & Legal Ethics** 3 LEGL 259 Intro. to Legal Systems 3 *Prior to or concurrent with LEGL 259. **LEGL 259 must be taken prior to, not concurrently with this course.
ELECTIVES** Units
LEGL 251 Torts & Contracts
LEGL 253 Probate Administration
LEGL 254 Family Law
LEGL 255 Corporations & Business Entities 3
LEGL 256 Real Estate & Landlord-Tenant
LEGL 257 Bankruptcy & Debt Collection
LEGI. 258 Adv. Trial Preparation***
LEGL 258 Adv. Trial Preparation***
Total
**LEGL 259 must be taken prior to or concurrently with these courses.

\*\*\*LEGL 252 is a prerequisite.
\*\*\*\*LEGL 250 is a prerequisite.

Annual law update courses are taught during the Spring semester each year. Look for the announcement of these courses after January 1 each year.

For more information regarding the Paralegal Certificate Program, please call the Business/Social Science Division Office at 364-1212, Ext. 201.

#### **PHILOSOPHY**

One of the most persistent subjects of human concern, philosophy is disciplined reflection on the human condition. It can be an analysis and criticism of ideas and statements, or an attempt to synthesize all experience and knowledge, or an exploration of the meaning of life and how best to live it. Critical thinking is developed while examining people's responses to fundamental questions.

#### CAREER OPPORTUNITIES

As a profession, philosophy is virtually limited to those who teach and write it. It provides, however, a basis for a broad liberal arts education, valuable for its own sake, as well as preparation for careers in related professional humanistic or social disciplines. Philosophy serves as good preparation for careers in law, management, publishing, ministry, library science, labor relations, medicine, government administration, educational research and broadcasting, social work, and data processing and information systems.

#### TRANSFER PROGRAM

Units

Most job opportunities require the minimum of a B.A. Degree. Students can fulfill General Education and lower division social science and humanities requirements at Cañada.

RECOMMENDED TRANSFER PROGRAM		•	-	its
PHIL 100 Introduction to Philosophy				. 3
HIST 100 History of Western Civilization				. 3
HIST 101 History of Western Civilization				. 3
PHIL 190 Contemporary Philosophy				. 3
PHIL 200 Introduction to Logic	. )		+	. 3
PHIL 103 Critical Thinking			·	. 3
PHIL 240 Introduction to Ethics				. 3
ANTH 110 Cultural Anthropology				
PSYC 100 General Psychology				. 3

#### ASSOCIATE IN ARTS DEGREE PROGRAM

Students wishing an A.A. Degree in Philosophy must complete 60 units of lower division college work with a minimum overall grade point average of 2.0. Courses in natural science, social science, humanities, learning skills, and ethnic studies areas (minimum of one in each) must be taken. In addition, students will take 18 – 24 units in the area of concentration, with the balance of the 60 units in elective courses.

OTHER COURSES IN PHILOSOPHY						l	Jr	i	ts
PHIL 160 History of Philosophy Ancient & Medieval	4	 	+						3
PHIL 175 History of Philosophy									
16th to 18th Century			4		0				3
PHIL 300 Introduction to World Religions									3
PHIL 310 Philosophy of Religion									3
PHIL 320 Asian Philosophy	+								3
PHIL 650 Seminar in Philosophy								×	3
PHIL 680 Selected Topics in Philosophy									3

#### POLITICAL SCIENCE

Political Science is the study of the theory and practice of government and politics, and of learning to be an effective citizen. It explores the process through which a group selects its leaders, determines its policies, reinforces its values and allocates advantages and disadvantages to its members.

#### CAREER OPPORTUNITIES

Background in political science and government prepares students for a wide range of careers. Law, foreign service, political office, or positions with government agencies are frequent choices. Other possibilities include legislative aide, lobbyist, budget analyst, city planner, public opinion surveyor, public information officer, campaign aide, operations or occupational analyst.

#### TRANSFER PROGRAM

Many job opportunities require at least a B.A. degree. Students can fulfill General Education and lower division social science requirements at Cañada.

RECOMMENDED TRANSFER PROGRAM	Units
PLSC 150 Intro. to Political Theory	3
PLSC 210 American Politics	3
PLSC 310 California State & Local Government	3
ECON 100 Principles of Macro Economics	3
ECON 102 Principles of Micro Economics	3
HIST 201 United States History to 1865	3
HIST 202 United States History Since 1865	3
HIST 100 History of Western Civilization	3
HIST 101 History of Western Civilization	3
SOSC 122 Social Sciences Research Methods	3

#### ASSOCIATE IN ARTS DEGREE PROGRAM

Students wishing an A.A. degree in Political Science must complete 60 units of lower division college work with a minimum overall grade point average of 2.0. Courses in natural science, social science, humanities, learning skills, and ethnic studies areas (minimum of one in each) must be taken. In addition, students will take 18 – 24 units in the area of concentration, with the balance of the 60 units in elective courses.

OTHER COURSES IN POLITICAL		Units
PLSC 205 American Society		5
PLSC 680 Selected Topics in Politica	l Science	1-3

#### **PSYCHOLOGY**

Psychology, a natural and social science, is concerned with the study of human and animal behavior. While the individual is usually the focal point, as in personality, developmental, clinical and counseling areas, the influence of groups on the individual is also considered. A broad discipline, psychology involves both pure science and practical application to everyday living.

#### CAREER OPPORTUNITIES

Professional level positions, such as psychologists and counselors, usually require advanced degrees. However, psychology is an excellent preparation for careers as personnel managers, psychometrists, survey designers, psychiatric aides, probation officers, social services directors, mental health workers, drug abuse or employment counselors, or training officers.

#### TRANSFER PROGRAM

Most job opportunities in psychology require the minimum of a B.A. degree. Students can fulfill General Education and lower division social science and science requirements at Cañada.

PSYC 100 General Psychology PSYC 300 Social Psychology ANTH 110 Cultural Anthropology SOSC 122 Social Science Research Methods *BIOL 110 Principles of Biology or *BIOL 130 Human Biology *PSIO 260 Human Physiology *CHEM 210 General Chemistry *Depending on concentration in major and choice of four-yea		Units
PSYC 300 Social Psychology ANTH 110 Cultural Anthropology SOSC 122 Social Science Research Methods *BIOL 110 Principles of Biology or *BIOL 130 Human Biology *PSIO 260 Human Physiology *CHEM 210 General Chemistry	PSYC 100 General Psychology	3
ANTH 110 Cultural Anthropology SOSC 122 Social Science Research Methods *BIOL 110 Principles of Biology or *BIOL 130 Human Biology *PSIO 260 Human Physiology *CHEM 210 General Chemistry	PSYC 300 Social Psychology	3
*BIOL 110 Principles of Biology or  *BIOL 130 Human Biology  *PSIO 260 Human Physiology  *CHEM 210 General Chemistry	ANTH 110 Cultural Anthropology	3
*BIOL 110 Principles of Biology or  *BIOL 130 Human Biology  *PSIO 260 Human Physiology  *CHEM 210 General Chemistry	SOSC 122 Social Science Research Methods	3
*PSIO 260 Human Biology  *CHEM 210 General Chemistry	*BIOL 110 Principles of Biology or	4
*PSIO 260 Human Physiology *CHEM 210 General Chemistry	*BIOL 130 Human Biology	1
CHEM 210 General Chemistry	*PSIO 260 Human Physiology	7
*Depending on concentration in major and choice of four-yea	*CHEM 210 Consol Chamber	5
Depending on concentration in major and choice of four-year	Criem 210 General Chemistry	5
	Depending on concentration in major and choice of four	r-year
collège.	college.	

#### ASSOCIATE IN ARTS DEGREE PROGRAM

Students wishing an A.A. degree in Psychology must complete 60 units of lower division college work with a minimum overall grade point average of 2.0. Courses in natural science, social science, humanities, learning skills, and ethnic studies areas (minimum of one in each) must be taken. In addition, students will take 18–24 units in the area of concentration, with the balance of the 60 units in elective courses.

OTHER COURSES IN PSYCHOLOGY Units
PSYC 108 Psychology in Practice 3
PSYC 110 Marriage & Relationship Choices
PSYC 201 Child Development
PSYC 202 Adolescent Behavior
PSYC 210 Early Childhood Education Principles 1–3
PSYC 211 Early Childhood Education Curriculum 1-3
PSYC 212 Child, Family & Community
PSYC 221 The Special Child
PSYC 223 Infant Behavior
PSYC 278 The Psychological Experience of
La Raza in the U.S
PSYC 300 Social Psychology 3
PSYC 340 Psychology of Human Sexuality 1.5–3
PSYC 3/0 Introduction to Counseling
PSYC 391 Parenting
PSYC 670 Cooperative Education 1-4
PSYC 680 Selected topics in Psychology

#### SECRETARIAL/CLERICAL

See INTEGRATED INFORMATION PROCESSING

#### SOCIAL SCIENCE

The social science designation is used for courses which are concerned with more than one social science or which can be applied to a variety of disciplines. There is no specific degree or transfer program.

#### **SOCIOLOGY**

Both a scientific and humanistic discipline, sociology is concerned with the study of systems of social action and their interrelations. It attempts to discover the factors that determine social organization and behavior, and promotes an understanding of the social world from personal problems to public issues.

#### CAREER OPPORTUNITIES

Sociology provides students with career choices ranging far beyond being a sociologist. Possibilities include becoming a social worker, demographer, social ecologist, industrial sociologist, public health statistician, criminologist, public relations consultant, population or public opinion analyst, employment counselor, social research trainee, manpower development specialist, claims examiner, or interviewer.

#### TRANSFER PROGRAM

Most job opportunities in sociology require the minimum of a B.A. degree. Students can fulfill General Education and lower division social science requirements at Cañada.

RECOMMENDED TRANSFER PROGRAM								ıi
SOCI 100 Introduction to Sociology								
SOCI 105 Social Problems							6	
SOCI 141 Minorities in American Society								
SOSC 122 Social Science Research Methods								
SOSC 200 Intro. to Communication Skills .			÷					
ANTH 110 Cultural Anthropology								
ECON 100 Principles of Macro Economics .							ű.	
ECON 102 Principles of Micro Economics .					21			
PSYC 100 General Psychology								

#### ASSOCIATE IN ARTS DEGREE PROGRAM

Students wishing an A.A. degree in Sociology must complete 60 units of lower division college work with a minimum overall grade point average of 2.0. Courses in natural science, social science, humanities, learning skills, and ethnic studies areas (minimum of one in each) must be taken. In addition, students will take 18-24 units in the area of concentration, with the balance of the 60 units in elective courses.

#### OTHER COURSES IN SOCIOLOGY

SOCI 100 Introduction to Sociolo	gy		 		 					3
SOCI 101 Survey of Criminal Jus										
System in American Society										
SOCI 120 Intro. to Gerontology .	*. *.	 	 		 		 		 	3
SOCI 126 Juvenile Delinquency .		 	 ٠.		 		 			3
SOCI 350 Intro. to Corrections .		 	 		 	,	 			3
SOCI 360 Intro. to Criminology .		 	 		 		 			3

#### **STATISTICS**

For descriptions of courses in statistics, see Mathematics 200.

## TRAVEL INDUSTRY CAREERS/TOURISM

The Cañada College Travel Industry Careers/Tourism program is designed to prepare students with the job skills required for employment in the travel industry and to provide training for those already in the travel industry who wish to upgrade their skills. In addition to the entry-level courses in Tourism, emphasis is placed on advanced training not usually available in Tourism programs at other schools. Our goal is to provide the travel industry with highly skilled travel professionals who will not require additional on-the-job training to be fully productive. We also encourage those already employed in the travel industry to attend our courses to upgrade their skills and qualify for advancement. The program also prepares students for transfer.

#### CAREER OPPORTUNITIES

In the airlines, career opportunities include reservations agent, ramp agent, ticket counter agent, and customer service representative. Retail Travel Agency opportunities include commercial travel sales, vacation travel sales, group travel specialist, and outside sales representative. Job opportunities in Wholesale Travel include reservations sales, operations staff, tour research and planning, and marketing and public relations. With a B.A. or advanced degree, students would be qualified for careers in travel management, long-range economic and social planning, statistical research positions with government tourist boards or offices working with trade, commerce, labor or international relations.

CORE CURRICULUM REQUIRED	Units
TOUR 100 Travel Industry Reference Materials	3
TOUR 721 Domestic Airline Tariff & Ticketing	3
TOUR 715 F.I.T. Planning & Costing	3
TOUR 722 Adv. Domestic Airline Tariff & Ticketing	
TOUR 725 Internat'l Airline Tariff & Ticketing	
*TOUR 710 Tourism Support Staff Procedures*	
Total	
*TOUR 711. Airline Computer Training, may be taken of	oncur-

\*TOUR 711, Airline Computer Training, may be taken concurrently with this course. Both should be taken immediately prior to the student going to work.

RETAIL TRAVEL CERTIFICATE	Units
Core Curriculum (as stated above)	18
TOUR 101 Selling Travel	3
TOUR 711 Airline Computer Training (CRT)	1
Six units of electives selected from the	
following list:	6
GEOG 100 Physical Geography (3)	
GEOG 110 Cultural Geography (3)	
GEOG 150 World Regional Geography	
(recommended for Tourism majors) (3)	
HIST 100 History of Western Civilization	
(recommended for Tourism majors) (3)	
HIST 422 Modern Latin America (3)	
ANTH 105 Peoples & Cultures of the World (3)	
ANTH 370 Pre-Columbian Peoples & Cultures of Mexico	&
Central America (3)	
TOUR 103 Travel Destinations/Europe (3)	
TOUR 104 Travel Destinations/World (3)	
TOUR 200 Intro. to Hospitality & Tourism (3)	
Total	28
WHOLFSALE TRAVEL CERTIFICATE	Units
Core Curriculum (as stated above)	18
TOUR 711 Airline Computer Training (CRT)	
TOUR 731 Wholesale Tour Operations	3
TOUR 732 Adv. Wholesale Tour Operations	3
Three units of electives selected from list	
under Retail Certificate	3
Total	28

#### ASSOCIATE IN ARTS DEGREE/ TRANSFER PROGRAM TOURISM

The A.A. transfer program is recommended for students who plan to continue their tourism studies at a four-year college or university with a major in travel management careers. A number of four-year universities now offer undergraduate and graduate degrees in tourism and hospitiality fields. Tourism majors completing an A.A. Degree should consult a counselor regarding General Education requirements.

#### SPECIAL TRAINING CERTIFICATES

#### INSTITUTE OF CERTIFIED TRAVEL AGENTS (I.C.T.A.)

Cañada College also offers the four-semester Institute of Certified Travel Agents program of certification of travel industry professionals (C.T.C.). TOUR 750, 751, 752, and 753 are available for travel industry personnel preparing for certification exams and also as electives for students in the Tourism program who wish to prepare themselves with the management-level skills needed by travel industry executives. (Contact the Tourism Office for information about certification fees.)

#### ADDITIONAL INFORMATION

Typing skills of a minimum of 45 words per minute, as measured by a typing test administered on campus, or completion of two units of OFAD 110, will be required of any tourism student who wishes to be recommended for employment in the travel industry.

Field trips involving various aspects of the travel industry, such as hotels, airline offices, cruise ships, passenger steamship lines, and wholesale tour operations, are included in the Tourism classes as part of the training. Participation in these tours is at student's expense.

## HUMANITIES DIVISION

#### DEPARTMENTS

Art Drama English English Institute Foreign Languages Humanities **Journalism** Library Science Music Speech

#### ART

The Art Department at Cañada College affords a unique experience to the serious student seeking a sound foundation in aesthetics and skill development. The faculty is composed of artist-teachers whose personal sensibilities range from the Classical to the Expressionist. The program has been designed to offer a continuity of study through structured courses based on the life-time experiences of each of the artist-teachers. The ultimate goal of the program is to support each student in the search for a personal form and the development of capabilities by which this form can be manifested.

#### CAREER OPPORTUNITIES

Arts Administrator, Art Therapist, Art Critic, Art Dealer, Advertising Specialist, Ceramist, Commercial Ceramist, Color Expert, Display Design, Painter, Design Consultant, Gallery Director, Graphic Artist, Photographer, Historian, Illustrator, Jewelry Designer, Printmaker, Merchandising Designer, Teacher, Sculptor, Muralist, Community Artist.

## TRANSFER PROGRAM SUGGESTED CURRICULA

#### ASSOCIATE IN ARTS DEGREE PROGRAM

Students wishing an A.A. degree in Art must complete 60 units of lower division college work with a minimum overall grade point average of 2.0. Courses in Natural Science, Social Science, Humanities, Learning Skills, and Ethnic Studies areas (minimum of one in each) must be taken. In addition, students will take 18-24 units in the area of concentration, with the balance of the 60 units in elective courses.

#### BILINGUAL COMPETENCY CERTIFICATE PROGRAM

The purpose of the Bilingual Competency Program is to establish recognition of bilingual competence by native language experience or through acquisition of language skills. The Bilingual Certificate certifies bilingual proficiency in the following areas: Spanish/English, French/English, and German/English. In order to be eligible for the certificate, an applicant must satisfy the requirements of both I and II below.

 Have completed one year's residence at Cañada College or have completed 24 units at the college, or be in substantial completion of one year's residence or 24 units (via work in progress);

• Have taken and completed (or be near completion of) 3 approved courses in English at the college with a grade average in those approved English courses of "B" or better;

 Have taken and completed (or be near completion of) 3 approved courses in either French, German, or Spanish at the college with a grade average in those approved language courses of "B" or better;

• Have the equivalent of B and C above with a minimum of 12

units of residence at Cañada College.

Note: Language classes in which the student receives a grade of Credit only, rather than a letter grade, cannot be applied towards the certificate.

 Make a passing score on the written examinations required in both the native and the acquired language;

 Demonstrate proficiency in both the native and the acquired languages by satisfactorily completing an oral interview

For further information on the Bilingual Competency Program, please contact the Office of Admissions and Records.

#### DRAMA

The Cañada College Drama Department presents a program rich in depth and diversity. Students - whether pursuing a career in the theatre arts or simply desiring creative expression-will find in the drama department, not only a comprehensive schedule of pertinent courses, but also an extensive opportunity to put their developing knowledge and talent to work in performing on stage, in technical work, or in both. Because the department produces eight plays during the year, a student has the opportunity to work with at least three different directors and in plays ranging from comedy to heavily dramatic works.

The Cañada Drama Department can point with satisfaction to a significant and steadily growing number of its former students who go on to professional stage, movie, and television work performing, producing, and technical - and also to the many

gratified amateurs.

It should be emphasized that the drama program is designed for students of all levels of experience - beginning, intermediate, and advanced.

#### CAREER OPPORTUNITIES

Actor, Actress, Agent, Costume Specialist, Critic, Floor Manager, Lighting Designer, Make-up Artist, Motion Picture Narrator, Musical Director, Playwright, Producer, Programmer, Publicity Specialist, Radio/TV Announcer, Scenic Designer, Set Builder, Sound Effects Technician, Stage Hand, Story Teller, Thanker, Theorem. Teacher, Theatre Manager.

TRANSFER PROGRAM	
SUGGESTED CURRICULA U	nits
ORAM 140 Introduction to Theatre	3
DRAM 142 Early Drama	. 3
DRAM 143 Modern Drama	. 3
ORAM 200 Fundamentals of Acting	. 3
ORAM 201 Principles of Acting I	. 3
OKAM 202 Principles of Acting II	. 3
ORAM 203 Principles of Acting III	. 3
DRAIN 200 Acting Practicum I	1-2
DRAM 209 Acting Practicum II	1 - 2
DRAM 210 Acting Practicum III	1-2
ORAM 211 Acting Practicum IV	1 - 2
DRAM 248 Make-up	. 1
DRAM 300 Play Production 0.4	5-2

<b>DRAM 305</b>	Technical	Production									 -	0.5	5-	2
DRAM 338	Costume	Workshop				 							1-	2

#### ASSOCIATE IN ARTS DEGREE PROGRAM

Students wishing an A.A. degree in Drama must complete 60 units of lower division college work with a minimum overall grade point average of 2.0. Courses in Natural Science, Social Science, Humanities, Learning Skills, and Ethnic Studies areas (minimum of one each) must be taken. In addition, students will take 18–24 units in the area of concentration, with the balance of the 60 units in elective courses.

#### **ENGLISH**

The English Department at Cañada College offers a faculty whose special fields range from medieval to modern and from Asian to American, who are published writers, and who are, above all, dedicated and accomplished teachers. Courses offered cover English, European, Russian, American, Mexican-American, and Native-American literature; English and American language; expository and creative writing; critical and analytical reading. A Major in English equips the student with a wide variety of intellectual skills and prepares him for many correlated career opportunities.

#### CAREER OPPORTUNITIES

Advertising Person, Business Administrator, Civil Servant, Columnist/Journalist, Contract Specialist, Editor, Information Specialist, Insurance Examiner, Interpreter, Lawyer, Legislative Assistant, Lexicographer, Librarian, Manager, Methods Analyst, Program Developer, Public Relations Person, Publisher, Researcher, Teacher, Technical Writer, Writing Consultant.

# TRANSFER PROGRAM SUGGESTED CURRICULA Units ENGL 100 Reading and Composition 3 ENGL 110 Composition and Literature 3 LIT. 151 Shakespeare I 3 LIT. 252 Shakespeare II 3 LIT. 231 Survey of English Literature I 3 LIT. 232 Survey of English Literature II 3 LIT. 233 Survey of English Literature II 3 LIT. 233 Survey of English Literature III 3 LIT. 233 Survey of English Literature III 3 LIT. 230 Survey of English Literature III 3 LIT. 230 Survey of English Literature III 3 LIT. 230 Survey of English Literature III 3 LIT. 231 Survey of English Literature III 3 LIT. 233 Survey of English Literature III 3 LIT. 235 Survey of English Literature III 3 LIT. 237 Survey of English Literature III 3 LIT. 238 Survey of English Literature III 3 LIT. 239 Survey of English Literature III 3 LIT. 230 Survey of English Literatu

#### ASSOCIATE IN ARTS DEGREE PROGRAM

Students wishing an A.A. degree in English must complete 60 units of lower division college work with a minimum overall grade point average of 2.0. Courses in Natural Science, Social Science, Humanities, Learning Skills, and Ethnic Studies areas (minimum of one each) must be taken. In addition, students will take 18–24 units in the area of concentration, with the balance of the 60 units in elective courses.

#### **JOURNALISM**

Journalism, the pursuit and discovery of information about current human events, is the presentation of history as it happens. The Journalism Department at Cañada provides students with instruction in the historical background and modern functioning of the press in a democratic society; in the techniques of news gathering; of judging news values, and of writing the news story; and in the principles of responsible editorial decision-making.

#### CAREER OPPORTUNITIES

Advertising Assistant, Columnist, Continuity Writer, Copy Editor, Correspondent, Editorial Assistant, Editorial Writer, Ghost Writer, Interviewer, Journalist, Layout Artist, Legislative Assistant, Magazine Writer, Photographer, Press Relations Officer, Printing/Publication Officer, Proof Reader, Public Affairs Manager, Public Information Specialist, Radio/TV Announcer, Reporter, Script Editor, Speech Writer, Technical Writer/Editor.

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#### ASSOCIATE IN ARTS DEGREE PROGRAM

Students wishing an A.A. degree in Journalism must complete 60 units of lower division college work with a minimum overall grade point average of 2.0. Courses in Natural and Social Science, Humanities, Learning Skills, and Ethnic Studies areas (minimum of one in each) must be taken. In addition, students will take 18–24 units in the area of concentration, with the balance of the 60 units in elective courses.

#### MUSIC

"In a world of political, economic, and personal disintegration, music is not a luxury but a necessity, not simply because it is therapeutic nor because it is the 'universal language,' but because it is the persistent focus of man's intelligence, aspiration, and good will." Robert Shaw.

The Music Department at Cañada College, through its outstanding faculty, places strong emphasis upon performance, both individual and group. At the same time, the department offers the general student enhanced understanding and appreciation of all forms of music. Through this two-fold approach, the department's purpose becomes clear: to promote excellence in all aspects of music performance and academic course work, to provide basic preparation for careers in music, and to promote interest in all musical and artistic endeavors at the college and in the Bay Area community.

#### CAREER OPPORTUNITIES

Conductor, Choir Director, Soloist, Music Therapist, Teacher, Music Librarian, Composer, Nightclub Entertainer, Popular Singer, Opera Singer, Recreation Specialist, Arranger, Instrumentalist, Critic, Accompanist, Minister of Music, Professional Manager, Symphony Orchestra Member, Music Publisher, Music Producer, Movie/TV/Radio Music Director, Lyricist.

TRANSFER PROGRAM SUGGESTED CURRICULA	I	J	ni	its
MUS. 101 Musicianship I				2
MUS. 102 Musicianship II				
MUS. 131 Harmony I				
MUS. 132 Harmony II				
MUS. 135 Comprehensive				
Musicianship				2
MUS. 202 Music Appreciation				3
MUS. 496 Musical Recitals				2
Applied Music classes				4
Performance classes				

All music majors should include four semesters of piano or keyboard harmony in addition to the above.

#### ASSOCIATE IN ARTS DEGREE PROGRAM

Students wishing an A.A. degree in Art must complete 60 units of lower division college work with a minimum overall grade point average of 2.0. Courses in Natural Science, Social Science, Humanities, Learning Skills, and Ethnic Studies areas (minimum of one in each) must be taken. In addition, students will take 18–24 units in the area of concentration, with the balance of the 60 units in elective courses.

#### SPEECH

The Speech Department at Cañada College offers classes in the two primary forms of verbal communication: public address (rhetoric), and conversation or private discourse (dialectic). The department also offers a course in Oral Interpretation of Literature (reading aloud from the printed page), which, though concerned with neither rhetoric nor dialectic, is closely related to both of those forms of verbal address. The instructors in this department emphasize the necessity of strong and logically structured argument, at the same time recognizing the primacy of humane and empathetic elements in human communication. Speech classes at Cañada College are designed to encourage students to understand and use the traditional elements and devices of "good" speaking, while learning how to apply that understanding to their personal speaking styles.

