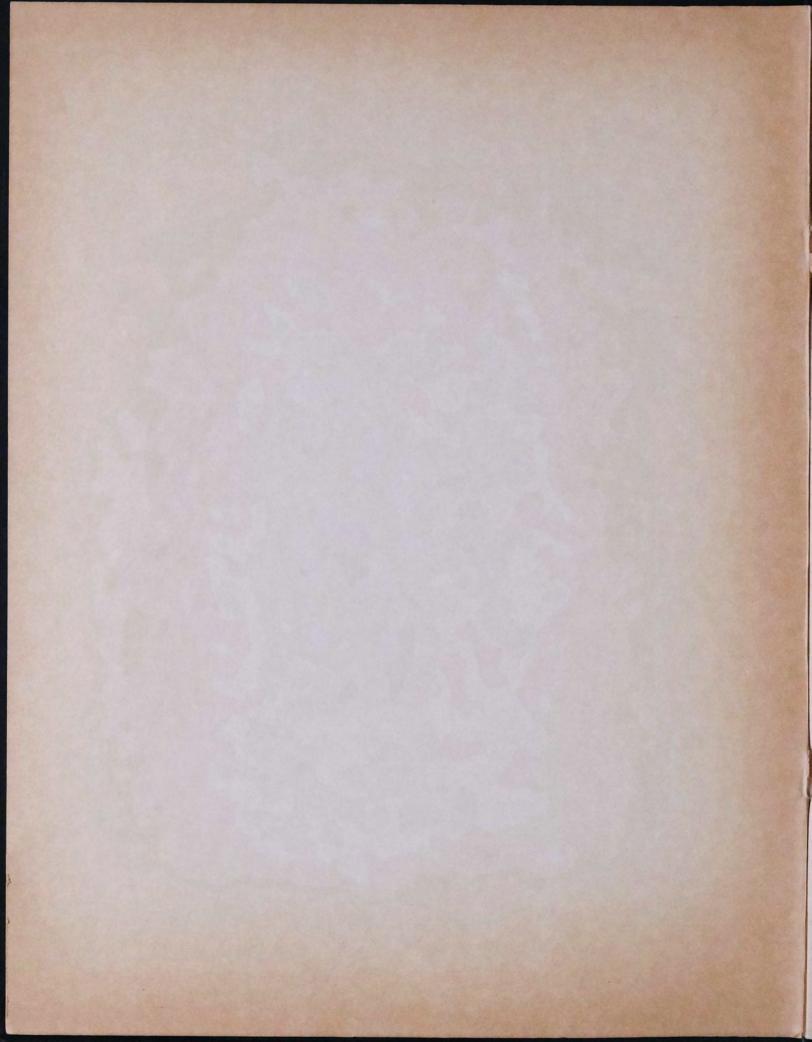
# CANADA · COLLEGE CANADA · COLLEGE **@ANADA • @OLLEGE** @ANADA • C@LLEGE CANADA · COLLEGE CANADA · COLLEGE CANADA · COLLEGE CANADA · COLLEGE CATALOG

1989-1990



## CAÑADA COLLEGE

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

#### ADMINISTRATION

Robert Stiff, President

Olivia Martinez, Vice President

To Be Named, Director Basic & Applied Sciences Division

Joan Del Gaudio, Director Counseling/Advising & Matriculation

Classie Foat, Director College Services

John Friesen, Jr., Director Humanities Division

Ella Turner Gray, Director Special Programs & Services

Jesse Guerrero, Registrar

Lori Hergert, Director Instructional Resources

Grace Heringer, Director Business/Social Sciences Division

## **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.

Eleanore D. Nettle, President

James R. Tormey, Jr., Clerk

Thomas L. Constantino

William E. Jordan, M.D.

Jim Warren

Christopher Martinez, Student Trustee, 1989-90

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.

## 1989-1990 CATALOG

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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.

#### **Cover** Design

Jeanne Schreiber

Editors

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Design/Photography Terri Creswell

## 2 CALENDAR FOR 1989-90

#### FALL SEMESTER, 1989

Sept. 4	Holiday-Labor Day
Sept. 5	Flex Day
Sept. 6	Classes begin
Sept. 19	Last day to add semester-length classes
Sept. 19	Last day to drop classes with eligibility
	for enrollment fee refund
Sept. 25	First Census Day
Sept. 29	Last day to drop classes without
	appearing on student's record
Oct. 23-2	7 Academic Progress Report Week
	Holiday — Veterans' Day
Nov. 11	Declared Recess
Nov. 13	Second Census Day
Nov. 17	Last day to apply for Degrees & Certificates
	Fall Graduates
Nov. 23	Holiday — Thanksgiving
	25 Declared recess
Dec. 8	Last day to drop semester-length classes with
	possible penalty grade
Dec. 18-J.	an. 1 Winter recess
Jan. 15	Holiday — Martin Luther King
Jan. 19-26	Final examinations (Day classes)
Jan. 22	Evening classes close
	Day classes close
Jan. 29-Fe	eb. 2 Inter-semester recess

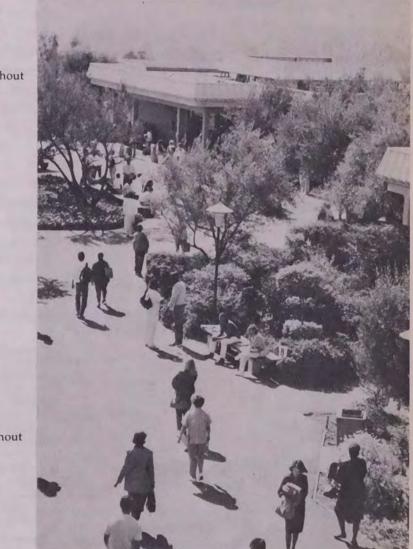
#### SPRING SEMESTER, 1990

Feb. 5 Classes begin

- Feb. 9 Holiday Abraham Lincoln
- Feb. 10 Declared recess
- Feb. 19 Holiday George Washington
- Feb. 20 Last day to add semester-length classes Feb. 20 Last day to drop classes with eligibility
- for enrollment fee refund
- Feb. 26 First Census Day
- Mar. 2 Last day to drop classes without, appearing on student's record
- Apr. 2-6 Academic Progress Report Week
- Apr. 9-14 Spring recess
- Apr. 20 Last day to apply for Degrees & Certificates Spring Graduates
- Apr. 23 Second Census Day
- May 18 Last day to drop semester-length classes without possible penalty grade
- May 28 Holiday Memorial Day
- June 7-14 Final examinations (Day classes)
- June 14 Day & Evening classes close

## SUMMER INTERSESSION, 1990

- June 25 Summer Intersession begins
- July 4 Holiday Independence Day
- Aug. 3 Six-week Summer Intersession ends
- Aug. 17 Eight-week Summer Intersession ends
- Aug. 31 Ten-week Summer Intersession ends



## FROM THE PRESIDENT

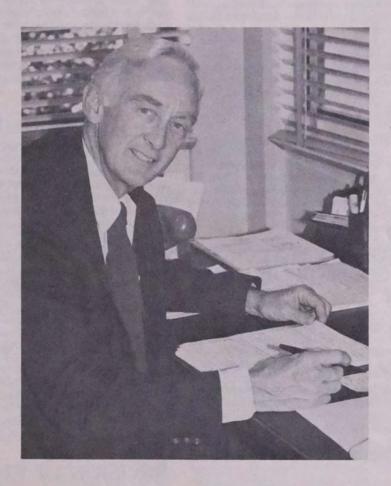
I wish to extend a warm welcome to you as you begin your attendance at Cañada College. I urge you to take full advantage of the many educational opportunities this College has to offer — a varied curriculum, a strong instructional staff, and excellent support services. You will be richly rewarded if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

C trado **Robert Stiff** 

President



PRESIDENT'S MESSAGE

## 4 GENERAL INFORMATION

#### THE COLLEGE

Cañada 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 Cañada Road, which winds its way through the valley to the west of the college; the Spanish 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 instructional 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. The telephone number is 367-1774 or 364-1212, extension 313. For general and/or book information, ask for Judy Inouye, manager, or Rose Twyman.

#### **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.

#### **COMPUTER CENTER**

The Cañada Computer Center is located in Building 5 on the middle floor. Any student who is enrolled in a Cañada College class requiring computer time may use the Computer Center equipment. The Center is operated on an open lab basis. Usage is not scheduled; students may come in at any time to work on assignments. Several different word processing, spreadsheet, data base, CAD, and tutorial software packages may be checked out for use in the Center. Staff and/or experienced student aides are on hand to answer questions at all times. The Center houses APPLE IIe IBM PC and Macintosh computers. The Center is open seven days a week.

#### 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.

#### EVENING COLLEGE

The Evening College is coordinated by the College Services Office, first floor of the Administration Building. Services are available to students and faculty Monday through Thursday until 9:00 p.m., including registration, counseling, photocopying, message center, library, media and health services.

Classes in the Evening College program are open to all persons who are 18 years of age or older and to high school graduates. Although a large majority of those attending Evening College are adults, many day students take classes in the evening to round out their programs or to better fit their time schedules.

The Evening College offers certificate programs in General Management, Public Administration, Accounting, Early Childhood Education, Paralegal, Home Economics, Interior Design, and Tourism. Additional certificate programs are planned for the future. A Cooperative Education program is also offered in which students receive units toward the certificate and the A.A. or A.S. degree. Requirements for the A.A. or A.S. degrees and the certificate programs may be fulfilled through attending Evening College classes.

#### 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 is the information center of the campus and strives to support the instructional program of the College. Its collection of books, periodicals, newspapers, microfilm, microfiche, maps and pamphlets is organized for easy access.

There are three service areas. The Circulation/Reserve book area contains restricted loan material as well as college catalogs. The *Reference/Periodical* area serves the research needs of students. Shelved there are periodical and newspaper indexes, the micro-film 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.

In addition, as a new member of the Peninsula Library System, the Cañada library will provide access to the 1.5 million items in the County's public libraries via an on-line catalog. At the same time, access and information on the 200,000 volumes in the three District college libraries will also be readily available on-line. These links are being implemented now, and are projected to be available for use sometime during the 1989-90 school year.

A reference librarian is always on hand to aid students in the use of the various information resources. Do not hesitate to ask! The student I.D. card, a tear-out on the computer printed class schedule given at time of Registration, must be shown to borrow library materials. For additional details on library services, pick up a copy of the Library Information sheet.

Hours of Service:

Monday-Thursday	 	 		 	 1.4	 	* .		 8 a.1	m9 p.r	n.
Friday											
Saturday, Sunday .	 	 	 	 		+ +	4	 ;	 	CLOSE	D
Holidays as posted											

All students are encouraged to enroll in Library Science 100, a one-unit skills building course on using an academic library's resources.

#### MEDIA LEARNING CENTER

The Media Learning Center is located on the second floor of Building 5, Room 105, 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. Media hours are: Monday-Thursday 8 a.m.-9 p.m. Friday: 8 a.m.-1 p.m. Saturday, Sunday CLOSED

#### OFFICE OF BUSINESS OPERATIONS

The Business Operations Office has responsibility for operation of the College Business Office, security, classified and regular certificated 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, student government, and special programs, i.e., Disabled Students Program, 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

Parking anywhere on campus is by permit only, in clearly designated areas (see campus map). Some lots are limited to staff only in the daytime, but are open to students in the evening, with the exception of Lot 5, which is staff only day and evening.

Student parking permits are available for \$20 per campus semester and \$10 for the Summer Session and may be purchased during registration or from the Business Office, Building 8, Room 305 during the day, or from the Admissions and Records Office during the evening. Parking permits must be affixed to the rear, left bumper or the lower left corner of the rear window. Mirror hangers are no longer allowable.

A second permit may be purchased for \$1 on presentation of registration certificates from both vehicles showing ownership by the same person.

Students attending class only one day or evening per week may purchase a daily permit each time they come on campus. These are available from vending machines for \$.75 (require 3 quarters) and allow parking in student lots only. Daily permits are to be placed on the left hand side of the dashboard clearly visible to the security officer

Visitor Parking Lot 4 is limited to one-hour parking except in Handicapped spaces. Visitors on official business may request a temporary Visitor's Permit allowing them to park in Visitor or permit lots. These are available from the Business Operations Office, Building 8, Room 305.

Special parking permits for handicapped students, day and evening, are authorized by the Handicapped Enabler's Office, Building 3, Room 103. Parking fees are not refundable unless an action of the college (e.g. class cancellation) prevents a student from attending class.

A two week grace period will be in effect in Student parking lots only, in order to enable students to purchase a permit during the first two weeks of the semester. Beginning September 20, 1989, permit requirements will be strictly enforced in student lots. Parking regulation are enforced at all times in staff lots and in other restricted areas.

Parking spaces are available on a first-come, first- served basis. Therefore, a permit is not a guarantee of a parking space. Cañada College and the San Mateo County Community College District do not accept liability for vandalism, theft or accidents. Use of parking facilities is at the user's risk.

Parking and traffic violations are enforced by Campus Security located in the Business Operations Office, Building 8, Room 305. For more information, call 364-1212, extension 270, 271, or 272.

#### **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 upon increasing the chances of success in a specific course and/or achieving one's educational goals. Every effort is made to recruit tutors from 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 (adjacent to the College Library). The Center is open Monday through Friday. All tutoring sessions are scheduled in the Center.

If you need a tutor or wish to be a tutor, apply at the Tutorial Center or contact Albert Archuleta, Tutorial Coordinator, at 364-1212, extension 357 or 402.

#### CONTINUING EDUCATION FOR HEALTH PROFESSIONALS

Cañada College offers courses, lectures, conferences, and workshops which comply with the continuing education regulations of California's Board of Registered Nursing. Enrollment is open to all registered and licensed vocational nurses. A certificate of verified units/hours is issued to each participant upon completion of the offering. Cañada's BRN Provider Number is 03180.

#### COOPERATIVE ADMISSIONS PROGRAM (CAP)

The University of California, Berkeley's College of Letters and Science and Cañada College offer a Cooperative Admissions Program for students not admitted to UCB because of space limitation but who met the eligibility requirements for admission.

Provided they meet specified criteria, CAP students are guaranteed admission to UCB as juniors. Students are required to spend the first two years at Cañada College completing specific requirements for their major at UC Berkeley and for their breadth requirements in the College of Letters and Science. For more information, call the Counseling Office, 364-1212, extension 385.

STUDENT SERVICES 7

#### STUDENT SERVICES DIRECTORY

Cañada has a commitment to extend educational opportunity to all members of the community and implements this philosophy by means of various programs, services and facilities at the College. Most administrative offices are open 8 a.m. to noon and 1 p.m. to 4:30 p.m., Monday through Friday. It is recommended that you make an appointment in advance or call for specific hours of operation: (415) 364-1212 (8 a.m. to 4:30 p.m.); (415) 364-1213 (4:30 to 9 p.m., Monday through Thursday).

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Physical Education Office 1-204	348,9 267,8 263,4 219,339 304,430 348,9 386	
Placement Testing (English & Math) 3-205	348,9 267,8 263,4 219,339 304,430 348,9 386 420	
President's Office 8-312	348,9 267,8 263,4 219,339 304,430 348,9 386 420 341,2	
Psychological Services 5-216	348,9 267,8 263,4 219,339 304,430 348,9 386 420 341,2 336,7	
Public Information 8-204	348,9 267,8 263,4 219,339 304,430 348,9 386 420 341,2	

Refunds (Registration Fees)/Cashier	8-305	270,1,2
Reimbursement (Vending Machines)	8-211	263,4
Student Services	Bldg/Rm.	Phone Ext.
Scholarship Office	8-307	401
Security Office (Parking Enforcement)	8-305	270,1,2
Special Programs & Services	8-211	263,4
Student Activities (Special Programs & Services)	8-211	263,4
Student Government (Associated Students) Office	5 Cafeteria	364
Student Newspaper (Long Valley Gazette)	18-106	360,336,7
Telephone Switchboard/Directory	8-203	'O'perator or
Assistance		364-1212
Theatre Manager (Main & Flex Theatres)	3-132	316,336,7
Transcript Requests (Admissions & Records)	8-215	226,7,8
Transportation		
SAMTRANS Bus Schedules/Passes	8-211	263,4
Rediwheels (Handicapped)	3-103	489,490
Tutorial Center	6-12	353,402
Veteran's Assistance (Admissions &	8-215	241,2 or
Records)		364-1213(eve)
Vice President's Office	8-304	234,5
Visitor's Parking Permits (Business Operations)	8-305	270,1,2
Work-Study Grant Program (Financial Aid)	5-207	307,8
Writing Lab	18-117	291,2

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
- Determine matriculation exemption/non-exemption status
- 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
- Health and psychological services

#### ELIGIBILITY REQUIREMENTS FOR ADMISSION 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 and one day immediately preceding the first day of classes.

Applicants who have immigrant status must reside in California for more than one year and one day 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, 11th or 12th 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.

#### **International Students**

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

- Have completed the equivalent of an American high school education with satisfactory grades (normally a "B" or 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 \$100.00 per unit.
- International students unable to demonstrate sufficient command of English or who have scored less than a minimum of 450 on the T.O.E.F.L. may be admitted but will be required to enroll in intensive English courses.
- 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.

Residents of other countries may apply for admission as F-1 visa students through the International Students Program. Special requirements and application deadlines apply.

Students who are legal residents of another country and are in the United States temporarily on F-1 visas to study at another institution may be admitted as part-time students at Cañada College with the approval of the Registrar. These students must present a letter of approval from a counselor or official of the other institution in order to attend Cañada College.

Residents of other countries with other types of temporary visas may also attend Cañada provided the visa expiration date is not prior to the end of the semester in attendance.

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 International 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 \$100.00 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.

#### CONCURRENT ENROLLMENT PROGRAM

Students currently attending high school may apply for concurrent enrollment in either day or evening courses at Cañada College provided that they maintain at least minimum daily attendance at high school. Prior academic performance must indicate a reasonable expectation of successful completion of college courses taken concurrently. All students applying for admission to the program are expected to have earned and to maintain a grade point average of 2.00 or higher in high school. Although every attempt will be made to enroll students in the courses of their choice, college policy gives first priority for enrollment to continuing college students (including continuing Concurrent Enrollment students). Therefore, it is important to list an alternate course on the Concurrent Enrollment Program Application. High school applicants will not be considered for enrollment in courses which are part of impacted programs, as determined by the college. Courses taken in the Concurrent Enrollment Program shall not take the place of equivalent courses offered by the high school of attendance. In all cases, the final decision on the admission of any student to any course rests with the college.

#### Admission Requirements

High school students applying for admission to the Concurrent Enrollment Program must complete and submit to the Office of Admissions and Records a single application packet available from your local high school or the college Admissions Office containing the following:

- Concurrent Enrollment Program Application, properly completed and signed by the high school principal or designee.
- 2. Application for Admission (not required if concurrently enrolled last semester).
- An official copy of high school transcript(s) including all coursework completed to date.

Mail or deliver all of the above to:

Admissions and Records Office

Cañada College

- 4200 Farm Hill Boulevard
- Redwood City, CA 94061

If your application is approved, you will be invited to come to the college campus to meet with a counselor/advisor and complete registration.

High School students participating in the Concurrent Enrollment Program are not required to pay the enrollment fee.

Students who have not been California residents (as defined in the Education Code) for a full year before the beginning of the semester for which they are applying, are required to pay non-resident tuition of \$100 per unit for all courses taken for college credit.

#### 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.
- Obtain high school and college transcripts from all institutions they have attended. Students will bring these transcripts with them when they come to the campus for counseling and registration. High school transcripts are not required if the applicant has not attended high school within the past five years.
- Take Placement/Counseling tests and other specific examinations necessary. (See schedule for testing dates and times in Schedule of Classes.)

Students planning to enroll in Ophthalmic Dispensing or Radiologic Technology programs must file a separate application for admission to the college. To obtain the appropriate application form, please call the Basic and Applied Sciences Division at extension 291.

#### **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 an assigned counselor.

#### Fees

All students enrolling in courses in any California Community College will be required to pay \$5.00 per unit or a flat fee of \$50.00 (10.0 or more units). Summer Session fees are \$5.00 per unit or \$50.00 for 10.0 or more units.