#### CAREER OPPORTUNITIES

Consultant, Communications Researcher, Radio/TV Announcer, Copy Editor, Interviewer, Columnist, Editorial Writer, Speech Writer, News Analyst, Script Editor, Public Affairs Manager, Playwright, Marketing Field Director, Media Specialist, Legislative Assistant, Journalist, Editorial Assistant, Proof Reader, Public Information Specialist, Lawyer, Teacher.

## TRANSFER PROGRAM SUGGESTED CURRICULA Units SPCH 100 Fundamentals of Speech 3 SPCH 111 Oral Interpretation 3 SPCH 120 Interpersonal Communication 3 SPCH 127 Argumentation 3 SPCH 140 Techniques of Group Discussion 3 ENGL 100 Reading and Composition 3 ENGL 110 Composition and Literature 3 PSYC 100 General Psychology 3 SOCI 100 Introduction to Sociology 3 ANTH 110 Cultural Anthropology 3

## ANNOUNCEMENT 51

All courses and curricula listed in this catalog will not necessarily be offered during 1986-1987. Courses are offered at the discretion of the College in accord with its determination of educational needs and available resources. Courses may be added, cancelled, or combined when circumstances warrant.

The credit value of each course in semester units is indicated just under the title. A semester unit of credit is based upon one hour of the student's time at the College per week in lecture or recitation throughout one semester, together with the time necessary in preparation thereof, or a longer time in laboratory or other exercises not requiring outside preparation.

Generally, in the following course descriptions, both semesters of a year's course are listed together if the first semester course is a prerequisite to the second semester course.

The following courses have been approved for all instructional departments:

#### 670 COOPERATIVE EDUCATION — WORK EXPERIENCE.

Units (Grade	Option) 1-4
Class Hours	4-6 lecture hours/semester
	(on/job — 75 to 300 hours/semester
Prerequisites:	Enrollment in 7 units,
	including Co-op Education.

Description: Students' jobs must be related to their occupational goals. Activities include setting measurable learning objectives appropriate for the student's job, supervised work experience, limited classroom meetings, and individual conferences with an instructor-coordinator. May be repeated for credit.

#### 680 SELECTED TOPICS.

Units (Grade	Option)	
Class Hours	******	By Arrangement
		None

Description: Selected topics not covered by regular catalog offerings. Course content and unit credit to be determined by the appropriate division in relation to community/student need and available staff. These innovative, experimental courses may be offered as seminar, lecture, or lecture/lab classes. See semester schedule for particular offerings. May be repeated for credit.

#### 690 RESEARCH PROJECTS.

Units 1-2
Class Hours By Arrangement
Prerequisites: Two previous courses in the discipline, or
concurrent enrollment in the second course, and an overall 3.0
GPA in the department.

Description: Research projects in a particular discipline. Content to be arranged with individual faculty member and approved by appropriate Division Director. No student may enroll in more than two research courses per semester. May be repeated for credit for a maximum of four units.

#### 695 INDEPENDENT STUDY.

Units			1-3
Class Hours		By	Arrangement
Description: Se	lf-paced individ	ualized instruction	n in selected
topics to be a	rranged with in	ndividual faculty	member and
approved by ap	propriate Divisi	ion Director. Vary	ing modes of
instruction May	v be repeated for	r credit	

#### 880 OTHER SELECTED TOPICS.

Units (Grade	Option) 1-3
Class Hours	By Arrangement
Prerequisites:	None

Description: Selected topics not covered by regular catalog offerings. Course content and unit credit to be determined by the appropriate division in relation to community/student need and available staff. These innovative, experimental courses may be offered as seminar, lecture, or lecture/lab classes. See semester schedule for particular offerings. Not designed for transfer credit. May be repeated for credit.

#### 895 OTHER INDEPENDENT STUDY.

Units	
Class Hours	
Prerequisites:	None
Description: Self-paced individualized ir topics to be arranged with individual approved by appropriate Division Direct instruction. Not designed for transfer cre- for credit.	faculty member and or. Varying modes of

#### ACCOUNTING

#### ACTG 100 ACCOUNTING PROCEDURES.

Units (Grade Option) 3-4
Class Hours 3-4 lecture hours/week
Prerequisites: BUS. 110 or 115 reommended.
Description: Introduction to accounting procedures and the use
of a double-entry bookkeeping system. Course is designed for
students who wish to have a basic understanding of accounting
procedures.

#### ACTG 121 FINANCIAL ACCOUNTING.

Units 4-5
Class Hours 4-5 lecture hours/week
Prerequisites: None
Description: Emphasis on accepted accounting standards in the preparation of financial information. Covers transaction analysis and information processing for reporting financial position, income measurement, and resources generated and used. Interpretation and use of financial statements. Required for all
business major transfer students.

#### ACTG 131 MANAGERIAL ACCOUNTING

Units		 	4-5
		4-5 lecture	
Prerequisites:	******	 ACTG 121 c	or equivalent
		with a grade of	C or better

Description: Uses of accounting within an organization for planning and controlling purposes. Analysis of information for management functions, budgeting, manufacturing and cost accounting, responsibility accounting, and for evaluating alternative choices. Recommended for all business major transfer students.

#### ACTG 171 INDIVIDUAL FEDERAL INCOME TAX PROCEDURES.

Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites: None
Description: Fundamentals of income taxation. Study of the
internal revenue code, income tax regulations, and other refer-
ence material used in tax issues pertaining to individuals.

#### ACTG 180 PAYROLL AND BUSINESS TAXES.

Units
Class Hours
Prerequisites: ACTG 100 or 121 or equivalent.
Description: A review of payroll accounting procedures includ-
ing state and federal laws and regulations. Also, a review of the
California sales tax regulations and requirements for declara-
tions of real and personal property valuation. Major emphasis is
on the preparation of payrolls utilizing traditional payroll
methods but including illustrations of pegboard and com-
puterized systems. (Offered Spring only.)

ACTG 190 COMPUTERIZED ACCOUNTING. Units	response to the structure of corrections, the effectiveness of corrections, and its impact on the society at large.
Class Hours	ADMJ 360 INTRODUCTION TO CRIMINOLOGY. (Also SOCI 360) Units (Grade Option)
ACTG 212 MANUFACTURING ACCOUNTING. Units (Grade Option)	Description: The study of deviant behavior as it relates to the definition of crime; crime statistics; theories of crime causation; crime typologies. Introduction to the impact of crime, limits of the criminal law, juvenile delinquency, and society's reactions to criminal behavior.  ADMJ 370 INTRODUCTION TO COUNSELING.
techniques. An introduction to standard cost accounting.  A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study;	(Also PSYC 370) Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None
ADMINISTRATION OF JUSTICE	Description: Introduction to various theories of counseling and general principles of interviewing. Opportunity for the development of skills in establishing rapport, setting counseling goals, recognizing strengths in individuals, recognizing self—limitations, making referrals, and terminating counseling relationships.
ADMJ 101 SURVEY OF THE CRIMINAL JUSTICE SYSTEM IN	A detailed description of the following courses may be
AMERICAN SOCIETY. (Also SOCI.101) Units (Grade Option)	found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
Prerequisites: None Description: History and philosophy of criminal justice in America, identification of the justice system's component parts	ANATOMY
and their interrelationships, and the effect of social change on the criminal justice system. An in-depth study of the functions and responsibilities of each sub-system of criminal justice (police, courts, corrections), and a study of the legal standards, social responsibilities and ethics of each sub-system which guide the process of serving justice.	ANAT 130 BODY STRUCTURE AND FUNCTION. Units (Grade Option)
ADMJ 104 CONCEPTS OF CRIMINAL LAW. (Also SOCI 104) Units (Grade Option)	ing systems: skeletal, muscular, integumentary, circulatory, digestive, endocrine, respiratory, nervous (the senses), and reproductive.
Prerequisites: None	ANAT 250 ANATOMY. Units
Description: Historical development, philosophy of law and constitutional provisions; definitions, classification of crime, and their application to the system of administration of justice; legal	Class Hours 3 lecture, 3 lab hours/week Prerequisites: High school Biology with grade B or better
research, study of case law, methodology, and concepts of law as a social force.	Description: Structure of the human body as demonstrated through laboratory study and dissection of the human cadaver.
ADMJ 126 JUVENILE DELINQUENCY. (Also SOCI 126) Units (Grade Option)	Intended for students in nursing, physiotherapy, hygiene and physical education. Elective for pre-dental, premedical and pre-veterinarian students. Appropriate refresher for Allied Health personnel.
nile crime. Review and analysis of various explanations of delinquent behavior; survey and critique of the juvenile justice system; examination of selected agencies such as police, probation departments, juvenile courts, juvenile halls, state institutions, and private youth – service agencies.	A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
ADMJ 350 INTRODUCTION TO CORRECTIONS.	ANTHROPOLOGY
(Also SOCI 350) Units (Grade Option)	ANTH 105 PEOPLES AND CULTURES OF THE WORLD.  Units (Grade Option)
inmate groups in both confined and field settings. Societal	non-industrialized world.

ANTH 110 CULTURAL ANTHROPOLOGY. Units (Grade Option)	ic, ancient, classic, and medieval periods. Emphasis placed upon the structure of art and its use in society.
Class Hours 3 lecture hours/week Prerequisites: None Description: A study of human behavior expressed in different cultures throughout the world. Emphasis on methods and theories of anthropology. Religion, economics, personality, kinship, and family of different cultures.	ART 102 HISTORY OF ART II.  Units (Grade Option)
ANTH 125 PHYSICAL ANTHROPOLOGY. Units (Grade Option)	they relate to architecture, sculpture, and painting.  ART 103 HISTORY OF ART III.
Class Hours	Units (Grade Option)
ANTH 360 INDIANS OF NORTH AMERICA.  Units (Grade Option)	ART 110 INTRODUCTION TO ART.  Units (Grade Option)
ANTH 370 PRE-COLUMBIAN PEOPLES AND CULTURES OF MEXICO AND CENTRAL AMERICA. Units (Grade Option)	ART 120 MEXICAN ART AND ARCHITECTURE.  Units (Grade Option)
and Aztec. Emphasis on contributions of these peoples in the development of Middle America. Examination of the impact of the Spanish conquest, the emergence of the mestizo, and the cultural influences still present. (Fulfills Ethnic Studies requirement.)	ART 190 FINE ARTS FOR CHILDREN. (Also MUS. 190) Units (Grade Option)
A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.	Description: Study of methods and materials useful in teaching young children an understanding of art and music. Fosters self-expression in children. Experiences relate to the development of concepts in color, creation of paint media, line drawing and form appreciation.
ARCHITECTURE	ART 201 FORM AND COMPOSITION I. Units (Grade Option)
ARCH 110 BASIC ARCHITECTURAL DRAWING. Units (Grade Option)	Class Hours
floor plan design, home orientation, construction, local building codes, sketching and instrument drawing.	ART 202 FORM AND COMPOSITION II. Units (Grade Option)
A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.	Class Hours
ART	ART 204 DRAWING I. Units (Grade Option)
ART 101 HISTORY OF ART I. Units (Grade Option)	Class Hours 3 lecture hours/week Prerequisites: None Description: Fundamental course in drawing. Emphasis on perception development through specific drawing exercises to develop an orderly approach, a disciplined perception and an

increased attention span. Dry media, pencil, charcoal and Conte crayon.	ART 235 PRINTMAKING II. Units (Grade Option)
ART 205 DRAWING II.  Units (Grade Option)	Prerequisites:  Description: The student will choose from the types of printing listed in ART 234 for concentrated work. May be repeated three times for credit.
	ART 241 SILKSCREEN I. Units (Grade Option)
	Prerequisites: ART 235  Description: Introduction to stencil process of printing through a silk screen to produce graphic art on paper and fabric. May be repeated three times for credit.
Description: Study of the human figure through the application of various drawing concepts. Perceptual sensitivity and compositional exploitation of the subject will be emphasized. May be repeated three times for credit.	ART 301 DESIGN. Units
ART 214 COLOR. Units (Grade Option)	Prerequisites:  Description: Fundamentals of non-objective 2-dimensional organization through the use of concept (idea) as the point of departure. The separate and combined use of line, shape, color, texture, and space organization will be exploited in the course projects.
Description: Consideration of color, theory, and practice. Relationship of color and form as applied to contemporary painting and design.	ART 303 COLOR DESIGN. Units (Grade Option)
ART 221 PAINTING I.  Units (Grade Option)	Prerequisites:
mode of expression. Field trips may be required. May be repeated three times for credit.	ART 305 THREE DIMENSIONAL SCULPTURAL DESIGN. Units (Grade Option)
ART 222 PAINTING II.  Units (Grade Option)	Prerequisites:  Description: Introductory course in three-dimensional design and materials. Principles of design introduced through a series of projects related to spatial elements; practical skills in the use of hand, power, and welding tools. Project materials include: clay, wax, wood, plastics, metal, and cement. The course should be of special interest to students of engineering, architecture, interior design, landscape design, product design, and the
ART 231 WATER COLOR I. Units (Grade Option)	ART 311 LETTERING AND LAYOUT I.
Prerequisites: ART 201, ART 204 Description: Study of transparent and opaque watercolor technique applied to landscape, figure, and still life. Both basic and experimental techniques will be emphasized. Field trips may be required. May be repeated three times for credit.	Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Development of proficiency in freehand and mechanical lettering with pen and brush. Traditional and imaginative interpretations of lettering styles.
ART 232 WATER COLOR II.  Units (Grade Option)	ART 312 LETTERING AND LAYOUT II.  Units (Grade Option) 3  Class Hours 3 lecture hours/week Prerequisites: ART 311  Description: Development of lettering and two-dimensional design problems related to the area of ad copy and the graphic promotion of commercial events. Page layout and poster design emphasized. Diverse media used.
ART 234 PRINTMAKING I. Units (Grade Option)	ART 320 PERSPECTIVE.  Units

perspective. Not offered as a substitute for mechanical or	ART 800 SURVEY OF PHOTOGRAPHY.
architectural drafting.	Units
ART 322 ILLUSTRATION. Units (Grade Option)	Prerequisites: None
Class Hours 3 lecture hours/week Prerequisites: ART 201	Description: Through viewing slides and taking trips to local galleries and museums, a survey of photography from its
Description: A course in the rendering of literal and commercial	conception to the present day will be taken. As a learning tool,
concepts, providing the student with the basic skills to illustrate or decorate books, articles, advertisements, etc.	master photographs will be analyzed for their excellence in technique and composition. Some discussion of students' photo-
ART 324 LANDSCAPE.	graphic work and equipment may be included.
Units (Grade Option)	A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education;
Class Hours 3 lecture hours/week Prerequisites: None	680 Selected Topics; 690 Research Projects; 695 Independent Study;
Description: Developmental skills, techniques and sensitivity in	880 Other Selected Topics; 895 Other Independent Study.
traditional forms. Acrylics, oil paint, water color and other media are used to encourage individual expression. For the	ASTRONOMY
recreational painter. May not be applied toward the degree by the student whose major is art. May be repeated three times for	ASTR 100 INTRODUCTION TO ASTRONOMY.
credit.	Units (Grade Option) 3
ART 326 PORTRAITURE.	Class Hours 3 lecture hours/week Prerequisites: None
Units (Grade Option) 3 Class Hours 3 lecture hours/week	Description: Survey of modern astronomy, including the study of the planets, stars and galaxies. Emphasis on the place of man
Prerequisites: ART 201 or ART 204.	in the universe and the possibilities of life on other worlds.
Description: This course is designed to give the student a background in head construction, painting procedures and	Quasars, pulsars, black holes, the space program, and the beginning and the end of the universe will also be discussed.
techniques. Through a series of problems, the student gains in the development of structural and technical skills. May be	ASTR 110 THEORIES OF THE UNIVERSE.
repeated three times for credit.	Units (Grade Option) 3 Class Hours 3 lecture hours/week
ART 351 BASIC BLACK AND WHITE PHOTOGRAPHY.	Prerequisites: None
Units	Description: A historical survey of man's thinking about the largescale questions concerning the universe, from ancient myth
Prerequisites: Intro. to 35mm photography	to modern theories of an exploding universe. Topics: the
Description: An introductory course in black and white photog-	creation of the cosmos, the meaning of time and the end of the universe. The continual interaction of science with literature,
raphy. Ownership of a 35mm camera and basic understanding of its controls are a prerequisite. Students will learn to develop	philosophy, etc., will be explored through readings, slides, films.
and print their own black and white film. Students must supply	ASTR 120 PLANETS AND EXTRA-TERRESTRIAL LIFE.
their own 35mm camera, film, and paper.	Units (Grade Option) 3
ART 405, 406 SCULPTURE I, II. Units (Grade Option)	Class Hours 3 lecture hours/week Prerequisites: None
Class Hours 3 lecture/3 lab hours/week Prerequisites: None	Description: A scientific study of the possibility that life has formed elsewhere in the universe. Topics: A survey of the
Description: Basic course in figurative and non-objective structur-	planets; the search for other solar systems; the estimate of the
al forms using plastic, fiberglass, metal and other media. Each may be repeated three times for credit.	number of intelligent civilizations in our galaxy; methods of space travel and interstellar communications; past, present and
ART 411 CERAMICS I.	planned experiments to search for extra-terrestrial life. No mathematics is required.
Units (Grade Option)	A detailed description of the following courses may be found under
Prerequisites None	Announcement of Courses, page 51: 670 Cooperative Education;
Description: Designed to give the student the techniques of working on the potter's wheel, as well as hand building, pinch	680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
and coil and slab methods, including work in ceramic sculpture.	
Course will include techniques of glazing and decorative processes. \$10 lab fee. May be repeated once for credit.	BIOLOGY
ART 424 FIBER ARTS.	Units (Grade Option)
Units (Grade Option) 3 Class Hours 3 lecture hours/week	Class Hours 3 lecture hours/week
Prerequisites: None	Prerequisites: None Description: Study of the nature of the physical and chemical
Description: Exploration of various techniques and design possi- bilities of textile arts using hand-made looms. May be repeated	aspects of life, the concepts of cellular biology, life as it exists on earth today, plant and animal interrelationships and interdepen-
once for credit.	dencies, and the role of humans in the world of living things.

BIOL 110 PRINCIPLES OF BIOLOGY. Units	BOTANY
Class Hours	BOTY 112 NATIVE PLANTS AND WILDFLOWERS. Units (Grade Option)
BIOL 111 NATURE STUDY. Units	flowers of San Mateo County. Mainly field work, designed to allow the student to acquire skills in collection and identification of the flora of any region.
Prerequisites: None Description: Study of common plants and animals of the Bay Area. Emphasis on identification of common organisms and study of their natural history and distribution in this area.  BIOL 130 HUMAN BIOLOGY.	BOTY 145 PLANTS AND MAN.  Units
Units	function.  BOTY 145 PLANTS AND MAN LABORATORY.  Units
BIOL 135 HUMAN SEXUALITY: BIOLOGICAL ASPECTS.  Units	145. Field trips may be required.  BOTY 220 GENERAL BOTANY.  Units
BIOL 160 HUMAN GENETICS.  Units	Plants. Field trips may be required.  A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.  BUSINESS
BIOL 310 NUTRITION. (Also H.EC 310) Units (Grade Option)	BUS. 100 SURVEY OF BUSINESS.  Units (Grade Option)
recognized nutrition references and consumer information.  BIOL 312 NUTRITION IN HEALTH AND DISEASE. (Also H.EC 312) Units (Grade Option)	Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: The basic psychological principles operating in family, social and business relationships. Topics include: perception, self-image, self-management, prejudice, creativity and resistance to change. Recommended for all business majors.  BUS. 103 INTRODUCTION TO BUSINESS COMPUTER
Covers medical and dietary problems of the circulatory system, bony skeleton, endocrine system, excretory system, reproductive system, cancer, inborn errors of metabolism and natural food toxins. Emphasis on medical terminology.  A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study;	SYSTEMS.  Units
880 Other Selected Topics; 895 Other Independent Study.	business, including spreadsheets, word processing, data base

management, and DOS are included. Course is designed to meet the requirements of the business transfer major.	Leadership and creativity in supervision. How to establish and maintain effective communications in the workplace.
BUS. 110 BUSINESS ARITHMETIC. Units (Grade Option)	BUS. 415 COMPUTER KEYBOARDING. Units (Credit/No credit)
Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: BUS. 110 with C or better or must achieve a score of at least 28 on Test #1 of the General Math. Placement Test. Description: Study of business mathematics with emphasis on calculations involving taxes, discounts, negotiable instruments.	BUS. 420 INTRODUCTION TO APPLE COMPUTER. Units (Grade Option)
periodic payments, compensation methods, inventory pricing, depreciation, present value, investments, and financial statements.	BASIC techniques. BUS. 421 ADVANCED APPLE COMPUTER.
BUS. 131 MONEY MANAGEMENT.  Units (Grade Option) 3  Class Hours 3 lecture hours/week Prerequisites: None Description: Develops understanding and skill in dealing with consumer financial problems. Topics include financial planning, saving and borrowing money, real estate and security invest-	Units (Grade Option)
ments, estate planning, and income tax preparation. A compara- tive investment project is offered. Computer application pro- grams for money management are demonstrated in class and are available for student practice.	BUS. 430 INTRODUCTION TO IBM-PC. Units (Grade Option)
BUS. 150 SMALL BUSINESS MANAGEMENT.  Units (Grade Option)	Description: An introduction to microcomputers using the IBM-PC. Business applications including word processing, electronic spreadsheet, data base, and graphics are explored. An introduction to microcomputer BASIC is included. Strongly recommended BUS. 415 be taken prior to or concurrent with this course.
how to start and manage a small business.  BUS. 180 MARKETING.  Units (Grade Option)	BUS. 431 ADVANCED MICROCOMPUTER FUNDAMENTALS. Units (Grade Option)
BUS. 201 BUSINESS LAW.  Units	BUS. 432 MICROCOMPUTER WORD PROCESSING: WORDSTAR.+  Units (Grade Option)
BUS. 235 TECHNIQUES OF SUPERVISION. (ALSO MGMT 235) Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Designed to improve the student's skill in working with people. Analysis of the objectives and characteristics of good management. Group dynamics and small group behavior.	BUS. 433 MICROCOMPUTER WORD PROCESSING: DISPLAYWRITE. Units (Grade Option)

Till

BUS. 434 MICROCOMPUTER SPREADSHEET:  LOTUS 1-2-3.‡  Units (Grade Option) 3  Class Hours 3 lecture/2 lab hours/week  Prerequisites: None  Description: An introduction to the use of spreadsheets concepts in solving business – related problems. IBM-PC LOTUS 1 – 2 – 3‡ will be utilized in this basic course. Strongly recommended enrollment in BUS. 415 preceding or concurrent with this course.  ‡Lotus Dev. Corp.™	CRER 131 OCCUPATIONAL PLANNING.  Units
BUS. 436 DATA BASE MANAGEMENT: dBASE.  Units (Grade Option)	Prerequisites
BUS. 438 INTRODUCTION TO MICROCOMPUTER GRAPHICS.  Units (Grade Option)	techniques. The training enables the student to realize the importance of deepening self-understanding, a sense of integrity, and the capacity to love.  CRER 401 INTRODUCTION TO COLLEGE.  Units
BUS. 450 OFFICE AUTOMATION MICROCOMPUTER ALTERNATIVES. Units (Grade Option)	CRER 410 COLLEGE AWARENESS.  Units (Grade Option)
applications, including word processing, electronic mail, data management, and the use of IBM-PCs as workstations will be covered.  A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.	Units
CAREER AND PERSONAL DEVELOPMENT	Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.  CHEMISTRY
CRER 130 SELF-AWARENESS.  Units	CHEM 110 CHEMISTRY AND DAILY LIFE.  Units

CHEM 110 CHEMISTRY AND DAILY LIFE LABORATORY. Units	majoring in the physical sciences, medical sciences, and some areas of life science.
Prerequisites:	CHEM 410 HEALTH SCIENCE CHEMISTRY. Units
environment; such as the making of soaps, examining of fuels, flammability of materials, food analysis and physical and chemical properties of substances.	Prerequisites: One year high school algebra.  Description: Elementary course covering fundamental principles of general and inorganic chemistry with emphasis on applied
CHEM 192 ELEMENTARY CHEMISTRY. Units (Grade Option) 1–4 Class Hours 3 lecture, 1 recitation, 2 lab hours/week	chemistry rather than theoretical principles. Not accepted toward physical or life science major, or engineering, but will meet the requirements for many programs in home economics, nursing, environmental tech, etc.
Prerequisites: MATH 110 or one year of high school Algebra. Concurrent enrollment in Geometry or Intermediate Algebra strongly recommended. This course should not be elected by	CHEM 420 HEALTH SCIENCE CHEMISTRY. Units
Students who need a general survey course.  Description: Introduction to some of the theories, laws, concepts and language of Chemistry. It is specifically designed to prepare students for CHEM 210 with emphasis on problem solving. May be repeated up to 4 units.	Prerequisites:
CHEM 210, 220 GENERAL CHEMISTRY. Units	A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
Prerequisites: 210-CHEM 192 with grade of C or better or high school chemistry with grade of B or better, and two years of algebra and one year of geometry. A qualification exam will be given at the first class meeting. 220-CHEM 210 with grade of	CHINESE CHIN 801 CONVERSATIONAL CHINESE I.
Description: Principles and theory of inorganic chemistry for students majoring in Engineering, Pre-Med, Pre-Dental and other science majors. Topics include: Descriptive chemistry of the elements, ionic equilibria, oxidation-reduction, qualitative analysis, kinetics, thermodynamics, electrochemistry, coordination chemistry, introduction to nuclear chemistry.	Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Introduction to reading, speaking, and writing modern Mandarin Chinese. Emphasis on the spoken language. Chinese culture background pertinent to the learning of the language will be supplied.
CHEM 231 ORGANIC CHEMISTRY I. Units	CHIN 802 CONVERSATIONAL CHINESE II. Units (Grade Option)
Prerequisites:	Mandarin Chinese. Emphasis on the spoken language. Chinese culture background pertinent to the learning of the language
the structure, nomenclature, and reactions of the important classes of aliphatic and aromatic compounds. An introduction to IR and NMR spectroscopy is included.	computer information
CHEM 232 ORGANIC CHEMISTRY II.	SYSTEMS
Units	COMP 103 INTRODUCTION TO COMPUTER SCIENCE.
Prerequisites: Chem 231 with grade of C or better. Description: More rigorous treatment of mechanisms, reactions, and synthesis. Structure determination by degradation and spectroscopy. Laboratory will be implementation of techniques and skills taught in Chem 231, including identification of unknown compounds and mixtures. Extra supplies may be required.	Units (Grade Option) 3 Class Hours 3 lecture/2 lab hours/week Prerequisites None Description: Introduction to computer hardware, software and programming languages. Students will be exposed to a wide range of computer applications. Instruction will be provided in text editing, algorithms and problem solving, and an introduc- tion to programming using Karel the robot and Logo with turtle-graphics.
CHEM 250 QUANTITATIVE ANALYSIS. Units	COMP 115 ON-LINE EDITING.
Class Hours 2 lecture, 1 recitation, 5 lab hours/week Prerequisites: CHEM 220 with grade of C	Units
Description: Study of the theory, calculations and common analytical procedures of quantitative analysis and the acquisition of related basic skills and techniques. Required of most students	Description: Use of on-line editing programs, text editing and program development and modification. Strongly recommended for students taking COMP 151, 155, 162, 170, 248, 247. This course is also recommended for students who want to use the

in non-computer courses.

computer systems.