#### **Fees Per Semester**

- Enrollment Fee: \$5 per unit if taking fewer than 10 units \$50 if taking 10.0 or more units.
- Health Fee: Required of all students. \$7.50 per semester; \$5.00 for Summer Session.
- Non-resident or International Students Tuition: \$100.00 per unit.
- Parking Permit: Required of all students parking on campus \$20 per semester
- \$10 summer session or \$.75 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 the second week 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 international 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.

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- 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 Registrar 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 Registrar in cases of unique or extraordinary circumstances, beyond the student's control.
- Appeals may be made to the Vice President.

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 (not the instructor).

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.
- 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."
- Any student failing to follow the established withdrawal procedures may be assigned an "F" or "NC" 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.	

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 within 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.

#### **GRADE OPTION**

Each division of the College may designate courses in which a student may elect to receive either a letter grade (i.e. A, B, C, D, or F) or "Credit/No Credit" (i.e. Pass/Fail). Both methods of grading require the student to complete all assignments, exams, and/or class projects. Students who elect this option will be required to sign appropriate forms in the classroom. This decision is irreversible.

Grade option courses allow students to explore various fields of study and to broaden their knowledge, particularly in fields outside their major, without jeopardizing their grade point average. However, the credit/no credit option may or may not be permitted in courses which are used to satisfy major, certificate, or general education requirements. In addition, four-year colleges and universities vary widely in the number of units of "credit" grades they will accept. Students should consult the catalogue of the college to which they may transfer to determine what limitations apply. The use of courses graded "credit" in a grade-option desig-

The use of courses graded "credit" in a grade-option designated course to satisfy major or certificate requirements must be approved by the Division Director, in consultation with members of the division faculty. A maximum of 12 units toward an associate degree or 6 units toward a certificate may be in grade-option courses in which a student has elected to receive a grade of "credit".

#### **CREDIT/NO CREDIT**

Each division of the College may also designate courses in which all students are evaluated on a credit/no credit basis only. Credit grades earned in these courses are exempt from the 12/6 unit maximum.

#### MATRICULATION

Matriculation is a process which provides the necessary support services and follow up that students need to successfully complete their educational goals. This process seeks to provide students with access to the college and educational success once they are enrolled.

The primary goals of matriculation are to increase the extent to which students attain their educational objective and to increase the effectiveness with which the college and the District deliver our educational programs.

Matriculation consists of seven inter-dependent components. The implementation of these components will bring major changes in the way we enroll, assess, counsel and track students. These changes will increase students' ability to make sound academic decisions and complete their educational goals in a timely manner. The seven components of matriculation are: Admission, Orientation, Skills Assessment/Student Evaluation, Counseling/ Advisement, Student Progress/Follow-up, Coordination and Training, and Institutional Research.

It is hoped that matriculation will be accepted for what it is, a coordinated effort of the college staff to implement a process which will provide students with access to the college and every opportunity for academic success.

#### **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 \$3.00. 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. Contact the Admissions Office 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. In no case may a final grade earned in a repeated course be applied to alleviate more than one substandard grade. Courses in which the student has received grades of "CR", C, B, or A 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. The student should first contact the Division Director, and finally the Registrar's Office 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:

ACADEMIC 7 POLICY

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 nonattendance 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.

#### 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 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). 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. (Example:  $56 \div 28 = 2.00$  GPA.)

Any grade point total less than twice the attempted units is regarded as deficient. (Example:  $55 \div 28 = 1.96$  GPA)

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 following grading scale:

S	ymbol	Definition	Grade Poin
	A	Excellent	4
	В	Good	3
	С	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	
	A	to much other have I are followed as	

- 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 of Student & Administrative Services. 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

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. The American History requirement can be fulfilled by passing the Advanced Placement Test in American History with a score of 3, 4, or 5 or by passing the College Board Achievement Test in American History with a score of 500 or better. Test scores and a written petition for this credit must be filed in the Office of Admissions and Records.

Advanced Placement credit units are not applicable for meeting such unit load requirements as those for financial aid, veterans' or social security benefits, scholastic honors, or graduation residency requirements.

#### 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:

- 1. 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.
- 5. 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.

**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/she will render his/her 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.

## POLICY OF NON-DISCRIMINATION

Cañada College is an equal opportunity, affirmative action institution. We subscribe to the requirements of TITLE VI of the Civil Rights Act of 1964, TITLE IX of Education Amendments of 1972, and SECTION 504 of the Rehabilitation Act of 1973.

Cañada College does not discriminate on the basis of race, color, national origin, sex, religion, or handicap. We act affirmatively to guarantee equal access for admission to the college, enrollment in classes, student services, activities, financial aid, and employment.

Inquiries concerning TITLE VI of the Civil Rights Act of 1964 should be addressed to:

Vice President for Student and Administrative Services Cañada College 4200 Farm Hill Boulevard Redwood City, CA 94061 Telephone: 415-364-1212 Extension: 234

Inquiries concerning TITLE IX of the Education Amendments of 1972 should be addressed to:

Director of Basic and Applied Sciences Cañada College 4200 Farm Hill Boulevard Redwood City, CA 94061 Telephone: 415-364-1212 Extension: 291

Inquiries concerning SECTION 504 of the Rehabilitation Act of 1973 should be addressed to:

Director of Special Programs and Services Cañada College 4200 Farm Hill Boulevard Redwood City, CA 94061 Telephone: 415-364-1212 Extension: 263

### POLITICA DE NO-DISCRIMINACION

Cañada College ofrece igualdad en oportunidades, sin discriminación (acción afirmativa), a todos los alumnos que se inscriban a clases. Obecedemos los requisitos impuestos por el TITULO VI relacionado al Acta de Derechos Civiles de 1964, el TITULO IX de las Enmiendas Educativas de 1972 y a la SEC-CIÓN 504 del Acta de Rehabilitación de 1973.

Cañada College no discrimina en base a raza, color, nacionalidad, sexo, religión o limitaciones físicas (handicaps). Tomamos medidas necesarias para garantizar acceso al colegio a todos los que se inscriban a clases, reciban servicios estudiantiles, asistencia financiera o participen en diversas actividades o empleos en Cañada.

Preguntas relacionadas al TITULO VI del Acta de Derechos Civiles de 1964 pueden dirigirse al:

Vice Presidente para Servicios Estudiantiles y Administrativos Cañada College 4200 Farm Hill Boulevard Redwood City, CA 94061 Teléfono: 415-364-1212 Extensión: 234

Preguntas relacionadas al TITULO IX de las Enmiendas Educativas de 1972, pueden dirigirse al: Director de Ciencias Basicas y Aplicadas Cañada College 4200 Farm Hill Boulevard Redwood City, CA 94061 Teléfono: 415-364-1212 Extensión: 291 Preguntas relacionadas a la SECCIÓN 504 del Acta de

Rehabilitación de 1973, pueden dirigirse al: Director de Programas y Servicios Especiales Cañada College 4200 Farm Hill Boulevard Redwood City, CA 94061 Teléfono: 415-364-1212 Extensión: 263



## FINANCIAL AID & 17 SCHOLARSHIPS 17

## 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 availability 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 between the hours of 8:00 a.m. and 4:30 p.m.

#### **SCHOLARSHIPS**

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 continuing or transferring 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 usually include demonstrated academic achievement and promise, extra-curricular activities, and financial need.

Cañada's Scholarship Committee meets each Spring to review applications and select recipients for the following school year.

Information and applications are available for a number of privately awarded scholarships. Deadlines are usually early in the year.

Requests for applications and information should be directed to the Scholarship Office, Building 8, Room 306A. The application deadline is usually sometime in April for the general scholarship program.



## 18 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.

## VICE PRESIDENT FOR STUDENT AND ADMINISTRATIVE SERVICES' OFFICE

The Vice President's Office is in Building 8, Room 306. The Vice President is responsible for all student conduct and discipline. Please feel free to call her at 364-1212, extension 234, or make an appointment to see her if you have any questions about student rights and/or responsibilities.

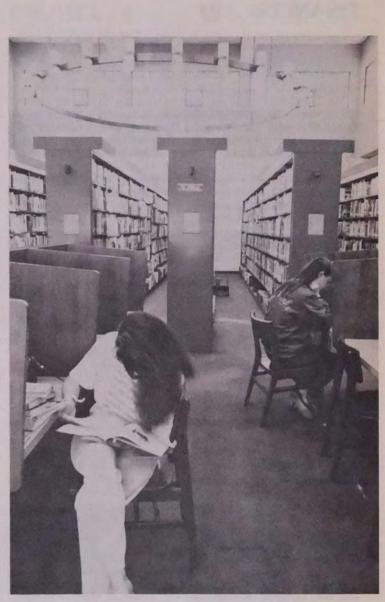
Forms for filing student appeals and/or grievances are also available from the Vice President's Office.

## SECRET ORGANIZATIONS

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

#### FINES

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.



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 educationallyrelated problems.

C.A.R.E. Program Disabled Student Program 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

For additional information, call 364-1212, Ext. 300.

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

#### COOPERATIVE EDUCATION — WORK EXPERIENCE

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

#### 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 handicapped 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).

#### HANDICAPPED PARKING PERMIT

Physically limited students who drive themselves to campus need to register with the College's Disabled Student Office for authorization to acquire an official Cañada College handicapped permit. These handicapped permits must be re-authorized each semester. There is no charge for a handicapped permit, but it is valid only when displayed with a current semester's parking permit.

Students without official permits who park in handicapped parking spaces will be ticketed by Campus Security.

## 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 disadvantages.

EOPS is designed to help students work towards a certificate, an A.A. or an 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 at least 18 years old.
- You meet the state's definition for low income.

For information, call 364-1212, Ext. 300, Bldg. 6, Room 13.

#### 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, or need a room.

#### 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 volley-ball, 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.

## 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.



## COUNSELING 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 goals, to make realistic plans to achieve goals, to clarify college and transfer requirements, and to 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. Counselors provide students with appropriate information about school and community resources.

#### PROGRAM PLANNING AND COUNSELING

Each day student and evening students enrolled in 7 or more units will be assigned a counselor based on the student's declared major or goal. Counselors 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 problems which affect their success in college. The final 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.

The Counseling Office provides drop-in counseling services as well as scheduled appointments. Each counselor posts weekly appointment schedules on his or her office door for the students' use. A student may change counselors by contacting the Office of Counseling Services, Bldg. 5, Room 213.

Evening students enrolled in less than 7 units may use drop-in counseling services at the Career Center between 5:30 and 8:30 p.m. Monday through Thursday. During semester registration periods the student may seek the help of any counselor available in the registration area, although the counselor is not able to review specific student records or take telephone calls. After the second week of the semester, the student may contact the evening counselor by calling 364-1213 after 4:30 p.m. The best time to use the counselor is during the semester when transcripts and counselor time are more readily available. Any student seeking further information on counseling services may call 364-1212, Ext. 385 between 8:00 a.m. and 4:30 p.m.

## CAREER AND PERSONAL DEVELOPMENT

The Counseling staff teaches classes in careers and personal development. These classes provide the framework for selfunderstanding, orientation to college, an exploration and setting of occupational goals, peer counseling, and adjusting to college.

#### **CAREER CENTER**

The Career Center provides interest inventories, vocational, and personality assessment to all registered students. Through this service, students receive assistance in assessing their skills and interests so that they may better plan their educational and vocational goals. Students may obtain additional information regarding career counseling services from their counselor or the Career Center. The Career Center has resources that provide job descriptions and requirements for over 20,000 occupations. These resources include pamphlet files, reference books, college/university catalogs, Peterson's College Selection Service available on the IBM = PC, files of foreign and overseas programs of study and travel, and EUREKA (the computerized occupational information system.) A student may wish to research a possible career choice or college, take career assessment inventories, or discuss goals. In addition, employer directories, job search information/ strategies, as well as resume development and interviewing techniques are also available.

Located in Building 5, Room 204, the Center is open Monday through Friday 9:00 a.m. to 3:00 p.m., and from 5:30 to 8:30 p.m. one evening a week. Phone 364-1212 extension 452 for more information.

## HEALTH AND PSYCHOLOGICAL SERVICES

The Health Center is located near the cafeteria in Bldg. 5, Room 213. A variety of services are available: information and consultation on health problems, evaluation of symptoms, first aid, vision screening, blood pressure reading, health oriented programs; assistance with referrals to psychological services, personal counseling, arrangements for emergency care and student insurance.

An excellent voluntary health insurance is available to all students enrolled in a minimum of 4 units of credit. Coverage includes accident and health insurance with a major medical coverage of \$35,000 and a \$50 deductible clause. Two dental insurance plans at reasonable costs are available to all students.

The Office of Psychological Services is near the Health Center in Building 5, Room 216. Offerings include individual counseling, support groups, workshops, community referrals and consultations.

All Health and Psychological Services are free and confidential. They are available to both day and evening students on either a drop-in or appointment basis. Health Center days: 364-1212, extension 309, or evenings: 364-1213, extension 309. Psychological Services days: 364-1212, extension 455 or 309, or evenings: 364-1213, extension 455 or 309.

#### TRANSFER CENTER

One of Cañada College's top priorities is the commitment to the transferring of qualified students to the four-year university of their choice. To achieve this, a Transfer Center has been established and located in the Career Center. Transfer Center services are designed to ensure a smooth transition to a four-year college or university. In addition to a large supply of applications, catalogs and other resource materials, students can talk with counselors and representatives from SFSU and SJSU as well as UC Berkeley. There will be a transfer counselor on duty in the Career Center on Wednesdays, 12 to 6 p.m. and Fridays, 8 a.m. to 2 p.m. For additional information, contact the Transfer Center Coordinator, extension 289.

## 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 background 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 lower division 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 certificates 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.

### OCCUPATIONAL PROGRAMS Associate in Arts Degree or Associate in Science Degree or Certificate Programs

Career Program	Certificate A.A. A.				
Business	A Part and a se				
Accounting	• •				
Business Administration	• •				
Business/Office Skills					
Administrative Assistant	• •				
Office Skills	• •				
Office Management	• •				
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	•				

## 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 with a grade of C or better OR

Completion of E.I. 400 with a grade of C or better.

Mathematics

A minimum score of 21 on the SMCCCD 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. A division may require more than 18 units for a given major. The additional units may, if appropriate, be used to satisfy other A.A. or A.S. degree requirements.

#### **E. GENERAL EDUCATION**

The purpose of General Education is to foster the preservation, communication, and development of knowledge, the cultivation of wisdom, and the understanding of values that will help ensure the survival of humankind and improve the quality of human life. In support of this purpose, the General Education requirement seeks not only to prepare students who are knowledgeable and well-informed, but to engender in them:

- a taste for learning in a climate of curiosity and wonder,
- an independent and critical cast of mind based on a respect for knowledge,
- a capacity for creativity and imagination,
- a sense of ethical responsibility that includes tolerance, sympathy for humankind, and commitment to improve the quality of life.

Courses which meet the General Education Requirements introduce students to the variety of means through which people comprehend the modern world.

The subject matter presented in these courses is designed to be general, broad, and frequently introductory, rather than specialized. In order to promote these goals, the General Education Requirement incorporates the following curriculum objectives:

- to improve the essential communication skills of listening, speaking, reading, and writing based on analytical thinking,
- to acquire a core of knowledge common to educated persons in our society,
- to acquire broad perspectives on the human experience, through a study of both western and non-western civilizations.
- to gain an understanding of the principles of natural phenomena, technological developments and the effects they will have on society, the insights afforded by the social sciences into the human experience, and the contributions of the humanities to the enrichment of human existence,
- to develop sensitivity to the dilemmas facing humankind by an introduction to key social issues of the contemporary era,
- to develop the knowledge and understanding of the rights, responsibilities and privileges involved in becoming a participating citizen in a democratic, pluralistic society.
- to provide opportunities to gain information which could aid students in making realistic career decisions.

#### Associate in Arts Degree

21 units minimum

#### Associate in Science Degree

18 units minimum

#### F. 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.

## SECOND ASSOCIATE DEGREE

To qualify for an additional associate degree at Cañada College, a student must (1) complete the minimum of 12 units for the degree at Cañada College after the awarding of the previous degree and (2) comply with the appropriate general education requirements for the second degree.

In addition, 50 per cent of the major course units must have been completed at Cañada College.



#### ASSOCIATE IN ARTS OR ASSOCIATE IN SCIENCE DEGREE

Majors	A.A.	A.S.
Accounting		•
Anthropology	•	
Art	•	
Biology		•
Business Administration		•
Business/Office Skills		
Administrative Assistant		•
Office Skills		•
Office Management		•
Word/Information Processing		•
Chemistry		•
Computer Inform. Systems		•
Drama	•	
Early Childhood Education		•
Economics	•	
Engineering		•
English	•	
Foreign Language	•	
Geography	•	
History	•	
Home Economics	•	
Interior Design		•
Journalism	•	
Liberal Arts	•	
Management		•
Mathematics		•
Microcomputer Applications		•
Microcomputer		
Technician		•
Music	•	
Ophthalmic Dispensing		•
Paralegal		•
Philosophy	•	
Physical Education	•	
Physics		•
Political Science	•	
Psychology	•	
Radiologic Technology		•
Sociology	•	
Speech	•	
Tourism		
University Studies	•	

## ASSOCIATE DEGREE 27 A.A./A.S. REQUIREMENTS 27

Note: Courses circled have been completed at Cañada College. Courses **underlined** are now in progress. () Indicates transferred courses. Graduation from Cañada College with the **Associate in Arts Degree** or the **Associate in Science Degree** is based upon the completion **of 60 units** including the requirements **A through G** listed below

A. RESIDENCE:	MAJOR COURSES UNITS
A minimum of 12 units must be completed at Cañada College	
B. SCHOLARSHIP: A minimum overall G.P.A. of 2.0 (C) for the last 60 units ()	
C. BASIC COMPETENCY REQUIREMENTS: G.P.A	
ENGLISH: One of the following: Eligibility for Engl 100 based upon English Placement Exam	
Completion of Engl 800 with a grade of C or better	
Completion of E.I. 400 with a grade of C or better	
MATHEMATICS: One of the following: Appropriate scores on any of the following:	
SMCCCD Math Placement Exam #2: 21 or above, OR	
SCAT: 27 or above, OR ACT Math: 15 or above, OR SAT Math: 400 or above	
Completion of the following with a grade of C or better: ()	
Elementary Algebra (Math 110 or 111 and 112), OR	
ANY mathematics course with Math 110 as a prerequisite. D. MAJOR: ()	
A major consists of a minimum of <b>18 semester units</b> in a specified field of study.	
E. GENERAL EDUCATION: General Education courses introduce the student to areas of study that develop	
breadth of outlook and contribute to a balanced development.	
ASSOCIATE IN ARTS (A.A.) DEGREE	
ASSOCIATE IN SCIENCE (A.S.) DEGREE 18 units ( )	TOTAL UNITS
F. PHYSICAL EDUCATION:	LOWER DIVISION
ANY Physical Education course except P.E. 690 or 395. (See Page 25 for waivers.)	Total Units
G. ELECTIVES:	FULFILLED
	(60 units required)
GE AREA A: LANGUAGE AND RATIONALITY:	GE AREA A: 6-9 Units
English Composition Communication & Analytical Thinking 3 units ( )	In Progress Completed
A.A.         DEGREE         6 units () Bus.         115         Math         105         110         111         115         120           Engl         800         100         110         165         Comp         151         155         162         170         121         122         125         130         200	AA AS
E.I. 400 Engl 165 219 220 241 251 410	CA CA
A.S. DEGREE 3 units () Mus. 132 PISc 103 Engl 800 100 Phil 103 200 Tr	Total Completed
Engl 400 Spch 100 120	
Tr	
GE AREA B: NATURAL SCIENCES: 3 units required	GE AREA B: 3 Units
Physical Science Life Science	
Astr         100         NSci         100         Anat         250         H.Ec         310           Chem         110         210         224         410         Ocen         100         Anth         125         Mbio         240	In Progress Completed
Geog 100 Phys 210 250 260 405 481 Biol 100 110 111 130 160 310 NSci 100	GEB GEB
Geol 100         Boty 112 145 220         Psio 260           HSci 101 104 105 106 108         Zool 210	
GE AREA C: HUMANITIES:	GE AREA C: 3 Units
Arts Languages Literature	
Art         101         102         103         201         Fren         130         140         161         Dram         142         143         144         151         152           204         214         301         Span         130         140         161         Engl         110	In Progress Completed
Dram 101 102 140 Lit. 101 111 141 142 143	GEC
Hum. 100         Philosophy         144         151         152         200         231           IntD         115         150         320-321-322         Hist         205         232         233         251         252         301	
Mus. 100 131 202 Phil 100 160 175 190 302 341 431 441 442	
Development of Cultures	
Hist 100 101 Tr Tr Tr	
GE AREA D: SOCIAL AND BEHAVIORAL SCIENCES:	GE AREA D: 3 Units
American InstitutionsState/ Local InstitutionsSocial InstitutionsEcon 230Local InstitutionsAnth 105 110Psyc 100 108 110	In Progress Completed
Hist 102 201 202 421 Hist 310 315 Econ 100 102 201 300	GED
PISc         205         210         PISc         205         310         Geog         110         120         150         Soci         100         105           T         PISc         150         SoSc         100         105	American Institutions
Ir Ir	State/Local Institutions
GE AREA E: ETHNIC STUDIES:	GE AREA E: 3 Units
Anth         360         370         Lit.         266         371         372         375         Soci         141           Hist         242         422         451         452         Psyc         278         SoSc         250	In Progress Completed
IntD 320-321-322 Tr	GEE