COMP 151 INTRODUCTION TO COBOL PROGRAMMING. COMP 115 or concurrent enrollment. Description: Writing and testing COBOL programs. Emphasis on logic or typical business programs and basic language elements. Included also are debugging techniques, use of reference manuals, program documentation standards and structured programming concepts. COMP 155 BASIC PROGRAMMING. (Some typing skills recommended.) COMP 103 and COMP 115 strongly recommended. Description: Introduction to computer programming using the BASIC language. Topics will include Input/Output, control statements, subroutines and functions, one and two dimensional arrays, string processing, random numbers, sequential files, documentation, and programming style. COMP 157 APPLICATIONS OF ADVANCED BASIC. Description: A discussion of the advanced features of the BASIC programming language. Theory and examples of multiple line functions; string processing; merging, sorting, and searching; sequential files; and problem-solving using top-down design. Also included will be the discussion of the application of these advanced techniques to personal computers. COMP 162 FORTRAN PROGRAMMING. sional arrays, string processing, random numbers, sequential files, documentation, and programming style. COMP 170 INTRODUCTION TO PROGRAMMING IN PASCAL. or better. (Some typing skills recommended.) COMP 103 and COMP 115 strongly recommended. Description: An introductory course in programming using the PASCAL language. Emphasis will be on the use of structured programming techniques in general problem-solving situations with both numerical and non-numerical applications. COMP 179 FILES AND DATA BASE MANAGEMENT. Description: A discussion of files, file organization, file updating, and data-based management systems. Theory and examples of sequential, virtual array, and random I/O files, and an introduction to data base management systems as used in

on-line editing program for editing reports and/or compositions

Units
Class Hours
Description: An introduction to the syntax and semantics of the C programming language. C's unique features, pointers, and structures will be stressed. Applications most suitable for C will be covered.
COMP 245 ADVANCED TOPICS PROGRAMMING.
Units
tional topics will be chosen from: data base systems, text processing, simulations, language translators, and spreadsheet design.
COMP 275 ASSEMBLY LANGUAGE PROGRAMMING.
Units
Description: Introduction to assembly language programming including input/output, memory reference, and register reference instructions. Address modification, indirect addressing, indexing and sub-routines. Topics also include macro definition and use.
COMP 699 INDEPENDENT COMPUTER LABORATORY
Units
Description: Individualized use of computer facilities for programming and/or on-line text editing. Not a corequisite for any computer class.
A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

COMP 100 INTRODUCTION TO C PROCRAMMING

### COOPERATIVE EDUCATION

#### Cooperative Education - Work Experience

Through the Cooperative Education program, students earn college credit by improving their skills, knowledge, or performance on a paying or a volunteer job. Students work with a Co-op Education instructor and their job supervisor to establish measurable learning objectives appropriate to their jobs. Credit is earned when these stated objectives have been successfully accomplished. Students must be enrolled in seven units (including the Cooperative Education course) to earn Cooperative Education credit.

Students may earn one unit of credit for each 75 hours of paid work (approximately 5 hours per week) with a maximum of four units per semester for a total not to exceed 16 units while enrolled in a community college. Students on volunteer jobs with non-profit organizations may earn one unit of credit for each 60 hours of work (approximately 4 hours per week). For further information see your counselor or the Cooperative Education Coordinator in the Career Center, Building 5, Room 208.

#### For Veterans Only

A veteran may count Co-op Education units towards Veterans educational benefits. The Veterans Administration requires that the veteran's job relate closely to the veteran's major.

#### COOP 670 OCCUPATIONAL COOPERATIVE EDUCATION.

Units	
Class Hours	4-6 lecture hrs/semester
(on/	job — 75 to 300 hrs/semester)
Prerequisites	Enrollment in 7 units.
	including Co-op Ed.

Description: Students' jobs must be related to their occupational goals. Activities include setting measurable learning objectives appropriate for the student's job, supervised work experience, limited classroom meetings, and individual conferences with an instructor. May be repeated for credit.

#### **DEVELOPMENTAL SKILLS**

#### DSKL 810 SPECIFIC LEARNING SKILLS.

Units (Credit Only)	0.5-2
Class Hours	1-3 lab hours/week
Prerequisites:	Verifiable learning disability.
Description: Individual and small assist students with identified lear ing skill areas; basic skills; memo skills; perceptual skills (auditory/v tive and expressive); conceptual skills	group activities designed to ning disabilities in the follow- ory/organization/concentration isual); language skills (recep-

#### DSKL 811 SPECIFIC LEARNING SKILLS ASSESSMENT.

Units 0.5	U
Class Hours 6-8 lab hours/week	CI
Prerequisites: Verifiable learning disability.	Pr
Description: Through the use of individual diagnostic test and	D
self-evaluation and other activities, students will examine and	se
become more aware of their specific and general abilities and	be
limitations relative to their academic, vocational and social needs	lir
and interests. Students will also learn to develop and seek to	ar
implement individual educational plans based on the finding of	
their diagnostic activities.	

#### DSKL 813 DEVELOPMENTAL READING AND THINKING.

Units (Credit/No-credit) 0.5-2
Class Hours 1.5 lecture, 1.5 lab hours/week
Prerequisites: Verifiable learning disability.
Description: Small group classroom instruction designed to assist learners with identified learning disabilities in the development/ improvement of receptive written language and field independent thinking skills. (May be repeated up to a total of 9 units.)

#### DSKL 814 DEVELOPMENTAL SPELLING AND WRITING.

Units (Credit/No-credit)
Class Hours 1.5 lecture, 1.5 lab hours/week
Prerequisites: Verifiable learning disability.
Description: Small group and classroom activities designed to
assist students with identified learning disabilities in spelling and writing skills. (May be repeated up to a total of 9 units)

#### DSKL 816 TUTORING.

Units (Credit/No-credit) 0.5-2
Class Hours 4 lab hours/week
Prerequisites: Dskl 811; Verifiable learning disability.
Description: This course is designed to assist students with
dentified learning disabilities to achieve success in mainstream
classes through instructional techniques which are appropriate
to the student's specific needs identified through assessment.

#### DRAMA

#### DRAM 101 HISTORY OF THEATRE I. physical theatres, staging, directing and their relationship to existent cultural forces. Use of audio-visual resources and required play attendance.

#### DRAM 102 HISTORY OF THEATRE II.

Units (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites None
Description: The 18th century to the present. Development and
changes in dramatic styles and structure. The 19th century,
Ibsen, Chekhov, new stage craft, Brechtian style, theatre of the
absurd and living theatre. Use of audio-visual resources and
required play attendance.

#### DRAM 106 READER'S THEATRE

Units (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites: None
Description: Oral presentation of literature both dramatic and
non-dramatic. Presentations are given with a minimal use of line
memorization and properties. The class will consist of lectures,
presentations, and discussion of interpretations. Outside
reading and rehearsal are required.

#### DRAM 140 INTRODUCTION TO THE THEATRE

Units (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites: None
Description: Nomenclatures, duties, and responsibilities of the various theatre artists, traditions, script analysis, approach to a script from the director's viewpoint, the designer's viewpoint. Publicity, performance, music and dance, motion pictures, and
T.V.

#### DRAM 142 GREAT PLAYS: CLASSICAL AND

Un	its (Grade Option)
Cla	iss Hours 3 lecture hours/week
Pre	requisites: None
De	scription: Study of the greatest plays and playwrights from ssical Greece through the Elizabethan era in England. Prin-
rela me cha	ssical Greece through the Elizabethan era in England. Prin- les underlying dramatic literature in each period will be ated to dominant social, intellectual and artistic forces, assuring the student's own beliefs and values against those of tracters of other times and places. Play attendance may be juired.

#### DRAM 143 GREAT PLAYS: MODERN ERA.

Units (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites: None
Description: Study of the great plays and playwrights from the
17th Century to the present. See description of Drama 142.

#### DRAM 144 HISTORY AND DEVELOPMENT OF THE AMERICAN MUSICAL. (Also LIT. 144)

Units (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites None
Description: Students study the development of the American
musical theater from its European roots through vaudeville,
revues, etc., to the modern concept musical. The class explores
how musical theater of the period reflects the social and cultural
trends in American society. The structural components of
musical theater, as well as significant contributions to this

unique American theatrical form, will be a major part of the class.  DRAM 151 INTRODUCTION TO SHAKESPEARE I. (Also LIT. 151) Units (Grade Option)	DRAM 261, 262 DRAMA TECHNOLOGY I, II.  Units (Grade Option)
(Also LIT. 152) Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: ENGL 100 Description: Study of selected plays of Shakespeare. Some discussion of Shakespeare's life and time and some discussion of his poetry will be included, although his plays are the main focus of the course. Plays covered are different than those in Drama 151 and are not selected on a chronological basis.	DRAM 300 PLAY PRODUCTION.  Units (Grade Option)
DRAM 200 THEORY AND PRACTICE OF ACTING.  Units (Grade Option)	Units (Grade Option)
DRAM 201, 202, 203 ADVANCED ACTING. Units (Grade Option)	Units (Grade Option)
DRAM 208, 209, 210, 211 (ACTING LABORATORIES).  Units (Grade Option)	A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.  EARLY CHILDHOOD EDUCATION  ECE. 210 EARLY CHILDHOOD EDUCATION PRINCIPLES.
DRAM 230 MIME AND MOVEMENT.  Units (Grade Option)	(Also PSYC 210) Units (Grade Option)
DRAM 248 MAKE-UP. Units (Grade Option)	ECE. 211 EARLY CHILDHOOD EDUCATION CURRICULUM. (Also PSYC 211) Units (Grade Option)

selection and management of activities for young children.	ECE. 246 TEACHING AND MANAGEMENT INTERNSHIP II.
Foster skills in providing quality learning experiences. Appreciation of the value of children's play. Development of appropriate curriculum evaluation methods.	Units (Grade Option) 3–10 Class Hours TBA Prerequisites: ECE certificate or 14 units of ECE
ECE. 212 CHILD, FAMILY, AND COMMUNITY. (Also PSYC 212) Units (Grade Option)	and demonstrated ability. Description: Designed for the experienced student in cooperation with the Bing School at Stanford University. Teaching Practicum includes: team teaching; program planning (including the Special Child); curriculum evaluation; advanced observational skills in Child Development. Management Seminar includes: resource management; fiscal and budgetary administration; facility and equipment management; parent involvement; special topics in management.  ECE. 311 NUTRITION FOR YOUNG CHILDREN.
ECE. 230 CREATIVE ACTIVITIES FOR THE YOUNG CHILD. Units (Grade Option)	Units (Grade Option)
role of creativity; how to stimulate creative expression through art media, music, dramatic activities, science and games both indoors and outdoors.	ECE. 313 HEALTH AND SAFETY FOR YOUNG CHILDREN. Units (Grade Option) 1 Class Hours (8 weeks) 2 lecture hours/week
ECE. 240 EARLY CHILDHOOD EDUCATION ADMINISTRATION I. Units (Grade Option)	Prerequisites:  None Description: Safety regulations will be reviewed for those planning to work in a setting caring for children. Guides to parents and teachers concerning the prevention of accidents. Equipment purchasing information and curriculum ideas for teaching safety to your children will be included.
children. Topics incude: Legal requirements for child care settings; laws relating to Early Childhood Education; facets of business and fiscal management.	A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
ECE. 241 EARLY CHILDHOOD EDUCATION ADMINISTRATION II.	ECONOMICS
Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Focus on the human relations aspects of child care. Major topics include: Staffing and supervision; parent involvement; issues in ECE.	ECON 100 PRINCIPLES OF MACRO ECONOMICS.  Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: The American economy; the price system; re-
ECE. 243 MICROCOMPUTERS IN EARLY CHILDHOOD EDUCATION. Units (Grade Option)	sources, machines and labor in production; firms and organizing private business; the banking system; money and economic activity; trends of national income and factors in determination; policies for stabilization and growth.
Class Hours	ECON 102 PRINCIPLES OF MICRO ECONOMICS.  Units (Grade Option)
ECE. 245 TEACHING AND MANAGEMENT INTERNSHIP I. Units (Grade Option)	wages, rent, interest and profits; international trade and finance; taxes, debts and public finance; comparative economic systems.
Class Hours	Units (Grade Option) 3 Class Hours 3 lecture hours/week
Description: Designed for the experienced student in cooperation with the Bing School at Stanford University. Teaching Practicum includes: team teaching; program planning; developmental curriculum; observational skills in Child Development. Management Seminar includes: program planning; implementation and monitoring organizational structure; non-profit incorporation; resource management/personnel management.	Prerequisites: None Description: Origin and development of the American economy. Industrial growth, land, and resource use, the transportation revolution, development of money and banking, trade patterns, organized labor, the role of government in aiding economic development and stabilization. (This course fulfills American Institutions requirement.)

A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

#### **ENGINEERING**

ENGR 100 ENGINEERING AND THE ENVIRONMENT.
Units
ENGR 200 DESCRIPTIVE GEOMETRY.
Units
ENGR 220 ENGINEERING GRAPHICS.
Units
ENGR 230 STATICS.
Units
ENGR 260 CIRCUITS AND DEVICES.
Units
Description: Introduction to electrical and electronic circuits and devices. Network theory and instruments.
ENGR 260L CIRCUITS AND DEVICES LABORATORY.
Units
Class Hours
Description: DC and AC network circuit theory. Cathode-ray oscilloscope theory and use. Non-linear device measurements, transistors and integrated circuits.
ENGR 270 MATERIALS SCIENCE.
Units
Description: Application of basic principles of chemistry and physics to the engineering properties of materials. Special emphasis devoted to relationship between microstructure and

the properties of metals, polymers, ceramics and semi-

conducting materials.

A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

#### **ENGLISH**

The Cañada English Placement Test is required of all students who have not taken a college composition course by the time they enter Cañada. Special exemption is made for students whose program totals fewer than 9 units and who do not intend to take an English class. Students who have taken Placement Exams at either the College of San Mateo or Skyline College may substitute results from these colleges. No other exams are acceptable.

Those taking the Placement Exam will ordinarily be placed in either English 100 or English 801. Additional class placements will be made for those students requiring remedial courses.

The English Department recognizes the Advanced Placement Test in English.

ENGL 100 READING AND COMPOSITION.
Units 3
Class Hours 3 lecture hours/week
Prerequisites: ENGL 100 recommendation via the placement test.

Description: Intensive reading and writing based on a study of primarily non-fiction materials; writing will emphasize the expository and the argumentative forms.

ENGL 110 COMPOSITION AND LITERATURE.
Units 3
Class Hours 3 lecture hours/week
Prerequisites: ENGL 100
Description: Study of at least three literary types: short story,
drama, poetry, or novel, with extensive critical writing. Essays
will be based on reading and class analysis.

ENGL 161 CREATIVE WRITING I.
Units (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites: None
Description: The craft of writing fiction. Designed to help
beginning writers to find a way to begin and to encourage
journeyman writers to continue. Emphasis falls upon writing
technique and critical ability.

ENGL 162 CREATIVE WRITING II.
Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites: None
Description: The craft of writing poetry. Designed to help
beginning writers to find a way to begin and to encourage
journeyman writers to continue. Emphasis falls upon writing
technique and critical ability.

	INGL 165 ADVANCED COMI OSTITON.
Į	Jnits 3
(	Class Hours 3 lecture hours/week
I	Prerequisites: ENGL 100
I	Description: The logic and rhetoric of composition will be examined and practiced in this course. Modes, methods, and
1	sinds of reasoning will be studied; compositions will be directed
Ł	by formal, logical practices. The course will review formal and
i	nformal fallacies, voice, tone, and distance. Formal argument

ENCL 165 ADVANCED COMPOSITION

will be studied and practiced.

ENCL 101 TECHNICAL PEROPE INPETING
Units
ENGL 800 WRITING DEVELOPMENT.
Units
ENGL 801 READING AND WRITING. Units
Description: This is an AA/AS degree level course, and is especially recommended for students who have found previous English courses difficult. Content: reading of non-fiction and short fiction materials; writing of paragraphs; some work on study skills and critical thinking. The course is designed to increase reading and writing skills, to develop an interest in reading for pleasure and information.
ENGL 802 READING AND INTERPRETATION.
Units
ENGL 860 VOCABULARY DEVELOPMENT.
Units (Grade Option) 2 Class Hours 1 lecture/1 lab hour/week Prerequisites: None Description: A course in vocabulary improvement, including use of context and structural clues, and use of the dictionary. Frequent individual quizzes. May be repeated three times for credit.
ENGL 870 SPELLING.
Units (Grade Option) 2 Class Hours 1 lecture/1 lab/week Prerequisites: None Description: Word history, derivation, formation, and spelling rules are covered in the course. Students may be placed in English 870 as a result of their English Placement Test results, but the course is open to all students.
ENGL 880 ENGLISH FUNDAMENTALS AND GRAMMAR
REVIEW.  Units

A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study. LIT. 101 MODERN LITERATURE. Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites: ENGL 100 or equivalent.
Description: Study of selected fiction, poetry, and drama of the 20th Century. Lectures, discussions, related reading, writing of critical papers. LIT. 111 THE SHORT STORY. Units (Grade Option) 3

Class Hours 3 lecture hours/week
Prerequisites: ENGL 110 or equivalent.
Description: Designed to help the student understand short stories, perhaps the most popular form of prose fiction today. Careful analysis of short stories as a means of developing in the student a critical method for the evaluation of the short story LIT. 115 INTRODUCTION TO POETRY. Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites: ENGL 110 or equivalent Description: Discovery and study of the experience of a poem. Intensive and extensive reading, discussion, papers. LIT. 141 DRAMA STUDY AND APPRECIATION. with an emphasis on structure of drama. Frequent play attendance will be stressed. Discussion and written analysis follow. LIT. 142 GREAT PLAYS: CLASSICAL AND RENAISSANCE. (Also DRAM 142) Units (Grade Option)

Class Hours

Prerequisites:

Description: Study of the greatest plays and playwrights from classical Greece to the Elizabethan era in England. Principles underlying dramatic literature in each period will be related to dominant social, intellectual, and artistic forces. Play attendance may be required. LIT. 143 GREAT PLAYS: MODERN ERA. (Also DRAM 143) Units (Grade Option)

Class Hours

Prerequisites:

Description: Study of the great plays and playwrights from the 17th century to the present. Principles underlying dramatic literature in each period will be related to dominant social, intellectual, and artistic forces. Play attendance may be required. intellectual, and artistic forces. Play attendance may be required. LIT. 144 HISTORY AND DEVELOPMENT OF THE 

Description: Students study the development of the American musical theater from its European roots through vaudeville, revues, etc., to the modern concept musical. The class explores how musical theater of the period reflects the social and cultural

trends in American society. The structural components of musical theater, as well as significant contributions to this unique American theatrical form, will be a major part of the

Class Hours Perequisites: Description: Study of representative plays of Shakespeare. A chronological sequence of plays, from each of the phases of Shakespeare's creativity, will be covered. Some discussion of Shakespeare's creativity, will be covered. Some discussion of Shakespeare's creativity, will be covered. Some discussion of Shakespeare's life and times and some discussion	nen iree
Class Hours Prerequisites: ENGL 100 or equivalent. Description: Study of selected plays of Shakespeare. Some discussion of Shakespeare's life and times and times and some discussion of the spectration. Statisfies Ethnic Studies requirement.  LIT. 291 CHILDREN'S LITERATURE.  LIT. 290 MAJOR FIGURES IN AMERICAN LITERATURE.  LIT. 200 MAJOR FIGURES IN AMERICAN LITERATURE.  LIT. 200 MAJOR FIGURES IN AMERICAN LITERATURE.  LIT. 201 SURVEY OF ENGLISH LITERATURE I.  Description: Study of the writings of some of the major figures in American literature. Intensive reading, lectures, discussion, papers.  LIT. 211 SURVEY OF ENGLISH LITERATURE II.  LIT. 222 SURVEY OF ENGLISH LITERATURE II.  LIT. 232 SURVEY OF ENGLISH LITERATURE II.  LIT. 243 FIGURE ENGLISH LITERATURE II.  LIT. 252 SURVEY OF ENGLISH LITERATURE II.	one nen
Units (Grade Option) 3 lecture hours/week Prerequisites: None Description: Designed to give practical experience in presenting stories and poetry to children in the pre-school and primary grades. To acquaint the teacher assistant, teacher, library aide, and librarian with the history of literature for children and the outstanding authors and illustrators of children's books. Development of resource files.  LIT. 200 MAJOR FIGURES IN AMERICAN LITERATURE. Units (Grade Option) 3 lecture hours/week Prerequisites: Sensor of the major figures in American literature. Intensive reading, lectures, discussion, papers.  LIT. 231 SURVEY OF ENGLISH LITERATURE I. Units (Grade Option) 3 lecture hours/week Prerequisites: Selections from the literature of ancient Green through Renaissance Europe will be read, analyzed, discussion and enjoyed. Group work, oral reports, papers.  LIT. 232 SURVEY OF ENGLISH LITERATURE II. Units (Grade Option) 1 lectures, writing of critical essays.  LIT. 232 SURVEY OF ENGLISH LITERATURE II. Units (Grade Option) 2 lectures, writing of critical essays.  LIT. 232 SURVEY OF ENGLISH LITERATURE II. Units (Grade Option) 2 lectures hours/week Prerequisites: ENGL 110 Description: Study of the typical works of major English writers from the Restoration to the Victorian period. Discussions, lectures, writing of critical essays.  LIT. 232 SURVEY OF ENGLISH LITERATURE II. Units (Grade Option) 2 lecture hours/week Prerequisites: ENGL 110 Description: Study of the typical works of major English writers from the Restoration to the Victorian period. Discussions, lectures, writing of critical essays.  LIT. 231 SURVEY OF ENGLISH LITERATURE II. Units (Grade Option) 2 lecture hours/week Prerequisites: ENGL 110 Description: Study of the typical works of major English writers from the Restoration to the Victorian period. Discussions, lectures, writer of critical essays.  LIT. 232 SURVEY OF ENGLISH LITERATURE II. Units (Grade Option) 2 lecture hours/week Prerequisites: Eligibility for ENGL 12 lecture hours/week Prerequisit	reek lone ican rom ased
LIT. 200 MAJOR FIGURES IN AMERICAN LITERATURE. Units (Grade Option) 3 lecture hours/week Prerequisites: ENGL 100 or equivalent. Description: Study of the writings of some of the major figures in American literature. Intensive reading, lectures, discussion, papers.  LIT. 231 SURVEY OF ENGLISH LITERATURE I. Units (Grade Option) 3 lecture hours/week Prerequisites: ENGL 110 Description: Study of the typical works of major English writers from Chaucer to the end of the 18th Century. Discussions, lectures, writing of critical essays.  LIT. 232 SURVEY OF ENGLISH LITERATURE II. Units (Grade Option) 3 lecture hours/week Prerequisites: ENGL 110 Description: Study of the typical works of major English writers from Chaucer to the end of the 18th Century. Discussions, lectures, writing of critical essays.  LIT. 232 SURVEY OF ENGLISH LITERATURE II. Units (Grade Option) 3 lecture hours/week Prerequisites: Eligibility for ENGL 1 Units (Grade Option) 3 lecture hours/week Prerequisites: Eligibility for ENGL 1 Units (Grade Option) 5 lectures of ancient Gree through Renaissance Europe will be read, analyzed, discuss and enjoyed. Group work, oral reports, papers.  LIT. 302 MASTERPIECES OF CLASSICAL AND EUROPEA LITERATURE II. Units (Grade Option) 5 lecture of ancient Gree through Renaissance Europe will be read, analyzed, discuss and enjoyed. Group work, oral reports, papers.  LIT. 302 MASTERPIECES OF CLASSICAL AND EUROPEA LITERATURE II. Units (Grade Option) 5 lecture of ancient Gree through Renaissance Europe will be read, analyzed, discuss and enjoyed. Group work, oral reports, papers.  LIT. 302 MASTERPIECES OF CLASSICAL AND EUROPEA LITERATURE II. Units (Grade Option) 5 lecture hours/week Prerequisites: Eligibility for ENGL 1 Units (Grade Option) 5 lecture hours/week Prerequisites: ENGL 110 Description: Study of the typical works of major English writers from the Restoration to the Victorian period. Discussions,	lone betic the tres,
Class Hours 3 lecture hours/week Prerequisites: ENGL 110 Description: Study of the typical works of major English writers from Chaucer to the end of the 18th Century. Discussions, lectures, writing of critical essays.  LIT. 232 SURVEY OF ENGLISH LITERATURE II. Units (Grade Option) Class Hours 3 lecture hours/week Prerequisites: Eligibility for ENGL 1 Description: Study of selected European novels, short stori and plays from the 17th century to the present. Reading analysis, and discussions; written reports, oral readings, a lectures.  LIT. 302 MASTERPIECES OF CLASSICAL AND EUROPEA LITERATURE II. Units (Grade Option) Class Hours 5 lecture hours/week Prerequisites: Eligibility for ENGL 1 Description: Study of selected European novels, short stori and plays from the 17th century to the present. Reading analysis, and discussions; written reports, oral readings, a lectures.  LIT. 302 MASTERPIECES OF CLASSICAL AND EUROPEA LITERATURE II.  Units (Grade Option) Class Hours 5 lecture hours/week analysis, and discussions; written reports, oral readings, a lectures.  LIT. 312 SURVEY OF ENGLISH LITERATURE II.  Description: Study of selected European novels, short stori analysis, and discussions; written reports, oral readings, a lectures.  LIT. 312 SURVEY OF ENGLISH LITERATURE II.  Units (Grade Option) Class Hours 6 lecture hours/week analysis, and discussions; written reports, oral readings, a lectures.  LIT. 312 SURVEY OF ENGLISH LITERATURE II.  Description: Study of the typical works of major English writers from the Restoration to the Victorian period. Discussions, and discussions; written reports, oral readings, and lectures.	3 veek lent.
Units (Grade Option)  Class Hours  Prerequisites:  Description: Study of selected European novels, short stori and plays from the 17th century to the present. Reading analysis, and discussions; written reports, oral readings, a lectures.  From the Restoration to the Victorian period. Discussions, LIT. 341 RUSSIAN NOVEL/SHORT STORY.	3 week
lectures, writing of critical essays.  Units (Grade Option)	ding,
LIT. 233 SURVEY OF ENGLISH LITERATURE III.  Units (Grade Option)	shkin
LIT. 251 WOMEN IN LITERATURE.  Units (Grade Option) Class Hours Prerequisites: Description: This course explores women writers' views of women and men in short stories, novels, poetry, drama, and film. The class discusses literature beginning with the ancient  LIT. 371 MEXICAN-AMERICAN LITERATURE.  Units (Grade Option) Class Hours Prerequisites: Description: Study (in English) of literature written by Mexica Americans. Emphasis will be placed upon contemporary stor poems, and essays. Satisfies Ethnic Studies requirement.	None can-

LIT. 372 MYTH AND FOLKLORE OF LA RAZA.  Units (Grade Option) 3  Class Hours 3 lecture hours/week Prerequisites: None Description: Study of the folk literature of Mexican and Mexican- American peoples, with special emphasis on their effect on contemporary values. Satisfies Ethnic Studies requirement.  LIT. 375 NATIVE-AMERICAN LITERATURE.  Units (Grade Option) 3  Class Hours 3 lecture hours/week Prerequisites: None Description: A study of the great epics and myths, the lyrical and narrative poetry, the oratory, and the contemporary works in prose and poetry of the American Indian from pre-Conquest times to the present. Satisfies Ethnic Studies requirement.	LIT. 461 FILM MAKING.  Units (Grade Option)  Class Hours
LIT. 422 FANTASY AND SCIENCE FICTION.  Units (Grade Option)	Units
LIT. 431 MYTHOLOGY.  Units (Grade Option)	Units (Credit Only)  Class Hours  Prerequisites:  Description: By means of individual and small govelopmental Reading concentrates on the teach reading skills. Word attack, vocabulary, and concentrates on the teach reading skills word attack, vocabulary, and concentrates on the teach reading skills. Word attack, vocabulary, and concentrates on the teach reading skills. Word attack, vocabulary, and concentrates on the teach reading skills. Word attack, vocabulary, and concentrates on the teach reading skills.
LIT. 441 FILM STUDY AND APPRECIATION I.  Units (Grade Option)	READ 802 READING IMPROVEMENT. Units (Credit Only) Class Hours 3 lecture Prerequisites: Description: By means of individual and group work stresses study skills, reading and comprehension, lary work. The course is especially recommende students whose reading and study skills require help. Students may enroll in the class up to the twe the semester. May be repeated twice for credit.
LIT. 442 FILM STUDY AND APPRECIATION II.  Units (Grade Option)	WRIT 801 BASIC WRITING I.  Units (Credit Only)  Class Hours  Prerequisites:  Description: By means of individual and group inst course concentrates on basic skills in writing, stress and paragraph composition and standard writing and mechanics. May be repeated three times for credit writing and mechanics. May be repeated three times for credit writing and mechanics.
LIT. 455 THE NONFICTION FILM.  Units (Grade Option) 3  Class Hours 3 lecture hours/week  Prerequisites: None  Description: Study of the nonfiction film (including documentaries, propaganda films and poetic/lyrical films) in order to understand the nature, the potential, the power, and the impact of such films within the historical perspective of both motion pictures and the human condition.	Units (Credit Only)  Class Hours

LIT. 461 FILM MAKING.
Units (Grade Option) 3
Class Hours
Prerequisites: None
Description: Theoretical and practical course on the art and
technique of film making. Working from the conceptual stage, students will prepare scenarios, scripts and story boards. Using super 8mm equipment they will shoot film, edit their footage
into a meaningful visual form and ultimately produce short films.

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rk, this course ate flexibility. es, including rage reading,

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omprehension the class up

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#### **ENGLISH INSTITUTE**

The English Institute is designed for students whose native language is not English. Students may take from one to four courses per semester for a maximum of 18 units in any one semester. The beginning courses in the series are offered both Fall and Spring semesters. The program consists of one or more semesters of intensive or semi-intensive English language studies. It has been organized to encourage the student to complete the course of study in as little as one semester. The English Institute prepares the student for university transfer courses, for A.A. degree studies, and for vocational programs offered at Cañada College.

An English Institute Placement Test is given at the beginning of each semester and is required for all new students who have been absent from Cañada for more than one semester. The test results will be used for initial placement of students; individual instructors, however, may recommend a higher or lower placement based on classroom performance.

#### **INSTITUTO DE INGLES**

El Instituto de Inglés es para estudiantes cuya lengua nativa no sea el inglés. Estos estudiantes podrán tomar de uno a cuatro cursos por semestre, hasta un máximo de 18 unidades semestrales. Los cursos principiantes se ofrecerán durante los semestres de otoño y primavera. El programa consta de un semestre o más de estudio intensivo o semiintensivo del idioma inglés. Dicho programa ha sido organizado para alentar al estudiante a completar el curso en un semestre. El Instituto de Inglés prepara al estudiante para cursos transferibles a la universidad, para estudios por el diploma de Asociado en Artes (A.A. Degree), y para programas vocacionales que se ofrecen en el Colegio Cañada.

Un exámen de aptitud se realizará al principio de cada semestre y es requisito para todos los estudiantes nuevos y todos aquellos estudiantes quienes han estado ausentes del Cañada por más de un semestre. Los resultados del exámen se emplearán para la ubicación inicial de los estudiantes; sin embargo, instructores individuales también podrán recomendar una ubicación apropiada del estudiante, de acuerdo con su rendimiento en el salón de clase.

E.I. 311, 312 BASIC COMPOSITION I, II.  Units	
E.I. 821, 822, 823, 824 GRAMMAR I, II, III, IV. Units (Grade Option) 4 each Class Hours 4 lecture hours/week Prerequisites:	

word study and practice for students whose native language is

other than English. May be repeated once for credit.

E.I. 831, 832, 833, 834 LISTENING I, II, III, IV.  Units (Grade Option)
E.I. 841, 842, 843, 844 WRITING I, II, III, IV.  Units (Grade Option)

E.I. 871, 872 CULTURAL ORIENTATION I, II.
Units (Credit Only)
Prerequisites: None
Description: Independent laboratory practice for students who wish to improve listening comprehension, vocabulary, and general English language skills. Designed for students whose native language is other than English, the graded materials include topics related to American language, society, and culture. 0.5 units for each 24 hours of practice in the Media Learning Center and the Computer Center. The courses may be repeated once for credit. The materials include audio-tape and videotape recordings, films, multi-media programs, and other independent-learning and computerized learning materials.

#### **ENVIRONMENT**

ENVR 120 ECONOMIC GEOGRAPHY.
(Also GEOG 120)
Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites: None
Description: Investigation and description of basic resources used by humans. Evaluation of effects cultural and physical environments have on utilization of these resources. Emphasis
on industrialized regions of the world and interrelationship of urban growth and economic development.

A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

#### **FRENCH**

1	FREN 110 ELEMENTARY FRENCH.
I	Units 5 Class Hours 5 lecture hours/week
1	Prerequisites: None
I	Description: Conversation in the language, dictation, reading, study of the fundamentals of grammar and the writing of simple
	French exercises. The student is urged to make extensive use of the listening facilities in the language laboratory.

FREN 111 ELEMENTARY FRENCH I.  Units	FREN 162 READINGS IN FRENCH LITERATURE II. Units 3 Class Hours 3 lecture hours/week Prerequisites: FREN 161 Description: Further reading and discussion of works of French literature. Continued review of principles of grammar.
FREN 112 ELEMENTARY FRENCH II.  Units	FREN 196 FRENCH LANGUAGE LABORATORY. Units (Credit Only)
FREN 120 ADVANCED ELEMENTARY FRENCH.  Units	FREN 197 FRENCH PRONUNCIATION.  Units
FREN 121 ADVANCED ELEMENTARY FRENCH I.  Units	FREN 801 CONVERSATIONAL FRENCH I.  Units (Grade Option)
FRENCH II.  Units	University of California.)  FREN 802 CONVERSATIONAL FRENCH II.  Units (Grade Option)
Units	requirement at California State Colleges or at the University of California.)  FREN 803 CONVERSATIONAL FRENCH III.  Units (Grade Option) 2  Class Hours 3 lecture hours/week Prerequisites: FREN 802  Description: More advanced drill in the formulas and idioms of daily speech supported with sufficient grammar to give flexibi-
Units	lity in the spoken language with particular attention paid to enlarging the particular vocabulary. (This course will not fulfill language requirement at California State Colleges or at the University of California.)  FREN 804 CONVERSATIONAL FRENCH IV.  Units (Grade Option)
FREN 161 READINGS IN FRENCH LITERATURE I. Units	Class Hours

FREN 162 READINGS IN FRENCH LITERATURE II. Units
Prerequisites:
FREN 196 FRENCH LANGUAGE LABORATORY. Units (Credit Only)
understanding French.
FREN 197 FRENCH PRONUNCIATION. Units
Class Hours
FREN 801 CONVERSATIONAL FRENCH I.  Units (Grade Option)
FREN 802 CONVERSATIONAL FRENCH II.  Units (Grade Option)
FREN 803 CONVERSATIONAL FRENCH III.  Units (Grade Option)
FREN 804 CONVERSATIONAL FRENCH IV

A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study. GEOGRAPHY GEOG 100 PHYSICAL ENVIRONMENT. Units ...... 3 Class Hours ...... 3 lecture hours/week Prerequisites: ..... None Description: Basic characteristics of maps, the earth's grid, seasons, time zones, weather and climate, soils and vegetation, ocean currents, and landforms. The interrelationship of these basic factors will be analyzed in the regional framework of the entire earth's surface. GEOG 110 CULTURAL GEOGRAPHY. Units (Grade Option) ...... 3 Prerequisites: ..... None Description: Spatial distribution of the most important parts of human's cultural occupation of the earth. Consideration of culture within the geographic framework of race, language, religion, political boundaries, population distribution, settlement patterns, and making a living GEOG 120 ECONOMIC GEOGRAPHY. (Also ENVR 120) Prerequisites: ..... None Description: Investigation and description of basic resources used by humans. Evaluation of effects cultural and physical environments have on utilization of these resources. Emphasis on industrialized regions of the world and interrelationship of urban growth and economic development. GEOG 150 WORLD REGIONAL GEOGRAPHY. Prerequisites: ..... None Description: Survey of basic geographic regions of the world. Physical and cultural features of each region. Emphasis on historical influences and population growth. Location of important geographic features, such as rivers, mountain ranges, climatic regions, countries, states, and major cities. A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study. **GEOLOGY** GEOL 100 SURVEY OF GEOLOGY.

Prerequisites: ... Not open to students who have taken or are

Description: Basic principles of igneous, sedimentary and metamorphic geology. Lectures on rocks, minerals and the origin of

the earth, continents and mountains. The entire lecture portion

of this course is available as an individualized, self-paced,

slide-tape presentation in the Media Learning Center. Field trips

may be required.

2 lab hours/week

taking GEOL 210.

GEOL 110 GEOLOGICAL HAZARDS.
Units (Grade Option) 3 Class Hours 2 lecture hours/week
3field trips/semester
Prerequisites: GEOL 210 or GEOL 100 are recommended.
Description: Slide-illustrated lectures and field trips are used in a study of geologic hazards in California and especially in the San Francisco Bay Area. The course stresses earthquake and landslide hazards with less emphasis placed on volcanic hazards, sea wave hazards, dam failure hazards, bay pollution and oil spills.
GEOL 120 GEOLOGY OF THE NATIONAL PARKS AND MONUMENTS.
Units 3
Class Hours
GEOL 210 GENERAL GEOLOGY: DYNAMICAL AND STRUCTURAL.
Units
Class Hours
Description: An introduction to the nature and structure of the materials composing the earth's surface. Field trips may be required.
GEOL 220 HISTORICAL GEOLOGY.
Units
Description: Geological history of the earth and the evolution of its animal and plant inhabitants. Field trips may be required.
A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
GERMAN
GERM 110 ELEMENTARY GERMAN.
Units 5 Class Hours 5 lecture hours/week
Prerequisites:
patterns of German; development of a satisfactory pronuncia- tion; learning and using vocabulary of high frequency; reading of simple German texts. Students are urged to make use of the listening facilities in the language laboratory.
GERM 111 ELEMENTARY GERMAN I.
Units
Prorequisites:

Description: The basic principles of beginning German, offered

at a less intense pace than German 110. One semester equals

approximately half of German 110. May be used for fulfilling

transfer language requirements.

GERM 112 ELEMENTARY GERMAN II. Units	language requirement at California State Colleges or at the University of California.)  GERM 804 CONVERSATIONAL GERMAN IV.
Description: Further basic principles of beginning German, offered at a less intense pace than German 110. One semester equals approximately second half of German 110. May be used for fulfilling transfer language requirements.	Units (Grade Option) 2 Class Hours 3 lecture hours/week Prerequisites: GERM 803 Description: Further advanced drill in the patterns and idioms of
GERM 120 ADVANCED ELEMENTARY GERMAN. Units	daily speech is supported with sufficient grammar to give flexibility in the spoken language. (This course will not fulfill language requirement at California State Colleges or at the University of California.)
Description: Continuation of work begun in German 110, with continued practice in listening, speaking, writing, and reading of more difficult texts. Students are urged to make use of the listening facilities in the language laboratory.	A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
GERM 121 ADVANCED ELEMENTARY GERMAN I. Units	HEALTH SCIENCE
Class Hours 3 lecture hours/week Prerequisites: GERM 110 or GERM 112 Description: The basic principles of Advanced Elementary German, offered at a less intense pace than German 120. One semester equals approximately half of German 120. May be used for fulfilling transfer language requirements.  GERM 122 ADVANCED ELEMENTARY GERMAN II.	HSCI 101 HUMAN HEREDITY AND BIRTH DEFECTS.  Units (Grade Option 1 Class Hours (6 weeks) 3 lecture hours/week Prerequisites: None Description: Study of the principles of human heredity, sex determination, embryonic development, and their relationship to defects of genetic and environmental origin.
Units	HSCI 102 REPRODUCTION AND SEXUALITY — See BIOL 135.
Prerequisites: GERM 121 Description: Further basic principles of Advanced Elementary	HSCI 103 DRUGS AND ALCOHOL. Units
German, offered at a less intense pace than German 120. May be used for fulfilling language requirements.	Class Hours (6 weeks)
GERM 196 GERMAN LANGUAGE LABORATORY. Units (Credit Only)	Description: Survey of the societal and personal health problems involved in the use of alcohol and drugs. Included are physiological and psychological aspects of use and abuse.
Prerequisites: Concurrent enrollment in GERM 110, 111, 112, 120, 121, 122, 130, or 140.	HSCI 104 NUTRITION AND PHYSICAL FITNESS. Units
Description: A program consisting of 25-50 hours of work to be done in the language laboratory emphasizing speaking and understanding German.	Class Hours (6 weeks) 3 lecture hours/week Prerequisites: None Description: Study of the various aspects of good nutrition as
GERM 801 CONVERSATIONAL GERMAN I. Units (Grade Option)	they relate to physical fitness. Overweight, food fads, exercise are topics included.
Class Hours 3 lecture hours/week Prerequisites: None Description: A practical course in the German language approached by way of conversation. Intensive drill in the patterns and idioms of daily speech is supported with sufficient grammar to give flexibility in the spoken language. (This course will not fulfill language requirement at California State Colleges or at the University of California.)	HSCI 105 DISEASES.  Units (Grade Option)
GERM 802 CONVERSATIONAL GERMAN II. Units (Grade Option)	HSCI 106 MENTAL HEALTH.
Class Hours 3 lecture hours/week Prerequisites: GERM 801	Units (Grade Option) 1 Class Hours (6 weeks) 3 lecture hours/week
Description: Further drill in the patterns and idioms of daily speech is supported with sufficient grammar to give flexibility in the spoken language. (This course will not fulfill language	Prerequisites:  Description: Study of personality development and emotional health including behavioral aspects, adjustment stress and problem-solving techniques.
requirement at California State Colleges or at the University of California.)	HSCI 107 CONSUMER HEALTH. Units
GERM 803 CONVERSATIONAL GERMAN III. Units (Grade Option)	Class Hours (6 weeks) 3 lecture hours/week Prerequisites: None
Class Hours	Description: A common-sense guide to the health services of today. Topics will include: selection of appropriate medical services and medical insurance plans, avoidance of "quackery" and frauds in medicine, sensible selection of health care pro-
flexibility in the spoken language. (This course will not fulfill	ducts.

CERM 112 ELEMENTARY CERMAN I

HSCI 110 FIRST AID. Units	HIST 202 UNITED STATES HISTORY SINCE 1865. Units (Grade Option)
Class Hours (6 weeks)	Class Hours 3 lecture hours/week Prerequisites: None. HIST 201 is recommended. Description: Continues the work of HIST 201. Begins with the Reconstruction Period and explores industrial and urban expansion, economic and social development, patterns of liberal reform, and the foreign and domestic policies of the U.S. up to the present. (Fulfills American Institutions requirement.)
public high school since 1952.  HSCI 410 MICROCOMPUTER FOR HEALTH SCIENCES.  Units	HIST 205 RELIGION IN AMERICA.  Units (Grade Option)
tory and applications for these fields will be provided.  A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.	Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None. HIST 201 or 202 recommended. Description: This survey course begins with a chronological study of the history of black Americans, from medieval Africa through the slave trade, American slavery, abolitionism, the
HISTORY	Civil War and Reconstruction, Jim Crow America, the Harlem Renaissance, the 1930s and the "modern" civil rights period. In
HIST 100 HISTORY OF WESTERN CIVILIZATION. Units (Grade Option)	addition, it includes a study of the nature, causes, and effects of racial prejudice, and considers various means of dealing with, and trying to overcome, racism and prejudice in American society. (Fulfills Ethnic Studies or American Institutions requirements.)
ancient world, the rise of Christianity, the growth and decline of Medieval society, the Renaissance, the Reformation and the	HIST 310 CALIFORNIA HISTORY. Units (Grade Option)
opening of the modern world.  HIST 101 HISTORY OF WESTERN CIVILIZATION.  Units (Grade Option)	Prerequisites:
HIST 102 HISTORY OF AMERICAN CIVILIZATION.  Units (Grade Option)	HIST 315 HISTORY OF SAN MATEO COUNTY.  Units (Grade Option)
HIST 201 UNITED STATES HISTORY TO 1865. Units (Grade Option)	contemporary social, economic, and political issues such as population shifts, land development, and voting trends. (Fulfills State and Local Institutions requirement.)
Prerequisites: None Description: A survey of U.S. history beginning with English colonization along the Atlantic Coast, and including the westward expansion of the colonists, the Revolution, the creation of the Constitution, the Federalist and Jeffersonian philosophies, the forces of sectionalism and nationalism, slavery and abolition, and the Civil War and Reconstruction. Economic, political, social and intellectual patterns of the period are examined. (Fulfills American Institutions Requirement.)	HIST 421 HISTORY OF AMERICAS.  Units (Grade Option)
Control of the Contro	

HIST 422 MODERN LATIN AMERICA.  Units (Grade Option)	H.EC 112 KNITS AND WOVENS.  Units (Grade Option)
HIST 451 FAR EASTERN CIVILIZATION AND HERITAGE.  Units (Grade Option)	wovens, and c) lingerie and swimwear techniques. May be repeated three times for credit.  H.EC 113 TEXTILES.  Units (Grade Option)
HIST 452 FAR EASTERN CIVILIZATION AND HERITAGE. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: A historical survey of the cultural achievement of China and Japan from about the 13th Century to the present. This course will recapitulate briefly the old cultural traditions, but the main discussion will be concerned with foreign inva- sions, influences, and subsequently the intended colonialism of foreign countries. Modern political development and national- ism will also be discussed and an attempt will be made to show their ramifications on contemporary Asian-Americans. (Fulfills Ethnic Studies requirement.)	H.EC 115 INTERMEDIATE CLOTHING CONSTRUCTION Units (Grade Option) 3 Class Hours 3 lecture/demonstration hours/week Prerequisites: H.EC 110 or 111 or 112, or equivalent. Description: Use of special fabrics such as plaids, silks, napped fabrics. Intermediate sewing techniques such as collars, button- holes, pockets, and detailing. Use of interfacing and linings. May be repeated three times for credit.  H.EC 116 ADVANCED CONSTRUCTION/TAILORING. Units (Grade Option) 3 Class Hours 3 lecture/demonstration hours/week Prerequisites: H.EC 111 or 115 or equivalent.
HIST 650 SPECIAL TOPICS SEMINAR. Units (Grade Option) 1-3 Class Hours 16-48 lecture hours/semester Prerequisites: None Description: Study of important intellectual, economic, or political trends of a particular period in history. The period and subject will vary upon interest of instructor and students.	Description: Techniques of professional dressmaking and tailoring applied to the construction of suits and coats. Emphasis will be on techniques, fit, and creative pattern adaptation. Field trips to study design and fabrics. May be repeated three times for credit.  H.EC 117 FASHION IMAGE.  Units (Grade Option)
A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.  HOME ECONOMICS	Class Hours  Prerequisites:  Description: Selection of clothing and accessories based on analyzing and understanding personal coloring, figure proportions, life style, and fashion trends. Field trips and guest speakers. Recommended to merchandising, fashion retailing, and business students, as well as others interested in their
H.EC 110 BEGINNING CLOTHING CONSTRUCTION.  Units (Grade Option)	appearance and its effect on others. May be repeated once for credit.  H.EC 118 FLAT PATTERN DESIGN.  Units (Grade Option)
H.EC 111 TECHNIQUES OF FIT.  Units (Grade Option)	H.EC 120 CREATIVE CLOTHING CONSTRUCTION.  Units (Grade Option) 3 lecture hours/week Prerequisites: H.EC 111 Description: Learning how to design or copy garments by combining and/or altering commercial patterns. Learning how to interpret from magazine sketch or picture to make an accurate copy. Patternmaking theory will be reviewed. Three garments will be made. May be repeated three times for credit.

H.EC 122 CONSTRUCTION OF CHILDREN'S CLOTHING. Units (Grade Option)	H.EC 150 HISTORY OF FASHION.  Units (Grade Option) 1-3  Class Hours 2-3 lecture hours/week  Prerequisites: None  Description: Survey course of fashion from ancient Egypt to present day with particular emphasis on the 19th & 20th Centuries. Background for judging fashion trends and fads.  Class may be offered in 1- or 1-5-unit modules. One-unit modules would be a) Egyptian time through 19th Century, b)
repeated three times for credit.  H.EC 123 INTRODUCTION TO THE FASHION INDUSTRY. Units (Grade Option)	20th Century, and c) fashion trending.  H.EC 151 FASHION MERCHANDISING.  Units (Grade Option) 3  Class Hours 3 lecture hours/week Prerequisites: None Description: An overview of the retail fashion industry and career options. Students will plan promotions, select a merchandise assortment, identify fashion trends and develop effective human relations and communications skills. Field trips and guest speakers.  H.EC 307 FOOD PREPARATION.  Units (Grade Option) 3  Class Hours 3 lecture/demonstration hours/week
art in clothing will be researched. May be repeated three times for credit.  H.EC 125 ALTERATIONS.  Units (Grade Option)	Prerequisites:  Description: Introduction to basic skills in food preparation, recipe development, menu planning, and cost analysis. Food demonstrations, tasting, home practice included. Includes microwave cooking techniques. May be repeated three times for credit.  H.EC 310 NUTRITION. (Also BIOL 310)  Units (Grade Option)  Class Hours  3 lecture hours/week Prerequisites  None Description: Study of scientific principles of nutrition and interrelationships of metabolism; normal nutritional requirements through life cycle; consideration of health hazards of nutritional imbalance; emphasis on nutritional content of foods; evaluating diets and advertising; learning to use scientifically recognized nutrition references and consumer information.
Description: Learn the tips and techniques to make dressmaking and alterations profitable. Learn pricing, how to build your clientele, time management, record keeping, and other necessary skills. May be repeated three times for credit.  H.EC 128 DECORATING WITH FABRIC.  Units (Grade Option)	H.EC 312 NUTRITION IN HEALTH AND DISEASE. (Also BIOL 312) Units (Grade Option)
H.EC 129 UPDATE ON TECHNIQUES. Units (Grade Option)	Units (Grade Option) 3 Class Hours 3 lecture/demonstration Prerequisites: 3 lecture/demonstration Description: Lectures in realistic application of sound nutrition principles. Emphasis is placed on methods to improve diet by lowering total fat, sugar, and salt content of the American Diet, using food demonstrations, food tasting, and home food preparation practice. May be repeated three times for credit.