## 28 ASSOCIATE IN ARTS DEGREE LIBERAL ARTS

## THE ASSOCIATE IN ARTS DEGREE: LIBERAL ARTS MAJOR

The Liberal Arts Major provides students with a broad foundation of academic knowledge. This flexible major can be taken by undecided students who wish to earn an Associate in Arts Degree.

REQUIREMENTS FOR A.A. DEGREE: LI <ul> <li>Residence</li> <li>Scholarship</li> <li>Basic Competency</li> <li>Major — Liberal Arts</li> <li>General Education</li> <li>Physical Education</li> <li>No course will satisfy more than one</li> </ul>		2.0 G.P.A. English, Mathematics Minimum 18 units (see Minimum 21 units (see	below) below)
AREA A: Communication in the English I One course from Areas A1, A3,	anguage & Critical Thinking: and A4 and two courses from A	rea 2.	15 units
A1 ORAL COMMUNICATION Spch 100, 120	A2 WRITTEN COMMUNICATION Engl 800, 100, 110 E.I. 400 Math 105, 110, 111, 115, 120, 121, 122, 125, 130, 200, 219, 220, 241, 251, 410 MINIMUM	A3 CRITICAL THINKING Engl 165 Phil 103, 200 Plsc 103 Tr Tr 15 TOTA	
	group: Physical and Life Sciences ourse indicated by an asterisk *.)		6 units
B1 PHYSICAL SCIENCE Astr 100 Chem 100*, 210*, 224*, 410* Geog 100 Geol 100* NSci 100 Ocen 100 Phys 210*, 250*, 260*, 405, 481*	B2 LIFE SCIENCE Anat 250*, Anth 125 Biol 100, 110*, 111*, 130*, 160 Boty 112*, 145, 220* HSci 101, 104, 105, 106, 108 H.Ec 310 Mbio 240* NSci 100 Paln 110 Psio 260* Zool 210* MINIMUM	LAB COURSE           Tr           Tr           6	
AREA C: Humanities: Courses to be selected from two	o different sub-areas. †indicates E	thnic Studies courses.	6 units
C1 ARTS Art 100, 102, 103, 201, 204, 214, 301 Dram 101, 102, 140 Hum. 100 IntD 320-321-322†			
Mus. 100, 131, 202 C2 LITERATURE Dram 142, 143, 144, 151, 152 Engl 110 Lit. 101, 111, 141, 142, 143, 144, 151, 152, 200, 231, 232, 233, 251, 252, 266t, 301, 302, 341, 371t, 372t, 375t, 431, 441, 442 Spch 111, 112	Fren 110 130, Germ 11 12 Span 11 130 C5 DEVELO	N LANGUAGES 0, 111, 112, 120, 121, 122, 140, 161, 162 10, 111, 112, 120, 1, 122 0, 111, 112, 120, 121, 122, , 140, 161, 162 PMENT of CULTURES , 101, 451†. 452† 0†	
Tr	Tr MINIMUM		ī.

		a. Thireffeatini	stitutions
.) †Ethnic Studies (	D2 STATE/LOCAL INSTITUTIONS Hist 310, 315 PISc 205*, 310		
	PlSc 110 Psyc 100, 108, 110, 201, 202, 278t, 300, 340, Soci 100, 105, 141t, 360 SoSc 100, 122, 392		
MINIMUM		TOTAL	
	Psyc 278 Soci 141 SoSc 250 Tr		. 3 units
MINIMUM		TOTAL	
	H.Ec. 310, 312 HSci 101, 104, 105, 106, 108	TOTAL	
			2 unito
units from Areas A	— F listed on the State University certification	sheet. TOTAL	3 units
units from Areas A	-F listed on the State University certification	sheet.	3 u
	MINIMUM f-Development:	Hist 310, 315         PISc 205*, 310         PISc 110         Psyc 100, 108, 110, 201, 202,         278t, 300, 340,         Soci 100, 105,         141t, 360         SoSc 100, 122, 392         Tr         MINIMUM         6         MINIMUM         6         Fsyc 278         Soci 141         SoSc 250         Tr         MINIMUM         3         f-Development:	Hist 310, 315         PISc 205*, 310         PISc 110         Psyc 100, 108, 110, 201, 202,         278t, 300, 340,         Soci 100, 105,         141t, 360         SoSc 100, 122, 392         Tr         MINIMUM         Psyc 278         Soci 141         SoSc 250         Tr         MINIMUM         3         TOTAL         F-Development:         H.Ec. 310, 312         HSci 101, 104, 105, 106, 108

## 30 ASSOCIATE IN ARTS DEGREE UNIVERSITY STUDIES

## THE ASSOCIATE IN ARTS DEGREE CALIFORNIA STATE UNIVERSITY STUDIES MAJOR

The University Studies Major provides students with a broad foundation of academic knowledge. This flexible major is a transfer degree program designed for students who plan to transfer to the California State Universities.

The Associate in Arts Degree in University Studies meets all the General Education requirements for the A.A. Degreee and all of the California State University General Education course requirements for admission to Junior status. Completion of this degree at Cañada College with a grade point average of 2.0 for California residents, 2.4 for non-residents of California, assures admission to most majors in the CSU and certifies that all General Education requirements for the baccalaureate degree have been met, except for the 9 upper division semester units.

While this program is applicable to most baccalaureate majors, some majors like Music and Computer Science require a number of lower division uni8ts which are not provided for in this program. Students with CSU major goals not covered by this program should follow the existing articulation agreements between Cañada College and CSU and the General Education pattern set forth in the Cañada College catalog.

## **REQUIREMENTS FOR A.A. DEGREE UNIVERSITY STUDIES**

Completion of the requirements for the A.A. Degree:       60 units         Residence       60 units         Scholarship       2.0 G.P.A.         Basic Competency       English         Mathematics       2 units						
2. Completion of Areas A – G listed below	(maximum of 30 units from Area	s B—D).				
AREA A: Communication in the English L Select at least one course from e			9 units			
A1 ORAL COMMUNICATION Spch 100, 120	A2 WRITTEN COMMUNICATION Engl 100	A3 CRITICAL THINKING Engl 165 Phil 103, 200 Plsc 103				
	MINIMUM					
	ce (B1), Life Science (B2), and Mat Area B1 or B2 (indicated with *).	h Concepts (B4).	9 units			
B1 PHYSICAL SCIENCE Astr 100 Chem 100*, 210*, 224*, 410* Geog 100	B2 LIFE SCIENCE Anat 250* Anth 125 Biol 100, 110*, 111*,	B3 LAB COURSE				
Geol 100*, 110 NSci 100 Ocen 100 Phys 210*, 250*,	130, 160 Boty 112*, 145, 220* Mbio 240* NSci 100	B4 MATH CONCEPTS Math 105, 125, 125, 130, 200, 219,				
260*, 405, 481*	Paln 110 Psio 260* Zool 210*	220, 241, 251				
	MINIMUM					