H.EC 410 MANAGEMENT OF TIME AND RESOURCES.  Units (Grade Option) 2 Class Hours 2-3 lecture hours/week Prerequisites: None Description: Emphasis on time management and decision making. Energy management, work simplification, money management with emphasis on record keeping will be covered. Introduction to personal computer software in the home manage- ment field will be included. May be repeated once for credit.	
H.EC 416 CONSUMER DECISION MAKING. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Study of the skills needed for decision making by consumers in American society. Consumerism, rights and re- sponsibilities, protection agencies, legislation, and practical rules of buymanship.	
H.EC 420 COMPUTER APPLICATIONS FOR HOME MANAGEMENT. Units (Grade Option) 1 Class Hours (6 weeks) 3 lecture/demonstration	
Prerequisites:  Description: Overview of home computer software as tools in home management. Sources of software and relative costs. Review of representative software for record keeping, word processing, nutrition and menu management, textiles and clothing, child development, decision making, and family education. Chance to see how software can be selected and customized. Demonstration on IBM, APPLE, and TI home computers. May be repeated once for credit.	
H.EC 699 CLOTHING CONSTRUCTION LABORATORY Units (Credit/No Credit)	
H.EC 830 CONSUMER ENERGY CONSERVATION. Units (Grade Option)	
A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.	1
HUMANITIES	1
HUM. 100 INTRODUCTION TO THE HUMANITIES.	t
Units (Grade Option)	1
Class Hours	(

Description: Survey of the Humanities (Art, Drama, Literature, Music), their uniqueness, their interrelatedness, their ability to reflect human development and aspirations. Introduces a variety of disciplines; particularly helpful for those undecided about an

area of concentration.

A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# INTEGRATED INFORMATION PROCESSING.

OFAD 100 INTRODUCTORY TYPEWRITING.

Units (Grade Option) 1-3 Class Hours 5 supervised lab hours/week Prerequisites: None Description: Opportunity to develop correct typewriting techniques, keyboard mastery, and basic skill in typing. Each unit earned upon mastery and completion of specified lessons, tests, and speed skill. Audio-visual method of instruction is used.
OFAD 105 TYPEWRITING FOR SPANISH SPEAKING STUDENTS. Units (Grade Option)
Class Hours
able. Each unit earned upon mastery and completion of speci- fied lessons, tests, and speed skill. Audio-visual method of

# OFAD 110 INTERMEDIATE TYPEWRITING.

instruction is used.

Units (Grade Option) 1-3
Class Hours 5 supervised lab hours/week
Prerequisites: OFAD 100 with C or better. Description: Improvement of typing speed and accuracy, and development of skill in typing letters, tables, reports, and other business documents. Each unit earned upon mastery and completion of specified lessons, tests, and speed skill. Audiovisual method of instruction is used.

# OFAD 145 TYPEWRITING SKILL BUILDING. copy with correct technique, to develop accuracy, and increase speed. May be repeated once for credit.

# OFAD 200 SHORTHAND FOR THE ELECTRONIC OFFICE (GREGG SYSTEM).

Units (Grade Option) 1-3
Class Hours 3 lecture/2 lab hours/week
Prerequisites: Enrollment in or completion of OFAD 110 or equivalent, and enrollment in or completion of OFAD 400 or ENGL 100 or 801.

Description: An introductory course in Gregg Shorthand for the modern office with practice in simple dictation and transcription. Word processing equipment can be used for transcription. May be repeated once for credit.

# OFAD 240 SHORTHAND ENRICHMENT (GREGG SYSTEM).

for credit.

OFAD 300 WP: MACHINE TRANSCRIPTION.	OFAD 412 FILING AND RECORDS MANAGEMENT.
Units	Units
OFAD 331 INTRODUCTION TO WORD PROCESSING CONCEPTS.  Units (Grade Option)	OFAD 450 THE INTEGRATED OFFICE.  Units
OFAD 332 BASIC WORD PROCESSING (WANG SYSTEM).  Units (Grade Option)	sonal experiences. An open-entry, open-exit course.  A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
repeated once for credit.  OFAD 333 INTERMEDIATE WORD PROCESSING (WANG SYSTEM).  Units (Grade Option)	INTERIOR DESIGN INTD 115 YOUR HOME AND YOUR ENVIRONMENT. Units (Grade Option)
footers, automatic page numbering, dual column, tables, and introduction to glossary. May be repeated once for credit.  OFAD 334 ADVANCED WORD PROCESSING (WANG SYSTEM).  Units (Grade Option)	INTD 125 DETAILING INTERIORS.  Units (Grade Option)
Description: Course will include glossary, math, sort, reload system, duplicate diskette, compressed diskette, footnotes, setting up files, and supervisory techniques. May be repeated once for credit.  OFAD 400 BUSINESS ENGLISH.  Units	INTD 146 GRAPHICS FOR INTERIORS.  Units (Grade Option)
development of language arts skills through the study of basic sentence structure, grammar, punctuation, capitalization, word usage, and editing.  OFAD 401 BUSINESS COMMUNICATIONS.  Units	isometric drawings. May be repeated once for credit.  INTD 147 INTERIOR SPACE PLANNING.  Units (Grade Option)

INTD 148 COLOR FOR INTERIORS.  Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: The application of basic color systems to the visual control of interior space. Practice of design principles which govern the use of interior color composition of objects. Relation of color-as-light to color-as-pigment illustrated with structural materials, paints and finishes, furniture, fabrics, lighting, decora- tive accessories.
INTD 150 HISTORY OF INTERIORS.  Units (Grade Option) 3  Class Hours 3 lecture hours/week Prerequisites: None Description: Traces the history of Western man's dwellings, their interiors, and how they were furnished. A survey of architecture, interior design, and furniture from the cave to today. Obligatory for prospective interior designers and architects. Meaningful for traveler, novice, professional, and those self-enrichment.
INTD 156 PORTFOLIO/PROJECTS.  Units (Grade Option)
INTD 160 DECORATING TECHNIQUES.  Units (Grade Option)
INTD 170 FABRICS FOR INTERIORS.  Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Fabrics for home furnishings will be studied and evaluated with emphasis on selection, use, care, and performance relative to cost. Each step in the textile fabrication process, from fiber to fabric, from loom to yardage, will be analyzed for carpets, draperies, upholstery, and household linens. Individual in-depth studies will be compiled into resource booklets. Field trips to wholesalers, processors, and fabricators. For career or personal use.
INTD 180 CONTRACT DESIGN.  Units (Grade Option) 3  Class Hours 3 lecture hours/week  Prerequisites: ARCH 110, INTD 147, 260  Description: Study of field of contract design from historical and contemporary perspectives, analyzing needs of non-residential interiors and public spaces. Project in space planning, interior landscaping, and all aspects of design plus data collection, computer planning, support centers, paper storage and retrieval, work flow, human needs, and barrier-free design.

INTD 245 INTERNSHIP IN HOME FURNISHINGS.  Units
INTD 250 PROFESSIONAL PRACTICES.
Units
INTO 260 FUNDAMENTALS OF LIGHTING.
Units (Credit Only)
INTO 270 FUNDAMENTALS OF KITCHEN DESIGN.
Units (Credit Only)  Class Hours  Prerequisites:  Description: Application of all the basic principles of kitchen design necessary for preparation for the job market. Study of floor plans drawn to scale, available products, new design concepts, and colors reflecting individual family needs, work habits, and entertaining style to justify the financial expenditure. Class project designing a kitchen. Field trips, guest speakers, and visits to homes.
INTD 271 FUNDAMENTALS OF BATH DESIGN.
Units (Grade Option)
INTD 274 REMODELING CONSTRUCTION
Units (Grade Option)  Class Hours  Prerequisites:  Description: A complete overview of home construction with special emphasis on remodeling, including basic design materials, work sequence, vocabulary of building, tools of industry, codes, permits, and inspections.
INTD 276 ADVANCED KITCHEN AND BATH DESIGN. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: INTD 270, 274, or concurrently. Description: Kitchen and bath designs will be developed using creative application of design concepts and principles. Products and materials will be studied for best usage to obtain personalized spaces. Specialized application of color, finishes, decorative detail, lighting, and plumbing will be covered.

INTD 278 MARKETING AND SALESMANSHIP FOR INTERIOR DESIGN. Units (Grade Option)	INTD 355 COMMERCIAL CONSTRUCTION.  Units (Grade Option)
INTD 320 ORIENTAL ART FOR INTERIORS— CHINA AND KOREA. Units (Grade Option)	Class Hours
INTD 321 ORIENTAL ART FOR INTERIORS—  JAPAN AND S.E. ASIA.  Units (Grade Option)	Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: 3 lecture hours/week Prerequisites: 5 Description: Step-by step process in designing a beautiful room that will function well. Students work with their personal design problems creating an atmosphere appropriate to their lifestyle within the economic means available to them. Do-it-yourself techniques to bring new life and personality to personal environments. Not recommended for the career interior design major.
INTD 322 ORIENTAL ART FOR INTERIORS— INDIA, JAPAN, PHILIPPINES. Units (Grade Option)	INTD 450 HOME FURNISHINGS CONSUMER.  Units (Grade Option)
INTD 350, 351 COMMERCIAL DESIGN. Units (Grade Option) 3, 3 Class Hours 3 lecture hours/week Prerequisites: INTD 115, 146, 147, 148, 260, 355, ARCH 110; INTD 260 and 355 may be taken concurrently with 350. Description: Experience in designing interiors of multiple unit	Announcement of Courses, page 31: 6/0 Cooperative Education, 680 Selected Topics; 690 Research Projects; 595 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
commercial spaces (high rise offices, small buildings, hospitals, hotels) using work flow analysis, programming (gathering space and staff requirements), 3-dimensional design (axonometrics, isometrics, quick sketching, complete specifications, including furniture and furnishings, budget estimating, extensive and precise documentation, working drawings, techniques of presentation, time/work log.  INTD 354 RESIDENTIAL BUILDING SYSTEMS.	ITAL 801 CONVERSATIONAL ITALIAN I.  Units (Grade Option)
Units	ITAL 802 CONVERSATIONAL ITALIAN II.  Units (Grade Option)

JOUR 220 INTRODUCTION TO ADVERTISING. Units
student taking a product or service and marketing it through to the consumer. The course will also include the selection of media and media placement.
JOUR 230 INTRODUCTION TO PUBLIC RELATIONS. Units
on the process of influencing public opinion, effective communication techniques, and the basic steps in public relations programming.
JOUR 300 NEWSPAPER PRODUCTION. Units
tion in principles of responsible editorial decision-making. Discussion and criticism of staff organization and newspaper content. May be repeated three times for credit.
A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
LIBRARY SCIENCE
LIBR 100 INTRODUCTION TO LIBRARY RESOURCES. Units (Grade Option)
libraries; effective use of such services and resources as maga- zines, newspapers, reference books, and microfilm materials for writing the term paper is a primary objective of the course.
A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
MANAGEMENT
MGMT 100 MANAGEMENT THEORY. Units (Grade Option)
placed on theory, practice, and organization, and how they are applied to the major functions of management.
MGMT 105 FINANCIAL MANAGEMENT FUNDAMENTALS. Units (Grade Option)

organizations. MGMT 120 MANAGEMENT COMMUNICATION. Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites: None Description: The communication process-both verbal and written. Lectures, discussions, case studies, and oral presentations on such topics as the relationship between communication and the organizational climate, perception, motivation, and the causes and patterns of barriers to effective communication. MGMT 130 LABOR RELATIONS FOR MANAGEMENT. Units (Grade Option) ..... Class Hours ...... 3 lecture hours/week Prerequisites: ..... None Description: Employee/management relations emphasizing: wage systems, working conditions, productivity, union organizations, collective bargaining, and unemployment. Labor/ management conflicts from the point of view of wage earner, employer, general public, and governments. MGMT 136 BUDGET AND PLANNING. student a basic understanding of the budgetary and planning process as utilized in business and government. Strong emphasis is placed on the inter-relatedness of planning, budgeting, and evaluating processes within contemporary public and private sector organizations. MGMT 137 PERFORMANCE MEASUREMENT TECHNIQUES. student a basic understanding of performance measurement techniques presently being used in business and government. Emphasis will be placed on philosophy, techniques, and outcomes of performance appraisals as mechanisms for professional growth and development. MGMT 215 MANAGEMENT OF HUMAN RESOURCES. the personnel function including selection and placement, wage and salary procedures, affirmative action programs, performance appraisals, training and staff development. MGMT 220 ORGANIZATIONAL BEHAVIOR. Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites: None Description: Individual motivation, interpersonal communication, organizational influence, group dynamics and decision making in the organization; the relationships between culture, structure, and technology; leadership and the managing of organizational conflict. MGMT 225 OFFICE MANAGEMENT. Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites: None Description: Organization and planning of office services, office

environment, and equipment; human relations and behavioral

financial business situations and enable the student to study and

analyze financial problems of both small and large business

concepts; new dimensions of information management including "the automated office of the future."

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MGMT 281 PUBLIC ADMINISTRATION MANAGEMENT.
Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites: None
Description: Designed to give the student a basic understanding of principles and concepts underlying the organization and management of public organizations. Federal, state, regional, and local governmental structures, policies, and procedures will
be examined. Particular emphasis will be placed on establishing programs reflecting public policy and on public accountability.

MGMT 282 PUBLIC FINANCE.
Units (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites: None
Description: Organization and functions of governmental fiscal
administration; financial planning and control; analysis of the
budget process, concepts of taxation, various types of revenue sources; inter-governmental financial relationships; debt manage-
ment; special assessments; capital improvement budgeting.
ment, special assessments, capital improvement surgers.

A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# **MATHEMATICS**

A normal sequence of mathematics courses at Cañada College is 110, 120 or 121, 115, 130, 220, 251, 252, 253, 275, 270. A student who qualified for a particular mathematics course is eligible for any course lower in the sequence. If the student has not taken a mathematics course during the previous two years, it is strongly recommended that the student enroll in a course below the one for which he/she would normally be eligible. In general, eligibility of an incoming freshman for a mathematics course is determined by an evaluation of his/her transcript and scores on the qualifying tests.

Prerequisites for the various courses are detailed in the descriptions which follow. Where reference is made to mathematics of high school level, this means college preparatory mathematics beginning with elementary algebra, taken in elementary or secondary school.

who has not had the prerequisite course, must have the approval of the Division Director. Questions regarding the equivalency of college preparatory mathematics beginning with elementary algebra, taken in elementary or secondary school should also be referred to the Division Director.
MATH 105 ELEMENTARY SCHOOL NUMBER SYSTEMS.  Units (Grade Option)
MATH 110 ELEMENTARY ALGEBRA. Units (Grade Option)
MATH 111, 112 ELEMENTARY ALGEBRA. (Evening Only) Units (Grade Option)
MATH 115 GEOMETRY.  Units
MATH 120 INTERMEDIATE ALGEBRA.  Units
Description: Extension of fundamental algebraic concepts and operations, binomial expansion, solution of linear and quadratic equations individually and in systems, determinants, radical equations, complex numbers, introduction to theory of equations.
MATH 121 INTERMEDIATE ALGEBRA. (Evening only) Units

A student who wishes to enroll in Mathematics 252, 253, and

	MATH 125 ELEMENTARY FINITE MATHEMATICS.
PD	lass Hours 3 lecture hours/week rerequisites: MATH 120 or 121 with grade of C or better. Description: Introduction to finite mathematics with attention to et theory, counting theory, probability, systems of equations, ector and matrix theory, inequalities and linear programming. Qualifying exam given during first week.
N	MATH 126 FINITE MATHEMATICS WITH COMPUTER APPLICATIONS.
CP	Inits
P te lin	description: A broad survey course of mathematics and com- uter applications in logic and set algebra, algorithms, counting echniques, probability and statistics, numerical algorithms, mear programming and other applications of matrices. Com- uter software will be provided to aid in the analysis of these opics.
	MATH 130 ANALYTICAL TRIGONOMETRY.
P	lats
ti st tr	grades of C or better. grades of C or better. bescription: Trigonometric functions of real numbers and engles, their graphs and periodicity; reduction formulas; functions of multiple angles; identities and equations; radian measure; inverse functions, logarithms and exponents, solution of itangles; complex numbers and De Moivre's theorem. Qualifying exam given during first week.
	AATH 200 ELEMENTARY PROBABILITY AND STATISTICS.
P	lass Hours
ti	description: Treatment of use/misuse of data, measures of central tendency and dispersion, probability, sampling distributions, statistical inference, regression and correlation, continency tables, time series analysis, index numbers. Qualifying man given during the first week.
	AATH 219 PRE-CALCULUS COLLEGE ALGEBRA/ RIGONOMETRY.
U	Inits
P	rerequisites: MATH 130 or equivalent with grade of C or etter, or seven semesters of high school level mathematics with grades of C or better.
n ti ti m	description: Unification of college algebra and analytical trigo- cometry based on the function concept. Topics include: proper- es of the real number, system, inequalities, theory of equa- ons, complex numbers, logarithmic and exponential functions, natrices, biomial theorem, sequence inverse functions. Qualify- ing exam given during first week.
	AATH 220 PRE-CALCULUS COLLEGE ALGEBRA.
P	lates
to	Description: Study of more advanced algebra including such oppics as theory of equations, complex numbers, logarithmic and exponential functions, matrices, vectors, binomial theorem, equences. Qualifying exam given during first week.

MATH 241, 242 APPLIED ANALYTIC GEOMETRY AND CALCULUS.	MATH 811 PRE-ALGEBRA. Units (Grade Option)
Units	Prerequisites:  Description: Review of the fundamental processes in arithmetic; reading mathematical notation; translating words into symbols; properties of the real number system. May be repeated up to 3 units.
Description: A two-semester sequence for students of business, social sciences, technology and life sciences. Topics include: analytic geometry, limits, differentiation, integration, extrema, partial derivatives, calculus of trig/log functions and other	A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
selected topics. Qualifying exam given during first week.	MICROBIOLOGY
MATH 251 ANALYTICAL GEOMETRY AND CALCULUS.	MBIO 240 GENERAL MICROBIOLOGY.
Units	Class Hours
semesters of high school level mathematics, each with a grade of B or better.  Description: Basic concepts of calculus. Includes plane analytic geometry, differentiation, integration, differentials and anti-	Description: Morphology and physiology of microorganisms with emphasis on bacteria. Approximately 30 percent of course time is spent on microbes other than bacteria. Laboratory exercises include media making, isolation, and some of the
derivative formulas; application. Qualifying exam given during	standard methods employed in water and milk analysis.
MATH 252, 253 ANALYTICAL GEOMETRY AND CALCULUS. Units	A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
Class Hours	MICROCOMPUTER APPLICATIONS
better.	ACTG 190 COMPUTERIZED ACCOUNTING.
Description: Further development of the basic theory of differential and integral calculus as applied to circular, hyperbolic, logarithmic and exponential functions; extension of the techniques of integration; polar coordinates; vectors; infinite series; solid analytic geometry; partial differentiation; multiple integration, vector calculus.	Units
MATH 270 LINEAR ALGEBRA.	BUS. 415 COMPUTER KEYBOARDING.
Units	Units (Credit/No credit)
MATH 275 ORDINARY DIFFERENTIAL EQUATIONS.	software materials. Use of special function keys and computer printer will be introduced. Strongly recommended to be taken
Units	preceding to or concurrent with computer applications courses.  BUS. 420 INTRODUCTION TO APPLE COMPUTER.
Prerequisites: MATH 253 (or equivalent) with grade C or better. When approved by the instructor, may be taken concurrently with MATH 253.	Units (Grade Option)
Description: Differential equations of first, second and higher order; simultaneous, linear, homogeneous equations; solutions by power series; numerical methods; Laplace transformations, and applications.	Prerequisites: None Description: Applications for microcomputers. This will include discussions and demonstrations of current microcomputer software and also introduction to more advanced microcomputer BASIC techniques.
MATH 410 TECHNICAL MATH.	BUS. 421 ADVANCED APPLE COMPUTER.
Units	Units (Grade Option)
Description: A survey of fractions, reciprocals, similar triangles, proportions, sine, tangent relationships, inverse law and graphing. Qualifying exam given first week of class.	Prerequisites: BUS. 420 Description: Advanced applications for microcomputers including business applications. Topics such as word processing,

spreadsheets, database management and other software will be discussed and demonstrated.
BUS. 430 INTRODUCTION TO IBM-PC. Units (Grade Option)
BUS. 431 ADVANCED MICROCOMPUTER FUNDAMENTALS.
Units (Grade Option) 1.5 Class Hours 3 lecture/2 lab hour/week Prerequisites: BUS. 430 or equivalent. Description: Advanced fundamentals of microcomputer use emphasizing the IBM-PC. Applications explored include menus, communications, local area networks and integrated software.
BUS. 432 MICROCOMPUTER WORD PROCESSING: WORDSTAR.+
Units (Grade Option) 3 Class Hours 3 lecture/2 lab hours/week Prerequisites: Keyboard 25 wpm. Description: Introduction to word processing on a microcomputer utilizing WordStart on the IBM-PC. Includes: loading, creating files, inputting, editing, filing, formatting, and printing.  †Micropro™
BUS. 433 MICROCOMPUTER WORD PROCESSING: DISPLAYWRITE.
Units (Grade Option)
BUS. 434 MICROCOMPUTER SPREADSHEET: LOTUS 1-2-3.‡
Units (Grade Option) 3 Class Hours 3 lecture/2 lab hours/week Prerequisites: None Description: An introduction to the use of spreadsheets concepts in solving business—related problems. IBM-PC LOTUS 1-2-3‡ will be utilized in this basic course. Strongly recommended enrollment in BUS. 415 preceding or concurrent with this course. ‡Lotus Dev. Corp.™
BUS. 436 DATA BASE MANAGEMENT: dBASE.
Units (Grade Option) 3 Class Hours 3 lecture/2 lab hours/week Prerequisites: None Description: An introduction to data base management techniques for common business applications. dBASE III will be used on the IBM-PC to develop and report from a data base. The student will design the data base, establish the data entry screens and produce complex business reports from the data base. Strongly recommended enrollment in BUS. 415 preceding or concurrent with this course.
BUS. 438 INTRODUCTION TO MICROCOMPUTER GRAPHICS.
Units (Grade Option)  Class Hours  Prerequisites:  BUS. 430 or equivalent.  Description: An introduction to the use of graphics on microcomputers, with emphasis on the IBM-PC. Topics covered include

hardware, software, and the display of visual information. Software covered will include computer-assisted design, computer-assisted publishing, drawing programs, and standard business graphs.

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HSCI 410 MICROCOMPUTER FOR HEALTH SCIENCES.
Units 1
Class Hours (8 weeks) 2 lecture hours/week
Prerequisites:
Description: An introduction to microcomputers for students in
Health Science related fields. Demonstrations, hands-on labora-
tory and applications for these fields will be provided.
H.EC 420 COMPUTER APPLICATIONS FOR HOME

MANAGEMENT.	
Units (Grade Option)	
Class Hours (6 weeks)	
	hours/week

Prerequisites:

None
Description: Overview of home computer software as tools in home management. Sources of software and relative costs. Review of representative software for record keeping, word processing, nutrition and menu management, textiles and clothing, child development, decision making, and family education. Chance to see how software can be selected and customized. Demonstration on IBM, Apple, and TI home computers. May be repeated once for credit.

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Description: Fundamentals of 2- and 3-dimensional drafting and architectural detailing for space planning for interior designers and architects. Basics of 2-D drafting include floor plans, traffic patterns, room plans, furniture and equipment placement, with conversions to 3-D. Also 2-D drawings of lighting, electricity, HVAC, plumbing, sprinkler systems and telephone distribution. IBM-PC will be used.

A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# CTEC 520 MICROPROCESSOR INTERFACING APPLICATIONS. Units Class Hours plus five 3-hour lab/week, for 3 weeks Prerequisites: Completion of CTEC 500 with a grade of C or better. MICROCOMPUTER **TECHNICIAN** CTEC 400 TECHNICAL CALCULATIONS AND STUDY Description: Theory and application of microprocessors in real time control of input and output devices such as keyboards, printers, and displays. Connection of a single board microcomputer to analog-to-digital and digital-to-analog conversion circuits. Instruction in troubleshooting of single board microcomputers and peripheral electronic and electromechanical equipment Prerequisites: None Description: How to study a highly technical subject, including skills for making notes during lecture and home study. Learning to listen and read with care for accurate reception of the ment. meaning in technical talk and text. Instruction in the use of the A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; scientific calculator to solve numerical problems in basic electronics. CTEC 420 DIRECT AND ALTERNATING CURRENT 880 Other Selected Topics; 895 Other Independent Study. FUNDAMENTALS. MUSIC MUS. 100 FUNDAMENTALS OF MUSIC. principles and theory of the use of resistors, capacitators, and inductors. An analysis of basic circuit connections with applied DC only, AC only, and DC plus AC. Instruction in the use of the electronic voltmeter, dual trace oscilloscope, function generator, frequency counter, and other basic laboratory instruments. How to troubleshoot simple circuits. CTEC 440 SEMICONDUCTOR DEVICES AND CIRCUITS. MUS. 101 MUSICIANSHIP I. Units (Grade Option) 2 Class Hours 3 lecture/1 lab hour/week Prerequisites: None Description: Music notation, keys, key signatures, intervals, sight reading and ear training. Some pianistic ability desirable. MUS. 102 MUSICIANSHIP II. instruments and basic troubleshooting techniques for solid state devices and simple circuits. CTEC 460 DIGITAL DEVICES AND CIRCUITS. ture, intervals, sight reading, ear training. MUS. 103 MUSICIANSHIP III. Units (Grade Option) 2 Class Hours 3 lecture/1 lab hour/week Prerequisites: MUS. 102 Description: Continuation of MUS. 102. Emphasis is on ear training and sight reading. grade of C or better. Description: Study of the truth tables and logical expressions for gate circuits. Interpretation of technical data manuals for functional characteristics of small and medium-scale integrated devices, such as gates, multiplexers, counters, registers, and solid state memory and display. Use of dual trace oscilloscope and logic probe for analysis and troubleshooting. MUS. 131 HARMONY I. CTEC 500 MICROPROCESSOR PRINCIPLES. order to develop the ability to harmonize melodies on paper or at the keyboard. MUS. 131 & 132 carry the student from simple triads through and including chords of the dominant seventh. Prerequisites: ..... Completion of CTEC 460 Usually taken concurrently with MUS. 101 & 103; some piano with a grade of C or better. Description: Discussion and application of how a microprocessor controls a single board microcomputer like the laboratory trainer. Study of the microprocessor instruction set, source ability is essential. MUS. 132 HARMONY II. program mnemonics, flowcharts, and simple programs and subroutines. Execution of programs on a laboratory trainer, and tracing the control, address, and data signals by means of a logic

probe and oscilloscope. Construction and troubleshooting of test

circuits on the trainer.

Description: Further study of chords and their relation to each

MUS. 133 HARMONY III.  Units	MUS. 305, 306, 307, 308 KEYBOARD HARMONY.  Units (Grade Option)
Units	foundation for improvisation at the keyboard. Some pianistic ability is helpful but not required.  MUS. 309 ACCOMPANYING.  Units
MUS. 135 COMPREHENSIVE MUSICIANSHIP. Units (Grade Option)	Prerequisites: Advanced ability.  Description: Skills and techniques of playing accompaniments for singers, instrumental soloists and choral groups. Performance is an essential part of this course. May be repeated three times for credit.
"Root Movement" in European music from 1700-1850.  MUS. 150 COMPOSITION.  Units	MUS. 321, 322, 323, 324 BRASS INSTRUMENTS I, II, III, IV. Units
MUS. 170 JAZZ IMPROVISATION.  Units	MUS. 325, 326, 327, 328 ADVANCED BRASS INSTRUMENTS I, II, III, IV. Units
MUS. 190 FINE ARTS FOR CHILDREN. (Also ART 190) Units (Grade Option)	Prerequisites: Successful completion of jury examination; concurrent enrollment in Band or Orchestra.  Description: Advanced problems of performance. Literature covered and specific requirements may be obtained from the Humanities Division office. This course is a parallel course to the applied music major study at California State Colleges.  MUS. 341, 342, 343, 344 WOODWIND INSTRUMENTS I, II, III, IV.
and form appreciation.  MUS. 202 MUSIC APPRECIATION AND SURVEY.  Units (Grade Option)	Units
required. This course is for non-music majors, as well as music majors.  MUS. 295 CONDUCTING.  Units	Class Hours
MUS. 301, 302, 303, 304 PIANO.  Units (Grade Option) 2 each Class Hours 3 lecture/5 lab hours/week Prerequisites: None Description: A course in applied music with stress on technical and interpretive skills. Individual attention and advancement.	Class Hours

MUS. 365, 366, 367, 368 ADVANCED STRING INSTRUMENTS I, II, III, IV.  Units	MUS. 441, 442, 443, 444 ORCHESTRA I, II, III, IV. Units (Grade Option)
Humanities Division office. This course is a parallel course to the applied music major study at California State Colleges.  MUS. 371 GUITAR I.  Units (Grade Option)	ing semesters.  MUS. 445 CHAMBER ORCHESTRA.  Units (Grade Option)
MUS. 372,373, 374 GUITAR II, III, IV. Units (Grade Option)	ing. May be repeated three times for credit.  MUS. 461, 462, 463, 464 INSTRUMENTAL ENSEMBLE I, II, III, IV. Units
Units	MUS. 471, 472, 473, 474 CHOIR, I, II, III, IV. Units (Grade Option)
Units (Grade Option) 1 each Class Hours	MUS. 481, 482, 483, 484 COLLEGE SINGERS.  Units
III, IV. Units	traditional and "popular" contemporary styles. Performance is required. Field trips may be required.  MUS. 490 MASTER CHORALE.  Units (Grade Option)
MUS. 430 SYMPHONIC BAND.  Units (Grade Option)	three times for credit.  MUS. 491, 492, 493, 494 ORATORIO CHORUS.  Units (Grade Option)
Units (Grade Option)  Class Hours  MUS. 325, 345 or 365 or equivalent demonstrated ability.  Description: Study and performance of standard symphony orchestra literature and techniques. Performance is required. Each semester covers material differing from preceding semester. May be repeated three times for credit.	choral literature. Performance is required.  MUS. 495 MUSICAL THEATRE.  Units

MUS. 496 MUSIC RECITALS. Units (Credit Only) 0.5 Class Hours 1 lecture hour/week Prerequisites: None	OPTH 412 OPHTHALMIC LAB TECHNIQUES II. Units
Description: Open to all students. A listening course to acquaint students with musical literature as performed by professional musicians and advanced students in the area. Music majors are required to complete four semesters. May be repeated three times for credit.	Description: This course combines the theory of lens surfacing with the practice of layout of semi-finished blanks and the edging of finished multi-focal lenses. The concept of prism is emphasized to insure a thorough understanding of the mechanics of lens construction. Field trips may be required.
A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.	OPTH 431 OPHTHALMIC LENSES. Units
NATURAL SCIENCES	hard resin, plus the mathematical computations of lens construc- tion. Properties, specifications, and uses of single vision and multifocal lenses will be introduced. Special lens types, i.e.,
NSCI 100 INTRODUCTION TO NATURAL SCIENCES. Units (Grade Option)	lenticulars, aspherics, absorptive lenses, and myodiscs are described to provide a basis for the following dispensing courses. Field trips may be required.
Prerequisites	OPTH 441 OPHTHALMIC FABRICATION. Units
from both biological and physical sciences. Emphasis is upon recent discoveries which have affected modern living.	Prerequisites: OPTH 411 or 412 Description: This course will expose the student to the greater variety of finishing requirements. Rimless, semi-rimless, tension
OCEANOGRAPHY OCEN 100 OCEANOGRAPHY.	and suspension mountings will be used. Dyeing of plastic lenses and repair of plastic and metal frames will be introduced in preparation for dispensing techniques.
Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None	OPTH 460 ANATOMY AND PHYSIOLOGY OF THE EYE. Units
Description: Chemical and biological history of the oceans. Currents, waves, tides and coastal processes. Origin and evolution of the oceans and ocean basins with emphasis on recent discoveries in continental drift and sea floor spreading.	Prerequisites: None Description: This course deals with anatomy of the eye: a study of vision, its chemistry, media, neurology and musculature. An introduction to pharmacology and related systemic diseases
A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study;	will be covered. This course is a necessary prerequisite to contact lenses.  OPTH 471 OPHTHALMIC DISPENSING TECHNIQUES I.
OFFICE ADMINISTRATION	Units
See INTEGRATED INFORMATION PROCESSING	Description: This course combined with the student's employment is designed to turn the student into a thinking, working
OPHTHALMIC DISPENSING	optician. The first part emphasizes basic dispensing skills and proceeds to deeper theory and its application.
OPTH 400 INTRODUCTION TO OPHTHALMIC OPTICS. Units	OPTH 472 OPHTHALMIC DISPENSING TECHNIQUES II. Units
Description: An introduction to Ophthalmic Dispensing, its history and evolution to include basic spectacle nomenclature, the theory of light, lenses, prisms, and mirrors, the basic anatomy of the eye, and a survey of vision.	Description: The first part of the course concludes advanced theory and techniques, proceeds to specialty subjects and concludes with business and ethical aspects of Opticianry. Semi-formal round table discussions occur. May be repeated once for credit.
OPTH 411 OPHTHALMIC LAB TECHNIQUES I.	OPTH 491 CONTACT LENSES I.
Units	Units
Description: The finishing procedures in producing a pair of spectacles will be covered. The laboratory glazing and bench alignment. Finally, ANSI standards and prismatic problems are introduced. Each student is expected to complete 25 pairs of spectacles for grading. Field trips may be required.	contact lens fitting. Nomenclature, manufacture, tolerances, clinical applications and fitting procedures will be covered in lecture. The lab will provide practical work in the adjusting of contact lenses, keratometry, inspection and an introduction to biomicroscopy. Field trips may be required.

OPTH 492 CONTACT LENSES II. Units	study of the basic law of contracts, including the elements of a contract, factors affecting their validity, construction and interpretation, and termination or rescission.
Prerequisites: OPTH 491 Description: An actual fitting situation will be presented with the opportunity to tie together theory and practice covering hard and soft contact lenses, symptomatology, contact lens pharmacology, and custom lens design. The program operates a simulated clinic and fits hard or gel contact lenses to provide the student with hands-on experience in patient and lens selection, evaluation and in doctor/dispenser communication. May be repeated once for credit.  OPTH 690 RESEARCH PROJECTS. Units 2 Class Hours By arrangement	LEGL 252 TRIAL PREPARATION AND STUDY OF LEGAL ETHICS.  Units (Grade Option)
Prerequisites: Concurrent enrollment in OPTH 471. Description: Independent study research project; required in the 3rd semester. Minimum of 96 hours of independent study.	LEGL 253 PROBATE ADMINISTRATION. Units (Grade Option)
OPTH 710 BASIC CONTACT LENSES.  Units	Prerequisites: LEGL 259 or concurrent. Description: Fundamental principles involved in the legal process of probating an estate, including the basic law of wills, preparation of all pleadings and documents customarily used in the probate of an estate, preparation of state and federal inheritance tax and estate tax returns, methods and procedures and preparation of documents in conservatorships and guardianships.
A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.	LEGL 254 FAMILY LAW. Units (Grade Option)
PALEONTOLOGY PALN 110 ANCIENT LIFE AND PAST ENVIRONMENTS. Units	Description: Legal principles applicable to the formation of the marriage contract, together with principles of law applicable to problems arising from the marital relationship, including property rights, support obligations between husband and wife, custody and support of children, adoption.
Prerequisites:  None  Description: An introductory ecological approach to the changing parade of life and ancient environments through the past 3.5 billion years of Earth history; and collecting, preparing, analyzing and interpreting a fossil marine fauna.	LEGL 255 CORPORATIONS AND BUSINESS ENTITIES.  Units (Grade Option)
A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.	sis on corporations, and procedures for qualifying a foreign corporation in California.  LEGL 256 REAL ESTATE AND LANDLORD—TENANT.
PARALEGAL	Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: LEGL 259 or concurrent.
LEGL 250 LEGAL RESEARCH AND BIBLIOGRAPHY. Units (Grade Option)	Description: Relationships between buyer and seller of real estate and between landlord and tenant, with particular emphasis on the role of the legal assistant in the analysis and solution of legal problems and in the preparation of documents in relation thereto.
legal cases and principles of legal writing; the differences between primary and secondary sources such as title and court records, county and state law libraries, and specialized libraries and outside specialists; organization and management of a law office library and preparation and bibliographies; cite checking, etc.	LEGL 257 BANKRUPTCY AND DEBT COLLECTION.  Units (Grade Option)
LEGL 251 TORTS AND CONTRACTS.  Units (Grade Option)	exemptions.  LEGL 258 ADVANCED TRIAL PREPARATION.  Units (Grade Option)

primarily focusing on discovery matters and other aspects of trial preparation. LEGL 259 INTRODUCTION TO LEGAL SYSTEM. Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites: None
Description: The course will give an entering student a survey of the principles of law. Students will be required to study and resolve typical legal problems associated with the total system of law in the U.S. and California. PHIL 200 INTRODUCTION TO LOGIC. Units (Grade Option) 3 lecture hours/week LEGL 260 ADVANCED LEGAL RESEARCH AND WRITING. Units (Grade Option) ...... 3 Class Hours 3 lecture hours/week
Prerequisites: LEGL 250, 259
Description: The student will undertake legal research and writing projects in a variety of subject areas. be part of the inquiry. A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study. PHILOSOPHY PHIL 100 INTRODUCTION TO PHILOSOPHY. Units (Grade Option) Class Hours ...... 3 lecture hours/week Prerequisites: None
Description: Survey of ideas and issues which traditionally concern philosophic minds. Emphasis on doing philosophy as a means of understanding it. Critical evaluation of such philosophical topics as: Values and ethics, logic, political ideologies, human existence, science and religion, cosmology, and knowledge. PHIL 103 CRITICAL THINKING. Prerequisites:

Description: Course is designed to improve the student's general reasoning skills. Techniques will be introduced to facilitate the recognition of arguments from various types of discourse, to distinguish valid from invalid arguments; sound and unsound arguments; structure of arguments; and informal logical fallacies. Many arguments will be taken from the mass media, including videotapes and newspapers. PHIL 160 HISTORY OF PHILOSOPHY— PHIL 650 SEMINAR IN PHILOSOPHY. and ethical questions. PHIL 175 HISTORY OF PHILOSOPHY - 16TH TO advanced problems in philosophy. 19TH CENTURY. Description: Epistemological, metaphysical, and ethical systems

in Western 16th to 19th Century philosophy. The Rationalists, Empiricists, Kant, and other idealists will be studied.

# PHIL 190 CONTEMPORARY PHILOSOPHY. philosophy and their impact on social, political, economic and religious movements. Topics include: Idealism, Existentialism, Marxism, Maoism, Christian Philosophy, Logical Positivism, Pragmatism, Utilitarianism, and Contemporary Analysis.

# Prerequisites: None Description: Critical study of the conditions of clear statements; procedures and criteria for evaluating arguments; questions of the adequacy and relevance of statements used to support conclusions. Informal fallacies, syllogism and symbolic logic will

# PHIL 240 INTRODUCTION TO ETHICS. Prerequisites: ...... None Description: Theories of the good life and moral obligation and their application to problems of individual and social behavior. Theories include: Epicureanism, Stoicism, and Hedonism; Plato and Aristotle; Augustine; Kant; Utilitarianism; and Relativism.

PHIL 300 INTRODUCTION TO WORLD RELIGIONS.
Units (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites: None
Description: A study of the great religions of the world; their
cultural background, tenets, practices, literature and art, and
their impact on society and culture. Covers the development of
religious ideas, the western religions, and the eastern religions.

PHIL 310 PHILOSOPHY OF RELIGION.
Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites None
Description: Investigation of questions arising in the tradition:
Religious scepticism, nature of God, revelation, miracles, faith, mystical experience; the problem of evil; death and immortality.

PHIL 320 ASIAN PHILOSOPHY.
Units (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites None
Description: Introduction to philosophical development in
China, India, and Japan. Emphasis on philosophical rather than religious evolution. A survey of historical systems combined with contemporary impact.

# Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: Two other courses in Philosophy Description: Designed to provide an opportunity for philosophy majors and others who meet requirements to pursue some more

A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# PHYSICAL EDUCATION

To increase competency within each activity, classes may be repeated a maximum of three times.

# ADAPTIVE/CORRECTIVE

ADAP 350 ADAPTIVE GENERAL CONDITIONING.
Units (Grade Option)
Class Hours 3 lab hours/week
Prerequisite: Verification of limiting condition on file.
Description: Individual exercise programming designed to meet
each student's needs. Stretching exercises, light weights,
stationary bicycles, and a variety of adaptive equipment are
used to promote total fitness.
ADAD AND INFOCUSE TO A SHIPLE FOR THE

ADAP 351 WEIGHT	TRAINING FOR THE
PHYSICALLY LIMIT	ED.
Units (Grade Option)	)
	3 lab hours/week
Prerequisite:	. Verification of limiting condition on file.
	ne Universal gym and other free weights to

# increase overall strength and flexibility. ADAP 352 FITNESS AND MOTOR TRAINING FOR THE DEVELOPMENTALLY DISABLED.

DETECTION OF THE PROPERTY.
Units (Grade Option)
Class Hours
Prerequisite: Verification of developmental disability on file.
Description: A variety of movements, games, and activities
geared toward the development of motor coordination and
improvement of physical fitness.

# ADAP 353 FITNESS FOR THE DISABLED OLDER ADULT.

Units (Grade Option)
Class Hours
Prerequisite: Verification of limiting condition on file.
Description: Instruction in safe stretching exercises designed to
sustain or improve flexibility, circulation, and muscular endur-
ance. Relaxation, proper breathing and posture, and group games and activities are included. This course is designed for
off-campus health care facilities.

ADAP 354 ADAPTIVE AQUATICS.
Units (Grade Option)
Class Hours 3 lab hours/week
Prerequisite: Verification of limiting condition on file.
Description: Allows for physically limited students to participate
in an aquatics environment for both exercise and basic swim
skill instruction.

# **AQUATICS**

AQUA 100 BEGINNING/INTERMEDIATE SWIMMING.	
Units (Grade Option)	1.5
Class Hours	ek
Prerequisites: No	ne
Description: Instruction in water adjustment, treading, floating	ıg,
breathing techniques, crawl, breaststroke, sidestroke, bar	
stroke, and elementary diving; also personal water safe	ety
procedures Class is divided by levels of ability.	-

# **COMBATIVES**

The second second				
	B 401 SELF I			
Units	(Grade Optio	on)	 	1.5
Class	Hours		 3 la	b hours/week
Prerec	quisites:		 	None
	iption: Desig			
				preparation

avoidance of areas conducive to violent action; front and rear grasp releases, and ground tactics will be stressed. Both violent and non-violent techniques will be covered. Activities deal with all releases, striking, hitting, kicking, and knife and gun situations. Emphasis is placed on dealing with confrontations.

A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# DANCE

Units (Grade Option) Class Hours 4 lab hour	rs/week
Prerequisites:  Description: Basic modern dance techniques, ballet tech	hniques
for proper body alignment, balance, flexibility and rh coordination. Emphasis on movement technique and combinations.	simple

# DANC 112 BEGINNING/INTERMEDIATE MODERN DANCE.

Units (Grade Option)
Class Hours 4 lab hours/week
Prerequisites: None
Description: Basic modern dance techniques, ballet techniques
for proper body alignment, balance, flexibility and rhythmic
coordination. Emphasis on movement technique and more advanced combinations and choreography.

# DANC 115 ADVANCED MODERN DANCE.

Units (Grade Option)
Class Hours 4 lab hours/week
Prerequisites: DANC 112 or equivalent.
Description: Synthesis of previous dance experience. Advanced
modern technique, group improvisations and repertory experi-
ence.

# 

Prerequisites:

Description: Designed for the student who has had no dance. It will provide the student with basic movement techniques, isolation of body parts, and an introduction to jazz dance and music.

# DANC 131 BEGINNING JAZZ.

Class Hours	2 lab hours/week
Prerequisites:	None
Description: Element	ry jazz techniques, foot and leg develop
musicians and music	y parts and a rhythmic appreciation of jazz

# DANC 132 BEGINNING/INTERMEDIATE JAZZ.

Units (Grade Option)	2
Class Hours 4 lab hour	s/week
Prerequisites:	. None
Description: Continuation of Beginning Jazz with emph	asis on
additional techniques and more lengthy jazz combination	ns.

# DANC 140 BALLET.

terminology are presented.

Units (Grade Option) 1-1.5
Class Hours 2–3 hours/week
Prerequisites: None
Description: Beginning techniques of classical ballet are studied
and executed. Movement skills, body alignment and placement,
rhythmic structures, qualities of movement, and the classical

DANC 143 INTERMEDIATE BALLET.  Units (Grade Option)
Units (Grade Option)
Class Hours
Units (Grade Option)  Class Hours  Prerequisites:  Description: Warm up, toning exercises, vigorous dance sequences, cool down and stretching are presented to upbeat popmusic. Safely working at one's own pace is emphasized.  DANC 400 DANCE PRODUCTION.  Units (Grade Option)  Class Hours  Prerequisites:  One or two semesters of Modern or Jazz or equivalent. Description: Includes both technique and composition. Student choreography, the elements of production—music, make-up, costumes, lighting and staging are included. A final concert, demonstration or studio rehearsal culminates the semester's work.  A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.  FITNESS  FITN 101 ADULT FITNESS I.  Units (Grade Option)  Class Hours  A or 6 lab hours/week Prerequisites:  None Description: Course is designed to foster understanding and development of physical fitness and its relationships to optimum health. Class will include basic instruction in 90 plus exercises to be used in warm-up and cool-down sessions that are related to the toning of major and minor muscle groups. Basic
Units (Grade Option)  Class Hours  Prerequisites:  Description: Warm up, toning exercises, vigorous dance sequences, cool down and stretching are presented to upbeat popmusic. Safely working at one's own pace is emphasized.  DANC 400 DANCE PRODUCTION.  Units (Grade Option)  Class Hours  Prerequisites:  One or two semesters of Modern or Jazz or equivalent. Description: Includes both technique and composition. Student choreography, the elements of production—music, make-up, costumes, lighting and staging are included. A final concert, demonstration or studio rehearsal culminates the semester's work.  A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.  FITNESS  FITN 101 ADULT FITNESS I.  Units (Grade Option)  Class Hours  A or 6 lab hours/week Prerequisites:  None Description: Course is designed to foster understanding and development of physical fitness and its relationships to optimum health. Class will include basic instruction in 90 plus exercises to be used in warm-up and cool-down sessions that are related to the toning of major and minor muscle groups. Basic
Units (Grade Option)
Description: Includes both technique and composition. Student choreography, the elements of production—music, make-up, costumes, lighting and staging are included. A final concert, demonstration or studio rehearsal culminates the semester's work.  A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.  FITNESS  FITN 101 ADULT FITNESS I.  Units (Grade Option) 2-3  Class Hours 4 or 6 lab hours/week Prerequisites: None Description: Course is designed to foster understanding and development of physical fitness and its relationships to optimum health. Class will include basic instruction in 90 plus exercises to be used in warm-up and cool-down sessions that are related to the toning of major and minor muscle groups. Basic
Description: Includes both technique and composition. Student choreography, the elements of production — music, make-up, costumes, lighting and staging are included. A final concert, demonstration or studio rehearsal culminates the semester's work.  A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.  FITNESS  FITN 101 ADULT FITNESS I.  Units (Grade Option)
FITNESS  FITN 101 ADULT FITNESS I.  Units (Grade Option) 2-3 Class Hours 4 or 6 lab hours/week Prerequisites: None Description: Course is designed to foster understanding and development of physical fitness and its relationships to optimum health. Class will include basic instruction in 90 plus exercises to be used in warm-up and cool-down sessions that are related to the toning of major and minor muscle groups. Basic
FITN 101 ADULT FITNESS I.  Units (Grade Option) 2-3  Class Hours 4 or 6 lab hours/week  Prerequisites: 4 or 6 lab hours/week  Description: Course is designed to foster understanding and development of physical fitness and its relationships to optimum health. Class will include basic instruction in 90 plus exercises to be used in warm-up and cool-down sessions that are related to the toning of major and minor muscle groups. Basic
FITN 101 ADULT FITNESS I.  Units (Grade Option) 2-3  Class Hours 4 or 6 lab hours/week  Prerequisites None  Description: Course is designed to foster understanding and development of physical fitness and its relationships to optimum health. Class will include basic instruction in 90 plus exercises to be used in warm-up and cool-down sessions that are related to the toning of major and minor muscle groups. Basic
Units (Grade Option) 2-3 Class Hours 4 or 6 lab hours/week Prerequisites: None Description: Course is designed to foster understanding and development of physical fitness and its relationships to optimum health. Class will include basic instruction in 90 plus exercises to be used in warm-up and cool-down sessions that are related to the toning of major and minor muscle groups. Basic
pulse, 2) reduction in body fat percentage, 3) Cooper's 12- Minute Field Test. Testing and evaluation will be coordinated with the Cañada Fitness Institute.
FITN 140 EXERCISE APPRECIATION I.
Units (Grade Option) 1.5 Class Hours 3 lab hours/week Prerequisites: None Description: A basic conditioning course. Progressive exercise plans are offered that involve strength, endurance, flexibility, coordination, balance and agility. Tests and evaluation are affiliated with the Cañada Fitness Institute.
FITN 161 WOMEN'S CONDITIONING I.
Units (Grade Option) 1.5-2.5 Class Hours 5 lab hours/week Prerequisites: None Description: Course is designed to foster understanding and development of physical fitness. Appropriate tests are offered to identify needs and ability levels; all programs are presented on

a "progressive" basis. Emphasis is placed on activities related to cardio-respiratory endurance, flexibility, agility and strength. Walking, jogging, rope skipping, basic weight conditioning, interval training, circuit work, and continual rhythmic activities are included.

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FITN 165 WOMEN'S RESISTIVE FITNESS I.  Units (Grade Option)
various pieces of weight conditioning equipment emphasizing correct techniques and safety. Proper lifting form, correct breathing formats will be emphasized. The basic lifts offerred are related to upper shoulder, chest, back, stomach, knees,
calves, ankles and toes. The high intensity approach will be used. Students must fulfill the minimum required lifting standards.

FITN 201 BEGINNING WEIGHT CONDITIONING.	
Units (Grade Option)	
Class Hours 2 or 3 lab hours/week	
Prerequisites: None	
Description: Emphasis on development of all general body	
areas. Both lower and upper body lifts are imparted. Special	
emphasis is placed on proper lifting form, breathing and safety	
procedures. Student measurements taken both at the beginning	
and end. Running is also part of the course format.	

# 

FIIN 315 POWER ACTIVITIES.
Units (Grade Option)
Class Hours 2 lab hours/week
Prerequisites: None
Description: Course is designed to offer experiences in the
development of shoulder girdle, hands, arms, and general upper body. Rope skipping patterns to music are utilized for
cardio-respiratory values. Progressive programs are offered in
vertical rope climbing, peg board work, and iso-kinetic condition-
ing. All requirements are related to the individual's age and ability groupings.

FITN 430 CANADA FITNESS INSTITUTE.
Units (Grade Option)
Cities (Grade Option)
Class Hours 1 lecture hour/week
Prerequisites: None
Description: Lectures cover a myriad of topics related to total
fitness. Physiology of exercise, coronary risk factors, METS,
Ideal exercise programs, Heart rate thresholds, Rest/stress/
distress, nutrition, aerobic vs. anaerobic work. Textbook recom-
mended.