	irses.			_
C1 ARTS		C3 PHILOSOPHY		
Art 100, 102, 103, 201, 204, 214, 301		Hist 205,		
Dram 101, 102, 140		Phil 100, 160, 175, 190, 240,		
Hum. 100		300, 310, 320		
IntD 320-321-322† Mus. 100, 131, 202		C4 FOREIGN LANGUAGES		
Wus. 100, 131, 202		Fren 110, 111, 112, 120, 121, 122,		
C2 LITERATURE		130, 140, 161, 162		
Dram 142, 143, 144, 151, 152		Germ 110, 111, 112, 120,		
Engl 110		121, 122		
Lit. 101, 111, 141, 142, 143,		Span 110, 111, 112, 120, 121, 122,		
144, 151, 152, 200, 231,		130, 140, 161, 162		
232, 233, 251, 252, 266†,		and the second second second second		
301, 302, 341, 371+, 372+,		C5 DEVELOPMENT of CULTURES		
375†, 431, 441, 442		Hist 100, 101, 451†. 452†		
Spch 111, 112		SoSc 250t		
	MINIMUM		TOTAL	
†Ethnic Studies courses. DI AMERICAN INSTITUTIONS				
Econ 230		D2 STATE/LOCAL INSTITUTIONS Hist 310, 315 PISc 205* 310		
Econ 230 Hist 102, 201, 202, 242†, 421 PISc 205*, 210		Hist 310, 315		
Econ 230 Hist 102, 201, 202, 242†, 421		Hist 310, 315		
Econ 230 Hist 102, 201, 202, 242†, 421 PISc 205*, 210 D3 SOCIAL INSTITUTIONS		Hist 310, 315 PISc 205*, 310 PISc 110		
Econ 230 Hist 102, 201, 202, 242†, 421 PISc 205*, 210 D3 SOCIAL INSTITUTIONS Anth 105, 110, 360†, 370†		Hist 310, 315 PISc 205*, 310		
Econ 230 Hist 102, 201, 202, 242†, 421 PISc 205*, 210 D3 SOCIAL INSTITUTIONS Anth 105, 110, 360†, 370† ECE. 212 Econ 100, 102 Envr 120		Hist 310, 315 PISc 205*, 310 PISc 110 Psyc 100, 108, 110, 201, 202, 278†, 300, 340, Soci 100, 105,		
Econ 230 Hist 102, 201, 202, 242†, 421 PISc 205*, 210 D3 SOCIAL INSTITUTIONS Anth 105, 110, 360†, 370† ECE. 212 Econ 100, 102 Envr 120 Geog 110, 120, 150		Hist 310, 315 PISc 205*, 310 PISc 110 Psyc 100, 108, 110, 201, 202, 278†, 300, 340, Soci 100, 105, 141†, 360		
Econ 230 Hist 102, 201, 202, 242†, 421 PISc 205*, 210 D3 SOCIAL INSTITUTIONS Anth 105, 110, 360†, 370† ECE. 212 Econ 100, 102 Envr 120		Hist 310, 315 PISc 205*, 310 PISc 110 Psyc 100, 108, 110, 201, 202, 278†, 300, 340, Soci 100, 105,		
Econ 230 Hist 102, 201, 202, 242†, 421 PISc 205*, 210 D3 SOCIAL INSTITUTIONS Anth 105, 110, 360†, 370† ECE. 212 Econ 100, 102 Envr 120 Geog 110, 120, 150	MINIMUM	Hist 310, 315 PISc 205*, 310 PISc 110 Psyc 100, 108, 110, 201, 202, 278†, 300, 340, Soci 100, 105, 141†, 360	TOTAL	
Econ 230 Hist 102, 201, 202, 242†, 421 PISc 205*, 210 D3 SOCIAL INSTITUTIONS Anth 105, 110, 360†, 370† ECE. 212 Econ 100, 102 Envr 120 Geog 110, 120, 150 Hist 422†		Hist 310, 315 PISc 205*, 310 PISc 110 Psyc 100, 108, 110, 201, 202, 278†, 300, 340, Soci 100, 105, 141†, 360 SoSc 100, 122, 392 		
Econ 230 Hist 102, 201, 202, 242†, 421 PISc 205*, 210 D3 SOCIAL INSTITUTIONS Anth 105, 110, 360†, 370† ECE. 212 Econ 100, 102 Envr 120 Geog 110, 120, 150 Hist 422† AREA E: Lifelong Understanding & Sel		Hist 310, 315 PISc 205*, 310 PISc 110 Psyc 100, 108, 110, 201, 202, 278t, 300, 340, Soci 100, 105, 141t, 360 SoSc 100, 122, 392 9		3 units
Econ 230 Hist 102, 201, 202, 242†, 421 PISc 205*, 210 D3 SOCIAL INSTITUTIONS Anth 105, 110, 360†, 370† ECE. 212 Econ 100, 102 Envr 120 Geog 110, 120, 150 Hist 422†		Hist 310, 315 PISc 205*, 310 PISc 110 Psyc 100, 108, 110, 201, 202, 278t, 300, 340, Soci 100, 105, 141t, 360 SoSc 100, 122, 392 		3 units
Econ 230 Hist 102, 201, 202, 242†, 421 PISc 205*, 210 D3 SOCIAL INSTITUTIONS Anth 105, 110, 360†, 370† ECE. 212 Econ 100, 102 Envr 120 Geog 110, 120, 150 Hist 422† AREA E: Lifelong Understanding & Sel Biol 310, 312,		Hist 310, 315 PISc 205*, 310 PISc 110 Psyc 100, 108, 110, 201, 202, 278t, 300, 340, Soci 100, 105, 141t, 360 SoSc 100, 122, 392 9		3 units
Econ 230 Hist 102, 201, 202, 242†, 421 PISc 205*, 210 D3 SOCIAL INSTITUTIONS Anth 105, 110, 360†, 370† ECE. 212 Econ 100, 102 Envr 120 Geog 110, 120, 150 Hist 422† AREA E: Lifelong Understanding & Sel Biol 310, 312, Crer 137		Hist 310, 315 PISc 205*, 310 PISc 110 Psyc 100, 108, 110, 201, 202, 278t, 300, 340, Soci 100, 105, 141t, 360 SoSc 100, 122, 392 		3 units
Econ 230 Hist 102, 201, 202, 242†, 421 PISc 205*, 210 D3 SOCIAL INSTITUTIONS Anth 105, 110, 360†, 370† ECE. 212 Econ 100, 102 Envr 120 Geog 110, 120, 150 Hist 422† AREA E: Lifelong Understanding & Sel Biol 310, 312, Crer 137 Any Physical Ed. course,	f-Development:	Hist 310, 315 PISc 205*, 310 PISc 110 Psyc 100, 108, 110, 201, 202, 278t, 300, 340, Soci 100, 105, 141t, 360 SoSc 100, 122, 392 		3 units
Econ 230 Hist 102, 201, 202, 242†, 421 PISc 205*, 210 D3 SOCIAL INSTITUTIONS Anth 105, 110, 360†, 370† ECE. 212 Econ 100, 102 Envr 120 Geog 110, 120, 150 Hist 422† AREA E: Lifelong Understanding & Sel Biol 310, 312, Crer 137 Any Physical Ed. course, except P.E. 690, 695 AREA F. Ethnic Studies:	f-Development:	Hist 310, 315 PISc 205*, 310 PISc 110 Psyc 100, 108, 110, 201, 202, 278†, 300, 340, Soci 100, 105, 141†, 360 SoSc 100, 122, 392 9 H.Ec. 310, 312 HSci 101, 104, 105, 106, 108	TOTAL	

## 32 CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION CERTIFICATION

Name	Last	First		Social Security Number
Currently enrolled at Cañada? Courses circled have been co ( ) Indicates a course transfer	mpleted at C	añada College. Cour	Major rses <b>underlined</b> are now in pro	ogress.
AREA A: COMMUNICATIO (One course require		CRITICAL THINK of A1, A2, and A3)		In 9 Units
A1 - Oral Communications Spch 100 120	Engl 100 Tr		• A3 - Critical Thinking Engl 165 Phil 103 200 PISc 103 Tr	Progress Completed
NOTE: Areas A1, A2, A3 and B4				
AREA B: NATURAL SCIENC (One course from F Must include one la           B1 - Physical Science           Astr 100           Chem 110* 210* 224* 410*           Geog 100           Geol 100*           NSci 100           Ocen 100           Phys 210* 250* 260* 405 481*	Physical Scient ab course fro B2 - Life Sc Anat 250* Anth 125	nce B1, Life Science I m Area B1 or B2 (ind cience 110* 111* 130 160	*B3 - Lab Course B4 - Math Concepts Math 105 125 130 200 219 220 241 251 †120 †121 Note: †Math 120 & 121 taken Fall 1988 and thereafter	In 9-12 Units Progress Completed B1 B2 B3 B4 Total Completed
AREA C: ARTS, LITERATUF (Three courses to b + Indicates Ethnic S C1 - Arts Art 101 102 103 201 204 214 Dram 101 102 140 Hum 100 IntD 320-321-322 + Mus. 100 131 202 C2 - Literature Dram 142 143 144 151 152 Engl 110 Lit. 101 111 141 142 143 144 231 232 233 251 252 266 341 371 + 372 + 375 + 431 Spch 111 112	e selected fro Studies cours 301 151 152 200 + 301 302	m at least <b>two</b> sub- res <b>C3 - Philosophy</b> Hist 205 Phil 100 160 175 1 <b>C4 - Foreign Langua</b> Fren 110 110 112 1 Germ 110 110 112 1	areas.) 90 240 300 310 320 ges 20 122 130 140 161 162 20 122 20 122 130 140 161 162 f Cultures	ired AREA C In 9-12 Units Progress Completed
Constitution & Am & Local Institutions D1 - American Institutions Econ 230 Hist 102 201 202 242 + 421 PISc 205* 210 D2 - State/Local Institutions Hist 310 315 PISc 205* 310 Tr -	course from l erican Ideals s only for for D3 - Socia Anth 105 Ece. 121 Econ 100 Envr 120 Geog 110	D1 and one course f requirement.) *Fulfi eign students. + Ind <b>I Institutions</b> 110 360* 370* 223 102 120 150 Tr	rom D2 to satisfy U.S. History, Ils American Institutions and S licates Ethnic Studies courses. Hist 422 + PISc 150 Psyc 100 108 110 201 202 278 + 300 340 Soci 100 105 141 + SoSc 100 122 392 Tr	State In Progress 2-12 Units Progress Completed D1 D2 D2 Total Completed American Institutions State/Local Institutions
AREA E: LIFELONG UNDEF Biol 301 312 Crer 137 H.Ec. 310 312 HSci 101 104 105 106 108 Tr _		Any Physical Educatio	MENT: 3 units requi n Course except P.E. 690 or 695 Tr	In 3 Units Progress Completed
				(39 units required) Partially fülfilled

## TRANSFER 33

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

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

Anatomy 250, 680, 690, 695

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

Art 101, 102, 103, 190, 201, 202, 204, 205, 207, 214, 221, 222, 231, 232, 234, 235, 301, 303, 311, 312, 320, 322, 351, 356, 357, 359, 680, 690, 695

Astronomy 100, 680, 690, 695

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

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

Business 101, 103, 115, 131, 150, 180, 201, 235, 400, 401, 402, 403, 404, 405, 410, 413, 414, 415, 416, 430, 431, 432, 434, 436, 438, 670, 690, 695

Career & Personal Development 137, 401, 680

Chemistry 110, 192, 210, 220, 224, 225, 250, 410, 420, 680, 690, 695

Computer Science 103, 115, 151, 155, 157, 162, 170, 172, 190, 275, 670, 680, 690, 695

**Cooperative Education 670** 

Drama 101, 102, 140, 142, 143, 144, 151, 152, 200, 201, 202, 203, 208, 209, 210, 211, 220, 233, 248, 300, 305, 338, 680, 690, 695