FITN 431 CAÑADA FITNESS INSTITUTE LABORATORY I.
Units (Grade Option)
Class Hours
Prerequisites: None
Description: Course is designed to measure physical fitness standards in three distinct areas-aerobics, anaerobics, and
flexibility. Extensive testing is done in lean body mass/fat,
strength, flexibility, and agility. ECG monitoring is admini-
stered. Working and resting blood pressures are monitored
Levels of fitness ascertained and evaluated by student-teacher
conferences. Students must reach the 50th percentile in the test

battery prior to enrolling in FITN 432. 15 different tests are	INDV 251 BEGINNING TENNIS.
offered.  A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.  INDIVIDUAL SPORTS	Units (Grade Option)  Class Hours  Prerequisites:  Description: Basic fundamentals of tennis. Instruction on forehand and backhand ground strokes, serve and volley. Rules, scoring system, tennis etiquette and basic tactics of singles and doubles. Some competition included toward the end of the semester. Major emphasis on individual improvement.
INDV 121 BEGINNING BADMINTON.  Units (Grade Option)	INDV 252 BEGINNING/INTERMEDIATE TENNIS.  Units (Grade Option)
Units (Grade Option)	INDV 253 INTERMEDIATE TENNIS.  Units (Grade Option)
INDV 161 BEGINNING GOLE Units (Grade Option) 1 Class Hours 2 lab hours/week Prerequisites: None Description: Beginning instruction concerning the techniques, rules, etiquette and philosophy for the beginning golfer. Stance, grip, position, swing and follow-through as associated with selected irons and woods. Most sessions will be held on campus, some activity may be scheduled for local courses and driving ranges.	INDV 254 INTERMEDIATE/ADVANCED TENNIS.  Units (Grade Option)
INDV 164 INTERMEDIATE/ADVANCED GOLE Units (Grade Option)	INDV 255 ADVANCED TENNIS.  Units (Grade Option)
INDV 166 EXPERT GOLF TRAINING.  Units (Grade Option)	INDV 256 EXPERT TENNIS TRAINING.  Units (Grade Option)
INDV 222 RACQUETBALL.  Units	INDV 257 TOURNAMENT TENNIS.  Units (Grade Option)

	INDV 301 BEGINNING GYMNASTICS. Units (Grade Option)	Description: Course offers fundament combined with game situations. Emindividual skills and the associated program will include material on all skrules.  TEAM 102 INTERMEDIATE BASEBA Units (Grade Option)
	INDV 302 INTERMEDIATE GYMNASTICS.  Units (Grade Option)	Class Hours Prerequisites: TEAM 101 or TI  Description: Fundamentals of basebal on game situations, team play and r more advanced than TEAM 101. Gam a pitching machine. Evaluation will in knowledge of game situations.  TEAM 105 ADVANCED BASEBALL. Units (Grade Option)
	A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.	Prerequisites: TEAM 102 or d Description: Course is designed for the with superior skills of play. Fundamenthe advanced player will be offered geared to advanced skill in performant
	THEORY  P.E. 115 INTRODUCTION TO ADAPTIVE PHYSICAL EDUCATION.  Units (Grade Option) 2 Class Hours 2 lecture hours/week Prerequisites: None Description: Designed to provide a working knowledge of numerous disabilities and current adaptive physical education techniques for students interested in pursuing a career in adaptive physical education, physical therapy, special educa- tion, or any other health-related field.  P.E. 116 ASSISTING IN ADAPTIVE PHYSICAL EDUCATION.	TEAM 111 BEGINNING BASKETBA Units (Grade Option) Class Hours Prerequisites: Description: Course provides the funball such as dribbling, passing, and soffense and defense situations are offetwo and three men situations. Playing stressed through written and practesting is emphasized. A round robin stream is emphasized. Class Hours Prerequisites: TEAM is tream in the control of
	Units (Grade Option)	Description: Advanced aspects of team be offered. Emphasis will be placed of medium of round robin schedules and will be conducted through written and rules and skills taught.
	Units (Grade Option)	TEAM 141 BEGINNING SOCCER. Units (Grade Option) Class Hours Prerequisites: Description: Instruction in basic funda
	P.E. 300 TECHNIQUES OF COACHING BASEBALL. Units	play. Skills such as dribbling, trap shooting, and throw-ins will be condrills preparing one for competition. To be taught for a thorough understandibasic skills and game laws will be content to the
	strategy of play and tactics, as well as structural analysis and execution, will be presented.  TEAM SPORTS	Units (Grade Option)
	TEAM 101 BEGINNING BASEBALL. Units (Grade Option) 1.5 Class Hours 3 lab hours/week Prerequisites: None	Description: Instruction in intermedia together with an extension of basic playing soccer. Considerable opportu- play and conditioning. Tests of skills advanced than in TEAM 141.

ntals of baseball, with skills nphasis will be placed on d game rules. A testing kills taught and the playing

# ALL.

EAM 151 or demonstrated competency.

all with a strong emphasis rules. Skills taught will be nes will be played utilizing nclude individual skills and

..... 6 lab hours/week demonstrated competency. ne advanced baseball player entals of baseball related to d. Evaluation devices are nce.

# ALL.

..... 1-1.5 ... 2 to 3 lab hours/week ..... None ndamental skills of basketshooting. Elementary team ered dealing primarily with g rules of the game will be actical examinations. Skill schedule will be provided.

# LL.

... 2 to 3 lab hours/week 111 or demonstrated skill. m offense and defense will on team play through the d tournaments. Evaluation d practical examinations on

..... 1-1.5 ... 2 to 3 lab hours/week ..... None amentals essential for team ipping, passing, heading, imbined with conditioning The laws of the game will ding of team play. Tests of inducted.

# R.

.... 2 to 3 lab hours/week 141 or demonstrated skill. iate aspects of team play skills and knowledge for unity for competitive team and knowledge are more

TEAM 143 ADVANCED SOCCER.  Units (Grade Option)	A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.  INTERCOLLEGIATE SPORTS
TEAM 151 BEGINNING SOFTBALL.  Units (Grade Option) 2.5  Class Hours 4.5 lab hours/week  Prerequisites: None  Description: A course which offers instruction in the basic fundamentals of softball play. Students participate in both round robin and tournament schedules. Beginning skills are taught and play situations expanded. Slow pitch receives the major emphasis, but fast pitch may be offered.  TEAM 152 INTERMEDIATE SOFTBALL.  Units (Grade Option) 2.5  Class Hours 4.5 lab hours/week  Prerequisites: TEAM 151 or demonstrated skill.	VARS 100 VARSITY BASEBALL.  Units
Description: A course which offers intermediate level of softball play. Brief review of TEAM 151 fundamentals is offered. Intermediate aspects of team play will be emphasized through drills, round robin and tournament schedules.  TEAM 153 ADVANCED SOFTBALL.  Units (Grade Option)	Description: A conditioning course specifically related to Varsity Baseball. Area of emphasis will be strength, flexibility and cardiovascular development as they precisely apply to baseball.  VARS 110 VARSITY BASKETBALL  Units
Prerequisites: TEAM 152 or demonstrated skill. Description: This course is designed for students already proficient in softball skills. Opportunities will be provided to play and develop advanced techniques of softball play. Emphasis will be placed on game strategies, rules, and advanced execution in game and tournament play.	Description: Intercollegiate varsity basketball competition in the Golden Gate Conference and participation in regional tournaments.  VARS 111 BASKETBALL CONDITIONING.  Units
TEAM 170 BEGINNING VOLLEYBALL.  Units (Grade Option)	Description: A conditioning course specifically related to Varsity Basketball. Area of emphasis will be strength, flexibility and cardiovascular development as they precisely apply to basketball.  VARS 120 VARSITY CROSS COUNTRY. Units
program in all skills offered will be conducted. Tournament play and a round robin schedule are provided.  TEAM 171 INTERMEDIATE VOLLEYBALL.  Units (Grade Option)	Prerequisites:
Description: Designed for students desiring volleyball team play and individual skills beyond the beginning level. Includes a review of the skills of TEAM 170, as well as the bump, overhand serve, and related footwork. The spike, block and tumble dig are introduced and incorporated in team play. Evaluation of offensive and defensive tactics through round robin and tournament schedules.	Units
TEAM 172 ADVANCED VOLLEYBALL.  Units (Grade Option)	VARS 140 VARSITY GOLF.  Units

VARS 141 GOLF CONDITIONING.
Units
VARS 150 VARSITY SOCCER.
Units
VARS 151 SOCCER CONDITIONING.
Units
VARS 170 VARSITY TENNIS.
Units
VARS 171 TENNIS CONDITIONING.
Units
VARS 320 WOMEN'S VARSITY SOFTBALL.
Units
VARS 321 WOMEN'S SOFTBALL CONDITIONING.
Units
VARS 340 WOMEN'S VARSITY VOLLEYBALL.
Units
VARS 341 WOMEN'S VOLLEYBALL CONDITIONING.
Units

A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# PHYSICAL SCIENCE

PSCI 101	MATTER AND ENERGY.	
Units		3
Class Ho	urs 3 lecture	hours/week
Prerequis	ites:	None
and energ	on: An introduction to some of the basic la gy. The impact of these laws in the daily li s course is for non-science majors.	ws of matter fe of modern
A detailed	description of the following courses may be	found under

A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

880 Other Selected Topics; 895 Other Independent Study.
PHYSICS
PHYS 115 ELEMENTARY ELECTRONICS.  Units
PHYS 120 SPACE, TIME AND RELATIVITY.  Units
PHYS 210, 220 GENERAL PHYSICS LECTURE.  Units
PHYS 210, 220 GENERAL PHYSICS LABORATORY. Units (Grade Option) 1, 1 Class Hours 2 lab hours/week Prerequisites: Concurrent enrollment in PHYS 210 or 220. Description: See Above.
PHYS 250, 260, 270 GENERAL PHYSICS. Units (Grade Option) 4, 4, 4

PHYS 405 RADIATION PHYSICS.	
Units Class Hours	lecture hours/week high school science. ideas about matter, magnetic radiation, ations to the interac- rcuits. Required for
PHYS 481 GEOMETRIC OPTICS.	
Units Class Hours 2 lectur Prerequisites: Description: The nature of light, rectilinear tion, refraction, illumination, and an introd of lenses as necessary for the total concept.	re, 3 lab hours/week MATH 110 propagation, reflec- uction to the theory
A detailed description of the following courses Announcement of Courses, page 51: 670 C 680 Selected Topics; 690 Research Projects; 69: 880 Other Selected Topics; 895 Other Independe	may be found under Cooperative Education; 5 Independent Study; nt Study.
PHYSIOLOGY	
PSIO 256 PRINCIPLES OF PHYSIOLOGY.	
Units Class Hours Class Hours Class Hours Class Hours Obscription: This course will concentrate or isms involved with the functioning of the F will include both cellular and major body This course is not suitable for nursing or phymajors should enroll in PSIO 260.	re, 3 lab hours/week ) with a C or better. In the basic mechan-
PSIO 260 HUMAN PHYSIOLOGY.	
Units Class Hours	from BIOL 110, 130, lementary chemistry nded. (Spring only). ident with the func- an body. This course
A detailed description of the following courses Announcement of Courses, page 51: 670 C 680 Selected Topics; 690 Research Projects; 69 880 Other Selected Topics; 895 Other Independent	Cooperative Education; 15 Independent Study;
PLSC 150 INTRODUCTION TO POLITIC	AL THEORY.
Units (Grade Option) Class Hours Prerequisites: Description: Traditional concepts of politic authority, community, freedom, and obligathey bear on current issues. A comparative contemporary political ideologies, such as a communism, and capitalist and socialist veri	al thought, such as tion, are explored as ve study is made of nationalism, fascism,
PLSC 205 AMERICAN SOCIETY.	
Units (Grade Option) Class Hours Prerequisites: Limited	5 lecture hours/week I to foreign students r recent immigrants.
Description: An orientation to American cultural values and social conditions. Topics national and local politics, education, no current social problems. Examples of, and others different topical areas are studied.	political institutions, s include economics, nass media, family,

these different topical areas are studied, and alternative responses and solutions in their native countries with what they find and study in the U.S., looking for similarities and differences. (Fulfills American Institutions requirement and State and Local Government requirement.)

The Control of the
PLSC 210 AMERICAN POLITICS.
Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites: None
Description: Survey of American politics and government includ-
ing public opinion, voting patterns and elections, pressure
group and political party activity, the functions of the President,
Congress and Supreme Court, constitutional guarantees of
citizen's rights and liberties. (Fulfills American Institutions
requirement.)

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A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# **PSYCHOLOGY**

PSYC 100 GENERAL PSYCHOLOGY.
Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites: None
Description: Introduction to psychology, including principles of
learning, theories of personality, tests and measurements, behav-
ioral disorders, mental health, developmental aspects of indivi-
duals, and social psychology. Experimental design and research
data.

PSYC	108 PS	YCHOLO	OGY I	N PRAC	TICE.	
Units	(Grade	Option)				1-3
Class	Hours		,			. 16-48 lecture
_						hours/semester

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PSYC 201 CHILD DEVELOPMENT. Units (Grade Option)	months and creation of environments needs.
Class Hours	PSYC 278 THE PSYCHOLOGICAL EXP IN THE UNITED STATES. Units (Grade Option) Class Hours Prerequisites: Description: The psychological results of
PSYC 202 ADOLESCENT BEHAVIOR. Units (Grade Option)	dynamics of the Spanish speaking fam (Fulfills Ethnic Studies requirement.)
Description: An exploration of the behaviors, values and complexities of the adolescent years. Designed to be of value to persons seeking to understand the changes that occur in physical, emotional, mental, and social development during adolescence.	PSYC 300 SOCIAL PSYCHOLOGY. Units (Grade Option) Class Hours Prerequisites:
PSYC 210 EARLY CHILDHOOD EDUCATION PRINCIPLES. (Also ECE.210) Units (Grade Option)	Description: Study of interaction amore Focus on self-concept, attitude formatic sonal attraction, aggression, group dy impression formation, and related topi is included as part of this course.
Description: Overview of the nature and goals of Early Childhood Education. Awareness of historical perspective. Exploration of various program models in ECE. Qualifications and training of teachers of young children. Issues in ECE and potential future trends.	PSYC 340 PSYCHOLOGY OF HUMAN Units (Grade Option)
PSYC 211 EARLY CHILDHOOD EDUCATION CURRICULUM. (Also ECE. 211) Units (Grade Option)	sexuality influencing sexual identity ar of relevant sexual research, consideration therapeutic approaches, and the explo- tudes and values.
Prerequisites:  Description: Development of goals and objectives lead to the selection and management of activities for young children. Foster skills in providing quality learning experiences. Appreciation of the value of children's play. Development of appropriate curriculum evaluation methods.	PSYC 370 INTRODUCTION TO COU (Also ADMJ 370) Units (Grade Option) Class Hours Prerequisites: Description: Introduction to various the
PSYC 212 CHILD, FAMILY, AND COMMUNITY. (Also ECE. 212) Units (Grade Option)	general principles on interviewing. Opp ment of skills in establishing rapport, recognizing strengths in individu limitations, and making referrals and relationships.
Description: Nature of varying and interacting factors of socialization. Focus is on middle childhood. Examination of contemporary family life styles and patterns of child rearing. Resources and community agencies available to children and families. Examination of contemporary factors influencing communities.	PSYC 391 PARENTING. Units (Grade Option) Class Hours Prerequisites:
PSYC 221 THE SPECIAL CHILD. Units (Grade Option)	Description: Survey of the stages of positive parenting structures (single working parent, etc.). Emphasis on ad and guideline for meeting the needs of elective in the Early Childhood Education
orthopedically handicapped, visually handicapped, emotionally disturbed, deaf/blind, and the gifted. Current approaches concerning educational and community programs.	PSYC 480 PARAPSYCHOLOGY. Units (Grade Option) Class Hours
PSYC 223 INFANT BEHAVIOR.  Units (Grade Option)	Prerequisites:  Description: Introduction to the studest wire psychic phenomena. An interdisciplin tools of not only psychology but a physics, and philosophy to explain rat the hitherto unexplainable. Special emptysics.
early childhood education, parent education and infant educa- tion. Emphasis on developmental abilities within the early	The history of psychic phenomena as ments in laboratory and field research.

s that respond to infant

# PERIENCE OF LA RAZA

... 3 lecture hours/week ..... None of being a Spanish speak-Emphasis on the psychonily in the United States.

... 3 lecture hours/week PSYC 100 or SOCI 100. ong persons and groups. ion and change, interperynamics and leadership, pics. Experiential learning

# N SEXUALITY.

28 lecture hours/semester ..... None ological aspects of human ind behavior. Knowledge on of sexual malfunction, loration of personal atti-

# UNSELING.

... 3 lecture hours/week ..... None neories of counseling and portunity for the developsetting counseling goals, uals, recognizing selfd terminating counseling

... 3 lecture hours/week of parenting. Guides for le parent, step parent, djustment to parenthood f children. Recommended tion Program.

... 3 lecture hours/week ..... None udy of parapsychology, ith the various areas of nary approach using the also biology, chemistry, ationally and scientifically phasis on current trends. well as present developA detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# RADIOLOGIC TECHNOLOGY

TECH	T 400 ORIENTATION TO RADIOLOGIC HNOLOGY.
Class Prere	Hours 2 lecture hours/week equisites: Acceptance in the Radiologic Technology Program.
Desci hosp socia	ription: Orientation to Radiologic Technology including ital organization, medical ethics, economics, political and I influences on radiologic technology.
	T 410 RADIOGRAPHIC POSITIONING.
Class	Hours 3 lecture/3 lab hours/week equisites: Acceptance in the Radiologic Technology Program.
purp logic demo	ription: Positioning of the human body for radiographic oses. Includes all routine examinations, discussion of pathoconditions encountered on radiographs. Laboratories offer onstration and student practice on actual radiographic pment.
RAD	T 418 CLINICAL EDUCATION I.
	s (Credit/No Credit)
Desc educ pract in po RAD	equisites:
Class	s Hours (8 weeks) 4 hours/week
	equisites:
X-ray	ription: Application of radiation physics to the exposure of y film; technique formulation including the use of photors as well as manual techniques. Geometric factors and ographic accessories will be demonstrated.
RAL	OT 428 CLINICAL EDUCATION II.
Clas	s (Credit/No Credit)
Prer Desco	s Hours: 30 hours/week clinical education in affiliated hospitals (total 10 weeks Summer Intersession)
Premodes Pre	hospitals (total 10 weeks Summer Intersession) equisites: Completion of RADT 418, concurrent enrollment in RADT 420. cription: Clinical education continues with the addition of tice in use of radiographic technique. One hour film critique

RADT 438 CLINICAL EDUCATION III. Units (Credit/No Credit)
Prerequisites: Completion of RADT 428 and concurrent enrollment in RADT 430.
Description: Clinical education for Radiologic Technology students. Practical experience continues to build students' expertise in performance of radiographic procedures. Emphasis is on total integration of positioning, protection and technique formulation. One hour film critique each week.
RADT 440 ADVANCED TECHNIQUES.
Units
with grades of C or better.  Description: Application of basic technical and positioning knowledge to special procedures and care of the patient undergoing such procedures. Appropriate pathology encountered in special procedures is discussed.
RADT 448 CLINICAL EDUCATION IV. Units (Credit/No Credit) 9 Class Hours: 30 hours/week clinical education
in affiliated hospitals (total 18 weeks).  Prerequisites:
principles with emphasis on special procedures. Students will be required to have limited experience on weekends and/or evening shifts to gain confidence and proficiency. One hour film critique each week.
RADT 458 CLINICAL EDUCATION V. Units (Credit/No Credit)
Prerequisites:
RADT 495 NURSING FOR RADIOGRAPHERS.
Units
procedures for the radiographer. Patient care, ethics and nursing procedures applicable in radiographic examinations.
A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
REAL ESTATE
R.E. 100 REAL ESTATE PRINCIPLES. Units (Grade Option)
Description: Legal basis of real estate transactions — Contracts, agency and property; real estate transactions — listing and purchase contracts, real estate financing, deeds, liens and encumbrances, escrows and title insurance; land descriptions; real estate mathematics; business opportunities. Assists toward basic license preparation.
Construction For Frontier Co.

R.E. 110 REAL ESTATE PRACTICE.  Units (Grade Option)	A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.  SECRETARIAL/CLERICAL/WORD PROCESSING
R.E. 141 REAL ESTATE APPRAISAL.  Units (Grade Option)	See INTEGRATED INFORMATION PROCESSING  SOCIAL SCIENCE  SOSC 100 SURVEY OF THE SOCIAL SCIENCES. Units (Grade Option)
and treats the three approaches to value. Further, it examines the basic elements and influencing forces on value, the appraisal process including the collection and evaluation of data, and writing the appraisal report.	Description: Survey of all the social sciences and how they are used in understanding current American social and political issues. Course is organized around the theme of computerization and technology.
RUSSIAN RUSS 110 ELEMENTARY RUSSIAN. Units	SOSC 122 SOCIAL SCIENCE RESEARCH METHODS. Units (Grade Option)
Class Hours	Description: Basic course in social science research intended for students interested in pursuing work in the social sciences, such as experimental psychology, sociology, anthropology or economics; understanding of experimental design and analysis of data through the development of research projects activities. Handson computer experience.
RUSS 111 ELEMENTARY RUSSIAN I. Units	SOSC 200 INTRODUCTION TO COMMUNICATION SKILLS.  Units (Grade Option)
RUSS 112 ELEMENTARY RUSSIAN II.  Units	SOSC 250 MEXICAN-AMERICAN CULTURE. Units (Grade Option)
RUSS 801 CONVERSATIONAL RUSSIAN I.  Units (Grade Option)	SOSC 260 AFRO-AMERICAN CULTURE.  Units (Grade Option)
RUSS 802 CONVERSATIONAL RUSSIAN II.  Units (Grade Option) 2 Class Hours 3 lecture hours/week Prerequisites: None Description: Further drill in the patterns and idioms of daily speech, with support by further work in basic grammar. (This course will currently not satisfy language requirements at transfer institutions.)	SOSC 392 FAMILY LIFE CYCLE.  Units (Grade Option)

SOSC 801 CURRENT AFFAIRS. Units (Grade Option)	health care, corporate power, and work. Emphasis on social science research and theory.
Class Hours 8 hours per each 0.5 unit Prerequisites: None	SOCI 120 INTRODUCTION TO GERONTOLOGY.
Description: A study of current domestic and international	Units (Grade Option)
issues. List of topics varies from semester to semester. Political,	Prerequisites: None
social, and cultural events are analyzed to give perspective and understanding to them. This course is not designed for transfer	Description: Introduction to the field of gerontology. Establishes
and may not be accepted by four-year institutions. (May be	perspectives on aging in our society, and examines the elderly as a population group with emphasis on physical, psychological
repeated up to a total of 12 units.)	and sociological aspects of the aging process and the effect on
SOSC 802 WORLD FORUM SERIES.	service to the elderly.
Units	SOCI 126 JUVENILE DELINQUENCY. (Also ADMJ 126)
Prerequisites: None	Units (Grade Option)
Description: Introduces the student to selected topics throughout the world. The culture of selected countries is studied in	Prerequisites: None
the framework of race, language, religion, political boundaries,	Description: Survey course examining various aspects of juve-
population distribution and growth, along with historical influ-	nile crime. Review and analysis of various explanations of delinquent behavior; survey and critique of the juvenile justice
ences, and political/economic problems. This course is not designed for transfer and may not be accepted by four-year	system; examination of selected agencies such as police, proba-
institutions. (May be repeated up to a total of 12 units.)	tion departments, juvenile courts, juvenile halls, state institu- tions, and private youth-service agencies.
A detailed description of the following courses may be found under	SOCI 141 MINORITIES IN AMERICAN SOCIETY.
Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study;	Units (Grade Option) 3
880 Other Selected Topics; 895 Other Independent Study.	Class Hours 3 lecture hours/week
	Prerequisites: None Description: Explores the history and contemporary experience
SOCIOLOGY	of non-white people in the United States. Institutional racism,
SOCI 100 INTRODUCTION TO SOCIOLOGY.	racial conflict, the role and the influence of regulation on social institutions. (Fulfills Ethnic Studies requirement.)
Units (Grade Option)	SOCI 350 INTRODUCTION TO CORRECTIONS.
Class Hours 3 lecture hours/week Prerequisites: None	(Also ADMJ 350)
Description: Course centers on identification and analysis of	Units (Grade Option) 3
basic social structures and forces that motivate and direct social behavior. Additional topics include an introduction to the	Class Hours 3 lecture hours/week Prerequisites: None
method of sociology, a survey and analysis of America's social	Description: Philosophy and history of correctional services.
institutions; and the impact of political, economic, and social	Survey of correctional institutions, probation concepts, parole
conditions.	operations, and community corrections. Correctional employee responsibilities, rehabilitation goals as they affect individual and
SOCI 101 SURVEY OF THE CRIMINAL JUSTICE SYSTEM IN	inmate groups in both confined and field settings. Societal
AMERICAN SOCIETY. (Also ADMJ 101) Units (Grade Option)	response to corrections, the effectiveness of corrections, and its impact on the society at large.
Class Flours	SOCI 360 INTRODUCTION TO CRIMINOLOGY.
Prerequisites: None Description: History and philosophy of criminal justice in	(Also ADMJ 360)
America, identification of the justice system's component parts	Units (Grade Option)
and their interrelationships, and the effect of social change on the criminal justice system. An in-depth study of the functions	Class Hours 3 lecture hours/week Prerequisites: None
and responsibilities of each sub-system of criminal justice	Description: The study of deviant behavior as it relates to the
(police, courts, corrections), and a study of the legal standards, social responsibilities, and ethics of each subsystem which guide	definition of crime; crime statistics; theories of crime causation;
the process of serving justice.	crime typologies. Introduction to the impact of crime, limits of the criminal law, juvenile delinquency, and society's reaction to
SOCI 104 CONCEPTS OF CRIMINAL LAW. (Also ADMJ 104)	criminal behavior.
Units (Grade Option)	A detailed description of the following courses may be found under
Prerequisites: None	Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study;
Prerequisites: None Description: Historical development, philosophy of law and	880 Other Selected Topics; 895 Other Independent Study.
constitutional provisions; definitions, classification of crime, and their application to the system of administration of justice; legal	CDANWOVA
research, study of case law, methodology, and concepts of law	SPANISH
as a social force.	SPAN 110 ELEMENTARY SPANISH
SOCI 105 SOCIAL PROBLEMS. Units (Grade Option)	Units
Class Hours 3 lecture hours/week	Prerequisites: None
Prerequisites:	Description: Spanish structures and active vocabulary based on oral and written pattern drills. Conversation based on short
relation to changes going on in society. Includes poverty, aging,	readings containing only structures already practiced. Students

are urged to make extensive use of the listening facilities in the language laboratory.	SPAN 162 READINGS IN SPANISH LIT. II. Units
SPAN 111 ELEMENTARY SPANISH I.  Units	Prerequisites: SPAN 161 Description: Further study and practice in oral and written composition, class reading of works of Spanish and Spanish-American literature, collateral reading of varied types of Spanish and Spanish-American literature, and review of grammar.
SPAN 112 ELEMENTARY SPANISH II.  Units	SPAN 196 SPANISH LANGUAGE LABORATORY.  Units (Credit Only)
SPAN 120 ADVANCED ELEMENTARY SPANISH.  Units	SPAN 801 CONVERSATIONAL SPANISH I.  Units (Grade Option)
Units	SPAN 802 CONVERSATIONAL SPANISH II.  Units (Grade Option) 2  Class Hours 3 lecture hours/week Prerequisites: SPAN 801  Description: Further drill in the patterns and idioms of daily speech is supported with sufficient grammar to give flexibility in the spoken language. (This course will not fulfill language
SPAN 122 ADVANCED ELEMENTARY SPANISH II.  Units	SPAN 803 CONVERSATIONAL SPANISH III. Units (Grade Option)
SPAN 130 INTERMEDIATE SPANISH.  Units	Description: More advanced drill in the patterns and idioms of daily speech is supported with sufficient grammar to give flexibility in the spoken language. (This course will not fulfill language requirement at California State Colleges or at the University of California.)  SPAN 804 CONVERSATIONAL SPANISH IV. Units (Grade Option)
literature. Students are urged to make extensive use of the facilities in the language laboratory.  SPAN 140 ADVANCED INTERMEDIATE SPANISH. Units	Class Hours 3 lecture hours/week Prerequisites: SPAN 803 Description: Further advanced drill in the formulas and idioms of daily speech is supported with sufficient grammar to give flexibility in the spoken language. (This course will not fulfill language requirement at California State Colleges or at the University of California.)
based on class reading of works of modern Spanish and Latin-American authors; review of grammar; collateral reading of Spanish and Spanish-American literature. This course is intended for English speaking students and not bilingual students.	A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
SPAN 161 READINGS IN SPANISH LIT. I.	SPEECH COMMUNICATION
Units	SPCH 100 FUNDAMENTALS OF SPEECH COMMUNICATION. Units
collateral reading of varied types of Spanish and Spanish-American literature, and review of grammar.	Prerequisites: Eligibility for enrollment in ENGL 100; SPCH 811 or 812 for non-native speakers of English.

Description: This class is designed to introduce students to the form, function, history, and ethical requirements of public address. Students will study, prepare, and deliver speeches in the traditional forms. Speeches will be delivered in both impromptu (spontaneous) and extemporaneous (prepared) modes. SPCH 111, 112 ORAL INTERPRETATION I, II. Units ...... 3 each Class Hours ...... 3 lecture hours/week Prerequisites: ..... Eligibility for enrollment in ENGL 100; SPCH 811 or 812 for non-native speakers of English. Description: Reading aloud from the printed page. Students will be instructed in the techniques necessary for effective oral reading, and will be encouraged to develop greater appreciation for literature, and for the considerable pleasure to be gotten from being read to by others and from reading to others in turn. SPCH 120 INTERPERSONAL COMMUNICATION. Units ..... Class Hours ...... 3 lecture hours/week Prerequisites: ..... SPCH 811 or 812 for non-native speakers of English. Description: This course will consist of a serious examination of all the means by which we communicate during private discourse. Of special concern will be the study of the many rituals that govern our personal and private dialogue, as well as the many related elements of interpersonal exchange, including non-verbal factors, listening, advocacy, perception, and interpretation of communication symbols and events. This is not a course in public address. SPCH 127 ADVANCED PUBLIC SPEAKING. Units ...... 3 Class Hours ...... 3 lecture hours/week Prerequisites: ..... SPCH 100 or equivalent. Description: More sophisticated than SPCH 100, this course continues the examination of the various forms of public address, with an emphasis on the study of persuasion and attitude change as affected by public address. The class will examine the forms, structure, effect, and ethical requirements of social, mercantile, political attempts at persuasion, past and current. SPCH 130 VOICE AND ARTICULATION. Units ...... 3 Description: This course will consist of a study of the communication of ideas, emotions, and values through the use of the vocal mechanism. Included will be lessons in vocal variety, expressiveness, resonance, articulation, and pronunciation. Designed for all students who feel the need to improve their ability to speak clearly and well. This class is likely to be especially helpful to those who intend to teach and for those who plan to enter the fields of speech, drama, radio-television, law, political science, and business.

SPCH 140 GROUP DISCUSSION.

SPCH 811, 812 SPEECH FOR NON-NATIVE SPEAKERS I, II.  Units
A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
TOURISM
TOUR 100 TRAVEL INDUSTRY REFERENCE MATERIALS. Units (Grade Option)

# Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Travel industry reference materials and career skills necessary for employment. Course includes how to read and use reference materials to prepare itineraries including hotels, airlines, steamships, local tour operations and wholesale package tours, and itinerary planning. Recommended: Take Tourism 100 and Tourism 721 concurrently. TOUR 101 SELLING TRAVEL. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: TOUR 100 or concurrent enrollment

Description: This course will teach tourism students the sales techniques used in the travel industry in selling individual and group travel, basic marketing skills for retail agents; the sales promotion; public relations; and advertising methods used to attract various market segments. The course will include a salesmanship workshop; selling and packaging special interest groups; and advertising and sales promotion.

	RAVEL DESTINATIONS/EUROPE.	
Units (Grade	Option)	3
Class Hours	3 lecture hours/we	ek
Prerequisites:	TOUR 100 or concurre	nt
	enrollment in TOUR 10	JU.

Description: European cultural and physical geography as it relates to travel. Covers tourist attractions and facilities, reference materials and tariffs, surface travel and air routings. This course will include the British Isles and Ireland, Scandinavia, Central European countries, Eastern Europe and the Middle East.

	RAVEL DESTINATIONS/WORLD.
Units (Grade	Option) 3
Class Hours	3 lecture hours/week
Prerequisites:	TOUR 100 or concurrent
	enrollment in TOUR 100.

Description: World cultural and physical geography (excluding Europe and Mid-East) as it relates to travel. Covers tourist attractions and facilities, reference materials and tariffs, surface travel and air routings. This course will cover North, Central, and South America, Africa, the Orient, the South Pacific, India, and the East Asian Sub-continent.

TOUR 200 INTRODUCTION TO HOSPITALITY AND
TOURISM INDUSTRY.
Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites: None
Description: An introduction to the broad fields of tourism,
travel, and hospitality. Among the topics covered are growth

	*
and development of hospitality and travel industries, components and suppliers in the travel-hospitality fields, destination development, social and economic impacts of tourism. (This course is the introductory course for the A.S. Degree/Transfer Program in Tourism.)  TOUR 710 TOURISM SUPPORT STAFF PROCEDURES. Units (Grade Option) 3 lecture hours/week Prerequisites: TOUR 100 and 721. Description: Application of learned theories; use of reference materials in itinerary preparation; sales techniques and training in reservations procedures in a travel agency, including credit sales procedures, insurance forms, M.C.O.'s, and other ATC forms, and other ATC sales reporting. TOUR 711, Airline Computer Training, may be taken concurrently with this course. Both should be taken immediately prior to the student going to work.  TOUR 711 AIRLINE COMPUTER TRAINING. Units (Credit/No Credit) 1	TOUR 731 WHOLESALE TOUR OPERATIONS.  Units (Grade Option) 3 lecture hours/week Prerequisites: TOUR 100 Description: This course is an introduction to the technical aspects of wholesale tour operation and the office procedures involved. Pricing and planning will be covered with some preliminary look at marketing.  TOUR 732 WHOLESALE TOUR OPERATIONS—ADVANCED.  Units (Grade Option) 3 lecture hours/week Prerequisites: TOUR 100 Description: Special airfares used with package tours; operating as a local tour operator; working with allotments; advertising and sales promotion; researching new tours; writing brochures that sell; negotiating for over-ride commissions; filing for IT numbers.
Class Hours  Prerequisites:  TOUR 100, 721, and 710. (May be taken concurrently with TOUR 710).  Description: Lab course providing "hands-on" training on a computer terminal used by airlines and travel agencies in making passenger reservations. It includes all computer applications used in planning, confirming, and pricing airline itineraries and requested related travel services. May be repeated once for credit.	TOUR 750 ICTA: TRAVEL AGENCY BUSINESS MANAGEMENT. Units (Grade Option)
TOUR 715 EI.T. PLANNING AND COSTING.  Units (Grade Option) 3  Class Hours 3 lecture hours/week Prerequisites: TOUR 100, TOUR 710.  Description: International itinerary preparation (FI.T.) world- wide and those reference materials used in planning and costing, including cruises, freighters, ferries, and passenger steamship travel, international rail, plus EI.T. house procedures and group costings.	agencies. Content includes methods for improving the productivity, accuracy, and efficiency of travel agency personnel.  TOUR 751 ICTA: MANAGING SALES PERSONNEL.  Units (Grade Option)
TOUR 721 DOMESTIC AIR TARIFF AND TICKETING.  Units (Grade Option) 3  Class Hours 3 lecture hours/week Prerequisites: TOUR 100 or concurrent enrollment in TOUR 100.  Description: A beginner's course in domestic airline fare computation and ticketing procedures. Covers use of reference materials used by travel agencies and airlines in 'developing domestic flight itineraries, and in pricing and ticketing them. (This course should be taken concurrently with TOUR 100.)	TOUR 752 ICTA: MARKETING AND SALES MANAGEMENT. Units (Grade Option)
TOUR 722 ADVANCED DOMESTIC AIR TARIFF AND TICKETING. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: TOUR 721 Description: Offers advanced training in domestic airline fares, rules, regulations and procedures. Emphasis is on proper usage of reference materials. Includes fares to Alaska and Canada, and other more complicated fare constructions.	TOUR 753 ICTA: INTERNATIONAL TRAVEL AND TOURISM.  Units (Grade Option) 3  Class Hours 3 lecture hours/week Prerequisites: TOUR 100, 710, 715, 721, 725  Description: Concentrates on geographic, social and cultural factors of international tourism and the part played by the retail travel agent in the development of tourism.
TOUR 725 INTERNATIONAL AIR TARIFF AND TICKETING. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: TOUR 721; TOUR 722. Description: A course in international geography, international OAG, international Air Tariff rules, fare construction principles, the mileage system, higher intermediate points, one-way and	A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

the mileage system, higher intermediate points, one-way and circle-trip minimum fares and currency regulations. (This course is an enrichment of the Preliminary IATA Diploma material.) May be repeated once for credit.

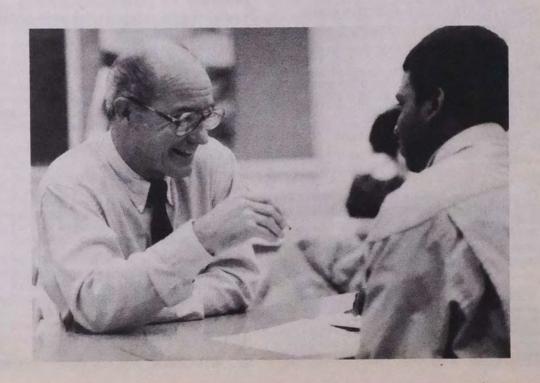
# WORD PROCESSING

See INTEGRATED INFORMATION PROCESSING

# **ZOOLOGY**

NERAL ZOOLOGY.
5
all only) 3 lecture,
2 3-hour labs/week
High school Biology with grade B or better, or BIOL 110 or 130 with grade of C or better.
udy of invertebrate and vertebrate animals, their unctions, adaptations, evolution and natural

A detailed description of the following courses may be found under Announcement of Courses, page 51: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.



# OTHER EDUCATIONAL OPPORTUNITIES AT SAN MATEO COUNTY COMMUNITY COLLEGES 105

Cañada College is part of the San Mateo County Community Community College District, which also operates College of San Mateo and Skyline College in San Bruno. In addition to offering comprehensive general education, vocational, transfer and remedial programs, College of San Mateo and Skyline College offer a number of special programs. Following is a list of those special programs which are not available at Cañada College:

# **COLLEGE OF SAN MATEO**

# **Programs**

Aeronautics

Apprenticeship

Electrical

Fire-Medic

Lithographer

Plumber

Sheet Metal

Sprinkler Fitter

Banking and Finance

Broadcast Arts

**Building Inspection** 

Consumer Arts & Science

Cosmetology

Dental Assisting

Drafting Technology

Electronics Technology

Fashion Merchandising

Filmmaking

Floristry

Fire Science

Horticulture

Humanities

Machine Tool Technology

Manufacturing & Industrial

Technology

Medical Assisting

Nursing

Real Estate

Sign Language

Technical Arts & Graphics

Transportation

Welding Technology

# **Athletics**

Men's Cross Country

Men's Football

Men's Track & Field

Women's Cross Country

Women's Basketball

Women's Softball

Women's Tennis

Women's Track & Field

# **COLLEGE OF SAN MATEO**

1700 West Hillsdale Blvd.

San Mateo, CA 94402

(415) 574-6161

# SKYLINE COLLEGE

# **Programs**

Automotive Mechanic Technology

Automotive Apprenticeship Program

Cosmetology

Emergency Medical Technology — I

Fashion Merchandising

General Studies

Hotel/Motel Management

National Executive Housekeeper

Certificate

Recreation Education

Sign Language

Tagalog

Telecommunications Technology

# Athletics

Men's Cross Country

Men's Track & Field

Men's Wrestling

Women's Cross Country

Women's Softball

Women's Track & Field

Women's Volleyball

# SKYLINE COLLEGE

3300 College Drive

San Bruno, CA 94066

(415) 355-7000 (day)

(415) 355-6580 (evening)

# FACULTY 1986 — 1987

(Date of appointment to San Mateo County Community College District follows name.)

Aarons, Bernard L. (1960)
Geology, Oceanography,
Paleontology
B.S., Pennsylvania State College
M.S., University of California,
Berkeley

Anderson, Richard W. (1970)
Physical Education,
Computer Science
B.A., San Jose State University
M.A., Stanford University

Andrew, Alan (1968)
Physics
B.S., University of Nebraska
M.S., Ph.D., California Institute
of Technology

Ashley, Lyman C. (1968) Physical Education B.S., M.A., California State Polytechnic College

Batch, Robert W. (1965) Chemistry B.S., Tufts University M.S., Northeastern University

Berdon, Jean D. (1969) Mathematics B.S., Tufts University M.S., University of Connecticut

Blanton, Donald J. (1964) Biology, Botany B.A., Aquinas College M.S., University of Michigan

Bond, Alice L. (1984)
Management & Training
Institute—Coordinator
B.A., M.A., San Francisco
State University

Bowling, Clayton E. (1976)
Basic & Applied Sciences
Division Director
B.A., M.A., Stanford University

Branstrom, Marvin J. (1970) Anatomy, Physiology B.A., M.A., San Jose State University Ph.D., Pacific Graduate School of Psychology

Bratton, Glory (1982) Learning Disabilities B.A., San Francisco State University M.A., University of Santa Clara Chan, Florence M. (1968)
Coordinator, Library Services
B.A., University of British Columbia
M.L.S., University of California,
Berkeley
M.A., San Jose State
University

Claire, S. Richard (1976)
Business
A.A., College of San Mateo
B.A., San Francisco State
University
M.B.A., University of Santa Clara

Cory, Genevieve H. (1968) Interior Design B.S., University of Nevada M.A., Ph.D., University of California, Berkeley

Crockett, R. Kent (1965) Speech, English B.A., M.A., San Jose State University

Cunningham, Lois (1971) Social Science, Sociology B.A., Briar Cliff College M.A., St. Louis University

Curtis, Robert M. (1967) Drama, English B.A., M.A., San Francisco State University

Del Gaudio, Joan B. (1965) Counselor, International Students B.S., Cen. Connecticut State College M.Ed., Boston University

Drever, Jerard D. (1968)
Physical Education
A.A., College of San Mateo
A.B., San Jose State University
M.A., San Francisco State
University

Eakin, J. David (1968) Spanish, French A.B., M.A., University of Oregon

Earnhardt, Eldon D. (1969) Anthropology — Archeology B.A., M.A., San Francisco State University

Easter, Stanley E. (1969)
Music, Counselor
B.M., Performer's Certificate
University of Rochester
Eastman School of Music
M.M.Ed., University of Oklahoma
Ed.D., Columbia University

Egan, Philip E (1971) Art B.A., Indiana University B.E.A., Kansas City Art Institute M.E.A., Pennsylvania State University Elkins, Floyd E. (1969)
Business/Social Sciences
Division Director
B.A., San Francisco State
University
M.A., San Francisco State
University
Ed.D., University of Southern
California

Eyer, Dianne M. (1970)
E.C.E., Psychology,
Special Education,
Home Economics, Counselor
B.S., M.S., Purdue University
M.A., San Francisco State
University

Festa, Angelo R. (1966) Physical Education B.S., Michigan State University M.S., Southern Illinois University

Forsythe, John C., Jr. (1957) Biology, Counselor A.A., College of San Mateo A.B., M.A., Stanford University

Friesen, John B, Jr. (1963) Humanities Division Director A.B., M.A., University of California, Berkeley

Gavazza, Steven D. (1981)
Computer Science, Mathematics,
Engineering
B.S., Stanford University
M.A., University of California,
Berkeley
Ph.D., Stanford University

George, Rosemary (1974) Library B.A., San Francisco State University M.L.S., San Jose State University

Giuntoli, Mervin A. (1966) Biology, Zoology B.A., M.A., San Jose State University

Glessing, Robert J. (1968) Journalism, English B.A., Marquette University M.A., University of California, Berkeley

Gordon, Phillip\* (1985)
Information Management,
Office Automation
B.S., Rutgers University
M.S., Rutgers University
Ph.C., University of California,
Berkeley

Gray, Ella Turner (1969)
Director, Special Programs
& Services
B.S., Southern University,
Louisiana
M.S., University of Nebraska

Greenalch, John H. (1977) Vice President B.A., St. Mary's University S.T.B., St. Mary's University S.T.L., St. Mary's University M.Ed., Duquesne University

Griffin, Irene F. (1964) Drama A.B., Barnard College A.M., Stanford University

Guerrero, Jesse (1976) Registrar B.A., M.A., San Jose State University

Gunderson, Peter K. (1973) Geography, Tourism B.S., Michigan State University M.A., Wayne State University

Hairston (Heringer), H. Grace (1969) Business B.A., South Carolina State College M.A., San Jose State University Ed.D., Nova University

Harrington, Joyce M. (1969)
Coordinator, Student Health
Services
R.N., Providence School of
Nursing
B.S.N.E., Seattle University
M.S., University of
California, San Francisco

Harris, Donald C. (1969) English, Spanish B.A., Howard University M.A., San Francisco State University

Henry, Amy (1968) English A.B., Southern University M.A., North Carolina College

Hergert, Loretta J. (1969)
Director of Instructional
Resources
B.S., M.S., University of Colorado
Ph.D., University of Utah

Hetrick, Jane A. (1980)
Program Specialist
for the Handicapped
B.A., University of California,
Los Angeles
M.A., University of Santa Clara

Hinojosa, Aida (1975) English A.A., Metropolitan J.C. B.A., University of Missouri M.A., University of Missouri Hoffman, Craig R. (1965)
English
B.A., University of California,
Berkeley
M.A., San Francisco State
University

Holle, Fredric A. (1968) Art B.A., M.A., San Diego State University

Hurley, Gale E. (1968)
Business
A.B., San Jose State University
M.A., San Francisco
State University

Ienni, Philip C. (1969) Music B.S., M.S., Juillard School of Music

Jeppson, Joseph (1963) History, Law B.S., LL.B., J.D., University of Utah A.M., Stanford University Ph.D., University of California, Berkeley

Katz, Marlene (1964) Business B.S., M.S., Western Illinois University Ph.D., Golden Gate University

Kenney, William C. (1968) English, Film A.A., College of San Mateo A.B., Stanford University M.A., San Jose State University

Keys, Elijah James (1969) Speech, English, Counselor B.S., University of Minnesota M.A., San Francisco State University

Kilpack, Bennett B. (1969)
Sociology, Psychology,
Psychological Services
A.A., College of San Mateo
B.S., M.S., Southern Oregon
College
Ph.D., Columbia Pacific University

Kirwin, Albert (1975) Office Related Skills

Le Bow, Diane (1968)
English
A.B., Douglas College (Rutgers)
M.A., University of California,
Berkeley

Lewis, Eileen L. (1974) Chemistry, Physics B.S., M.S., Texas A & M University

Loughry, Alice P. (1970) Home Economics B.S., University of Maryland M.S., New York State College, Cornell University MacDonald, James R. (1984) Electronics B.S., University of California, Davis

Marchi, Joseph J. (1968) Counseling B.A., San Francisco State University M.A., Columbia University Teachers College

McCarthy, Barbara (1981) Adaptive Physical Education B.A., M.A., San Francisco State University

McGill, Sally J. (1971) Nutrition, Foods & Dietetics B.S., University of Oklahoma M.P.H., University of California, Berkeley

McNamara, Cheryl J. (1968) Physical Education B.A., San Jose State University M.A., San Francisco State University

Meek, Austen B., Jr. (1968) Mathematics B.A., San Jose State University M.A., Bowdoin College

Mendoza, Salvador (1984) Counseling, Coordinator, English Institute B.A., San Diego State University M.A., Boston University M.A., Middlebury College

Messner, Gerald M. (1964)
English
A.B., Stanford University
M.A., California State University,
Los Angeles

Miller, Lewis D. (1971)
Computer Science, Engineering,
Mathematics, Physics
A.B., University of California,
Berkeley
M.A., San Jose State
University
Ph.D., Stanford University

Moore, Nancy H. (1973) Radiologic Technology B.A., M.S., San Francisco State University

Nicolopulos, Samuel J. (1968) Physical Education A.A., College of San Mateo B.A., San Jose State University A.M., Stanford University Norman, Timothy H. (1968) Mathematics B.A., Illinois Benedictine College M.S., University of Notre Dame

O'Niel, Philip J. (1986) Tourism

Owyang, Walter M. (1970)
Psychology
A.B., University of California,
Berkeley
M.A., San Jose State University
Ph.D., University of Nebraska

Padron, Virginia (1977) Counselor, English Institute B.A., M.A., San Jose State University

Pagels, Guerd G. (1956) English A.B., Western Washington College A.M., Ed.D., Stanford University

Peña, June W. (1969)
College Nurse
B.A., San Francisco State
University
M.S., University of California,
San Francisco

Plunkett, Charles R. (1965) English A.A., College of San Mateo A.B., Stanford University M.A., San Francisco State University

Preston, Jack (1984)
Computer Science, Mathematics
B.A., Clark University
M.A., San Francisco State
University

Reller, Theodore L., Jr. (1968) Political Science A.B., M.A., University of California, Berkeley

Rodriguez, Ernesto (1970) College Psychologist A.B., M.A., San Francisco State University Ph.D., Wright Institute

Sandler, Marie H. (1974) E.C.E./Psychology B.S., M.S., Florida State University

Sanfilippo, Rudy A. (1976) Sociology, Management B.A., M.A., San Jose State University

Schey, Robert E. (1970)
Coordinator of Counseling,
Cooperative Education & Testing
B.A., M.A., San Francisco
State University

Schoenky, Mary A. (1963) Counseling, Career Classes R.N., College of St. Scholastica B.S., University of Minnesota M.N., University of Washington

Sitton, Carl V. (1968) Music B.M., Texas Wesleyan College M.A., Mills College

Sonntag, Lela M. (1970) Counseling B.A., M.A., San Jose State University M.A., University of LaVerne

Sorensen, Lenora H. (1975) Tourism B.A., Texas A & I M.A., George Washington University

Stegner, Paul F. (1969)
Psychology, Computer Science
B.S., Pennsylvania State
University
M.A., California State
University, Fresno
Ph.D., Washington State
University

Steidel, James N. (1971) History, Ethnic Studies B.A., Kenrick College M.A., Ph.D., University of Southern California

Stein, Pamela D. (1969) English A.B., M.A., University of California, Berkeley

Stiff, Robert (1961)
President
A.B., M.A., San Francisco
State University

Stoney, James M. (1959) Microbiology, Biology B.A., M.A., San Francisco State University

Sutherland, Kenton (1970)
English, English Institute
A.A., Compton College
B.A., University of the Americas
M.A., University of California,
Los Angeles

Swenson, Jack S. (1964) English B.A., University of Minnesota M.A., San Francisco State University

Szabo, Rosalee (1969) English B.S., Cornell University M.A., University of Rochester Thein, Van Raymond (1970) Music B.A., M.A., San Francisco State University

Todesco, Lora B. (1974)
Business
B.A., San Jose State University
M.B.A., San Francisco State
University

Tovissi, Joseph A. (1965) Mathematics, Counselor B.S., Kent State University A.M., Stanford University M.S., Purdue University

Trugman, Ronald E (1973)
Instructional Technology
B.A., Long Beach State University
M.S., M.S.Ed., Ph.D., University of
Southern California

Vial, Silvano A. (1964) Physical Education B.S., University of Idaho A.M., Stanford University

Villarreal, Gilberto S. (1968) Spanish, English Institute B.A., San Jose State University M.A., Stanford University Ph.D., University of Colorado

Vogel, Irwin (1977) Ophthalmic B.P.S., Empire State College

Weidman, Jane C. (1975)
English
A.B., University of Oregon
M.S., California State University,
Hayward

Welles, Samuel Paul, Jr. (1970) Biology B.S., M.S., Ph.D., University of California, Berkeley

Westover, Ross W. (1962) Physical Sciences B.S., Brigham Young University M.S., Syracuse University

Workman, Gilbert B. (1968) History B.A., Yale University M.A., San Jose State University

Young, Frank C. C. (1969) Philosophy B.A., University of Florida M.A., San Francisco State University

Zingales, Thomas J. (1964) French, German B.A., University of Notre Dame A.M., Stanford University

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