Early Childhood Education 191, 201, 210, 211, 212, 213, 223, 230, 240, 241, 243, 311, 313, 670, 680, 681, 682, 690, 695

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

Engineering 100, 200, 220, 230, 260, 270

English:

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

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

Reading 420

English Institute 400

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, 680, 690, 695

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

Health Science 101, 104, 105, 106, 108, 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, 330, 350, 351, 360, 411, 450, 670, 680, 681, 682, 695

Journalism 120, 300, 680, 690, 695

Library 100

Life Science 670

Management 100, 105, 120, 130, 136, 137, 215, 220, 225, 235, 240, 281, 282, 283, 670, 680, 690, 695

Mathematics 105, 125, 130, 200, 219, 220, 241, 242, 251, 252, 253, 275, 680, 690, 695

Microbiology 240, 680, 690, 695

Music 100, 101, 102, 131, 132, 190, 202, 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, 440, 441, 442, 443, 444, 461, 462, 463, 464, 471, 472, 473, 474, 481, 482, 483, 484, 490, 495, 496, 680, 690, 695

Natural Science 100, 680

Oceanography 100, 680

Paleontology 110, 680, 690, 695

Paralegal 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 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, 105, 140, 161, 165, 201, 204, 315, 430, 431, 680

Individual 121, 124, 161, 164, 166, 251, 252, 253, 254, 255, 256, 680

P.E. 115, 116, 200, 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, 140, 141, 150, 151, 170, 171, 680

Physical Science 670, 680, 690, 695

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

Physiology 256, 260, 680, 690, 695

Political Science 103, 150, 205, 210, 310, 680, 690, 695

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

Radiologic Technology 420, 430, 495

Real Estate 100

Social Science 100, 120, 122, 250, 392, 670, 680, 690, 695

Sociology 100, 105, 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, 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)

Anatomy 250 (W/Lab 4)

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

Art 101 (3); 102 (3); 103 (3); \*201 (3); \*202 (3); \*204 (3); \*205 (3); \*207 (3); \*214 (3); \*221 (3); \*222 (3); \*231 (3); \*232 (3); +234 (3); +235 (3); +301 (3); +303 (3); \*320 (3); +351 (3); \*\*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

\*\*Depending upon course content, apply appropriate limitation

Astronomy 100 (3); 680, 690, 695 (See Independent Study)

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

\*No credit for 100 if taken after a college course in Biological Science

Botany 145 (W/Lab 3); 220 (W/Lab 5); 680, 690, 695 (See Independent Study)

Business 201 (3)

Chemistry \*192 (W/Lab 1-4); †210, †220 (W/Lab 5, 5); 224 (W/Lab 4); 225 (W/Lab 4); 250 (W/Lab 4); 680, 690, 695 (See Independent Study)

\*192 must be taken for a **minimum** of 3 units to transfer 110 and 192 combined: maximum credit allowed, one course. No credit for 110 or 192 if taken after 210 or 410.

+210, 220 and 410, 420 combined: maximum credit allowed, one series.

Computer Science 103 (3); \*151 (3); \*155 (3); \*157 (3); \*162 (3); \*170 (3); 172 (3); 190 (3); \*275 (3); 680, 690, 695 (See Independent Study)

\*Any or all of these courses combined: maximum credit allowed, 6 courses.

Cooperative Education 670, maximum credit allowed: 6 units total in appropriate subject areas contingent upon review of course outline by a UC Campus.

Drama 101 (3); 102 (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 (2 each); +248 (2)); +300 (.5-3); +305 (.5-3); +338 (3); \*680, \*690, \*695 (See Independent Study)

\*Any or all of these courses combined with Speech 130: maximum credit allowed, 12 units.

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

\*\*Depending on course content, apply appropriate limitation.

Economics 100, 102 (3, 3); 230 (3); 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); 165 (3)

Literature 101 (3); 111 (3); 141 (3); 142 (3); 143 (3); 144 (3); 151 (3); 152 (3); 200 (3); 231, 232, 233 (3, 3, 3); 251 (3); 252 (3); 266 (3); 301, 302 (3, 3); 341 (3); 371 (3); 372 (3); 375 (3); 431 (3); 680, 690, 695 (See Independent Study)

Environment 120 (3); 680, 690, 695 (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 and 112 combined is equivalent to 110: maximum credit allowed, 5 units.

†121 and 122 combined is equivalent to 120: maximum credit allowed, 5 units.

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

Geology \*100 (3); 680 & 695 (See Independent Study)

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

\*111 and 112 combined is equivalent to 110: maximum credit allowed, 5 units.

t121 and 122 combined is equivalent to 120: maximum credit allowed, 5 units.

Health Science \*104 (1); \*105 (1);

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

#### TRANSFER COURSES

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); \*118 (3); 310 (3) \*maximum credit allowed, 2 courses.

Humanities 100 (3); 680, 690, 695 (See Independent Study)

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

Library Science 100 (1)

Mathematics 125 (3); 200 (4); †219 (5) (maximum credit allowed: 4 units); †220 (3); \*241, \*242 (5, 5); \*251 (5); \*252, 253 (5, 5); 275 (3); 680, 690, 695 (See Independent Study)

\*241, 242 combined with 251, 252: maximum credit allowed, 2 courses.

†219 and 220 combined: maximum credit, 1 course

Microbiology 240 (W/Lab 5); 690, 695 (See Independent Study)

Music 100 (3); 101, 102, (2, 2); 131, 132, (3, 3,); 202 (3); \*301, 302, 303, 304 (2 each); \*305, 306, 307, 308 (2 each); \*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); \*471, 472, 473, 474 (1 each); \*481, 482, 483, 484 (2 each); \*490 (1); \*495 (1-3); \*\*680, \*\*690, \*\*695 (See Independent Study) \*Any or all of these courses combined: maximum credit allowed, 12 units.

\*\*Depending on course content, apply appropriate limitation.

Natural Science 100 (3)

Oceanography 100 (3); 690, 695 (See Independent Study)

Paleontology 110 (3); 680, 690, 695 (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, 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); 695 (See Independent Study)

Dance ‡ 111 (2); ‡ 112 (2); ‡ 115 (2); ‡ 130 (2); ‡ 131 (1); ‡ 132 (2); ‡ 140, 143 (1 – 1.5 each); \*330 (1); \*350 (1); ‡ 400 (2); ‡ 680, ‡ 690, 695 (See Independent Study)

Fitness \*101 through 315 (1 – 3 each); 680, 695 (See Independent Study)

Individual \*121 through 303 (1-3 each); 680, 695 (See Independent Study); 680, 695 (See Independent Study)

Theory \*200 (.5-1); †300 (2)

Team Sports \*101 through 172 (1-2.5 each); 680, 695 (See Independent Study)

Varsity \*100 through 341 (1-2 each); 680, 695 (See Independent Study)

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

tAny 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 680, 690, 695 (See Independent Study)

Physics \*210, \*220 (W/Lab 4, 4); \*250, 260, 270 (W/Lab 4, 4, 4); 680, 690, 695 (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

Physiology \*256 (W/Lab 4): 260 (W/Lab 5); (See Independent Study)

\*256, 260: maximum credit allowed, one course.

Political Science 103 (3); 150 (3); 210 (3); 680, 690, 695 (1 – 3) (See Independent Study)

Psychology 100 (3); ‡ 201 (3); ‡ 202 (3); 278 (3); 300 (3); °340 (1.5-3); 680, 690, 695 (See Independent Study)

201 and 202 combined: maximum credit allowed, 1 course.340 must be taken for a minimum of 3 units to transfer.

Social Science 120 (3); 122 (3); 250 (3); 680, 690, 695 (See Independent Study)

Sociology 105 (3); 141 (3); 680, 690, 695 (See Independent Study)

Spanish 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 and 112 combined is equivalent to 110: maximum credit allowed, 5 units.

†121 and 122 combined is equivalent to 120: maximum credit allowed, 5 units.

Speech Communication 100 (3); 111, 112 (3, 3); \*120 (3); \*130 (3); \*140 (3); 680, 690, 695 (See Independent Study)

\*120 and 140 combined: maximum credit allowed, one course. †Limit 130 with \*Drama courses: maximum credit allowed, 12 units.

Zoology 210 (W/Lab 5); 680, 690, 695 (See Independent Study)

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

# **BASIC & APPLIED** SCIENCES DIVISION

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. 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 preprofessional 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, Micro-biology, 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, Ento-mology, Zoology, Public Health, Medical Technology, etc.) Units

MATH 241, 242 Applied	Analytic	
Geometry & Calculus	10	)
	Chemistry 10	
CHEM 250 Quantitative .	Analysis (Recommended) 4	1

PHYS 210, 220 General Physics	
BIOL 110 Principles of Biology 4	ł
or	
BIOL 130 Human Biology 4	Ł
BOTY 220 General Botany 5	;
ZOOL 210 General Zoology 5	5
Foreign Language 0-12	

## DENTAL HYGIENE

#### **RECOMMENDED TRANSFER PROGRAM**

High School Preparation: Chemistry, Mathematics through	
Trigonometry Uni	
CHEM 210 General Chemistry	5
BIOL 110 Principles of Biology	4
ZOOL 210 General Zoology	5
PSYC 100 — General, Psychology	3
Foreign Language 0-	12
Math 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, Chemis-	
try, Biology, Physics, Foreign Language. Units	
BIOL 110 Principles of Biology 4	
or	
BIOL 130 Human Biology 4	
ZOOL 210 General Zoology 5	
BOTY 220 General Botany 5	
MBIO 240 General Microbiology 5	
CHEM 210, 220 General Chemistry 10	
CHEM 250 Quantitative Analysis 4	
PHYS 210, 220 General Physics 8	

## NURSING

DECOMMENDED TRANSFER PROCE

High School Preparation: Chemistry,	
	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	3
PSYC 100, 201 General, Child	
Development	6

## OPTOMETRY

#### RECOMMENDED TRANSFER PROGRAM

High School Preparation: Chemistry, Physics, Foreign Lan- guage, four years of college preparatory Math. Units MATH 241, 242 Applied Analytic
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 Psychology 3
Foreign Language

## PHARMACY

#### RECOMMENDED TRANSFER PROGRAM

High School Preparation: Physics, Chemistry, four yea college preparatory Math.	rs of Units
MATH 241, 242 Applied Analytic	
Geometry & Calculus	
CHEM 210, 220 General Chemistry	10
CHEM 250 Quantitative Analysis	
PHYS 210, 220 General Physics	8
BIOL 110 Principles	
ZOOL 210 General Zoology	
Foreign Language	0 - 12

## PHYSICAL THERAPY

RECOMMENDED TRANSFER PROGRAM	U	nit	s
BIOL 110 Principles of Biology			4
ANAT 250 Anatomy			
PSIO 260 Human Physiology			5
CHEM 410, 420 Health &			
Science Chemistry		3	8
PHYS 210 General Physics			4

## **PRE-DENTISTRY**

#### RECOMMENDED TRANSFER PROGRAM

High School Preparation: Chemistry, Mathematics through	
Trigonometry Un	its
CHEM 210, 220 General Chemistry	10
CHEM 250 Quantitative Analysis	
(Recommended)	4
PHYS 210, 220 General Physics	8
BIOL 110 Principles of Biology	4
OT OT	
BIOL 130 Human Biology	4
ZOOL 210 General Zoology	
PSYC 100 – General	3
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. Units
CHEM 210, 220 General Chemistry 10
CHEM 250 Quantitative Analysis 4
BIOL 110 Principles of Biology 4
ZOOL 210 General Zoology 5
PHYS 210, 220 General Physics 8
Foreign Language 0-8
MATH 241, 242 Applied Analytic
Geometry & Calculus 10

## 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		10
PHYS 210, 220 General Physics		
BIOL 110 Principles of Biology		4
ZOOL 210 General Zoology		5
Foreign Language		
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 microcomputers.

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 information on this Certificate)

A normal sequence of computer courses for CIS-Computer Science Certificate students is COMP 103, COMP 170, COMP 172, two other programming language courses, and MATH 125.

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

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	Units
COMP 103 Intro. to Programming in using Pascal	
COMP 170 Programming in Pascal	
One Math Course from:	
MATH 125, MATH 200, or MATH 251	3-5
Three of the following courses:	

COMP 155, COMP 162, COMP 175, or COMP 190	
Total CERTIFICATE PROGRAM IN CIS – BUSINESS See MICROCOMPUTER APPLICATIONS CERTIFICATE PROGRAM – AREA B: PROG	18-20 RAMMING
ASSOCIATE IN SCIENCE DEGREE COMPUTER SCIENCE Certificate Core Requirements	Units
(CIS-Computer Science)	20
MATH 200 Statistics	4
not included in the above	
General Education Requirements	
Physical Education	
ASSOCIATE IN SCIENCE DEGREE	
COMPUTER SCIENCE/ENGINEERING	Units
Certificate Core Requirements	20
(CIS-Computer Science)	
ENGR Courses	
MATH 251 & 252 Analyt. Geometry & Calculus .	
PHYS 250 General Physics	
General Education Requirements	
Total	
ASSOCIATE IN SCIENCE DEGREE	
COMPUTER SCIENCE/SOCIAL SCIENCE Certificate Core Courses	Units
(CIS – Core Courses)	
COMP 699 SOSC 100 Survey of the Social Sciences	
(Emphasis is on the impact of computers)	3
MATH 200 Statistics	
SOSC 122 Social Science Research Methods Electives Social Science (Recommended:	
PSYC 100, ECON 100 & SOCI 100)	
Physical Education	
Total	
TRANSFER REQUIREMENTS	
Preparation for the major	
General Education	20
(Cal. State Universities and U.C.) Total electives as needed	

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 consult 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 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 fall meeting of the Engineering Liaison (ELC) Committee in November, 1986.

#### 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.

#### 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)

#### **RECOMMENDED TRANSFER PROGRAM**

Recommended High School Preparation: Mathematics (four years), Chemistry (one year), Physics (one year), Mechanical
Drawing (one year). Units
MATH 251, 252, 253 Analytic
Geometry & Calculus 15
MATH 275 Differential Equations 3
PHYS 250, 260, 270 General Physics
CHEM 210, 220 General Chemistry 10
or
CHEM 224, 225 Engineering Chemistry 8
ENGR 100 Engineering & Environment 2
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

## ENGINEERING

(Technical Program)

#### RECOMMENDED TRANSFER PROGRAM

Recommended High School Preparation: Mathematics years), Chemistry (one year), Physics (one year), Mecha	(for	ur al
	Jni	
ENGR 100 Engineering & Environment		2
MATH 241, 242 Applied Analytic		
Geometry & Calculus	. 1	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	Units
MATH 251, 252, 253 Analytic	
Geometry & Calculus	15
MATH 275 Differential Equations	3
COMP 162 FORTRAN	
PHYS 210, 220 General Physics	4
Foreign Language	0 - 12

## 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

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 4
OPTH 412 Lab Techniques II 4
OPTH 431 Lenses
OPTH 441 Fabrication 2
OPTH 460 Anatomy & Physiology
of the Eye
OPTH 471 Dispensing Techniques I 3-5
OPTH 472 Dispensing Techniques II 3-5
OPTH 491 Contact Lenses I 3.5
OPTH 492 Contact Lenses II 3.5
PHYS 481 Geometric Optics 3
OPTH 670 Co-op. Ed 4-8
BIOL 695 Independent Study 1-3
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 Coast Conference in the following activities: baseball, basketball, golf, tennis. 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	
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	of the
transferring institution for specific requirements for the r	najor.
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 science can serve as preparation for further study in technical fields and serves as an excellent background for professional training in law, business, medicine, or education.

#### CAREER OPPORTUNITIES

Units

Architect, Governmental Agencies, Drug Industry, Food Industry, Computer-Related Occupations, Industrial Electronics, Petroleum Industry, Mineral Exploration, Land Use Planning, Construction and Manufacturing, Radiation Physicist, Meteorology, Energy Management.

## ARCHITECTURE

RECOMMENDED TRANSFER PROGRAM	Unit	s
COMP 155, 162 BASIC, FORTRAN	3-1	6
*MATH 241, 242 Applied Analytic		
Geometry & Calculus	. 10	0
*PHYS 210, 220 General Physics	1	8
Foreign Language	0-1.	2
ENGR 111 Surveying (CSM)		3
ENGR 100 Engineering		
& Environment		2
ENGR 220 Graphics		2

\*Math 251, 252, 253, and Physics 250, 260, 270 sequence in place of Math 241, 242 and Physics 210, 220 are recommended for those contemplating transfer to California State Polytechnic Colleges.

## CHEMISTRY

RECOMMENDED TRANSFER PROGRAM	Un	its
MATH 251, 252, 253 Analytic		
Geometry & Calculus		15
MATH 275 Ordinary Differential Equations		
PHYS 250, 260, 270 General Physics		12
CHEM 210, 220 General Chemistry		10
CHEM 250 Quantitative Analysis		5
Foreign Language	0-	12

## **ELECTRONICS**

RECOMMENDED TRANSFER PROGRAM		
ENGR 100 Engineering & Environment	7	2
ENGR 260 Circuits & Devices	3	3
MATH 251, 252, 253 Analytic		
Geometry & Calculus	15	5
COMP 162 FORTRAN	3	3
PHYS 250, 260, 270 General Physics	. 17	2
CHEM 210, 220 General Chemistry	10	)
BUS 100 Survey of Business	3	3

## **INDUSTRIAL ARTS**

RECOMMENDED TRANSFER PROGRAM MATH 220 Pre-Calculus	Units
College Algebra CHEM 410 Health Science Chemistry PHYS 210 General Physics ENGR 200 Descriptive Geometry	4
The following may be required depending on transfer so PHYS 220 General Physics CHEM 420 Health Science Chemistry	:hool:

## **OCEANOGRAPHY**

# **RECOMMENDED TRANSFER PROGRAM** High School Preparation: Chemistry, Physics, four years of college prep Math. Units \*MATH 251, 252, 253 Analytic Geometry & Calculus \*MATH 251, 252, 253 Analytic Geometry & Calculus 15 \*CHEM 210, 220 General Physics 10 \*PHYS 250, 260, 270 General Physics 12 \*BIOL 110 Principles 4 ZOOL 210 General Botany 5 MATH 200 Elem. Probability & Statistics 4 \*(Minimum requirements — Humboldt State Univ.) 4

## PHYSICS

#### **RECOMMENDED TRANSFER PROGRAM**

High School Preparation: Physics, C college preparatory Math. MATH 251, 252, 253 Analytic	Chemistry,	
Geometry & Calculus		 15
MATH 275 Differential Equations		
COMP 162 FORTRAN		
CHEM 210, 220 General Chemistry		 10
PHYS 250, 260, 270 General Physics .		 12

## RADIOLOGIC TECHNOLOGY (X-Ray Technology)

# Associate in Science Degree with a Major in Radiologic Technology

Completion of the program enables the student to write the examination given by the American Registry of Radiologic Technologists and the certification examination for licensure required by the State of California. Basic science and general education courses are given on the Cañada campus, with concurrent clinical education at one of the affiliating hospitals.

Prerequisites: High school graduation or equivalent and written entrance examination as administered by Cañada College. Completion of a course in algebra within three years, a course in Chemistry or Physics with laboratory, and Biology with laboratory.

In addition to the College admission application, all students seeking entrance to the Radiologic Technology 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

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

REQUIRED CURRICULUM	Units
ANAT 250 Anatomy* PHYS 405 Radiation	
MATH 410 Math for Technology*	
ENCL 100 Composition*	
ENGL 100 Composition*	******* J
PSIO 256 Principles of Physiology	4
RADT 495 Nursing for	-
Radiographers	2
RADT 400 Orientation	3
RADT 410 Positioning	3
RADT 430 Radiation Health	
& Protection	4
RADT 440 Advanced Techniques	
General Education	9
Physical Education	2
A grade of "C" or better is necessary for progres	sion in the
sequence.	oron mi mic
RADT 418, 428, 438, 448, 458	
These are Clinical Education Labs which total 2,000	hours and
	nours and
accompany Radiological Technology courses.	

\*May be used to satisfy general education requirements for the A.S. Degree.

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 Interior Design Management Microcomputer Applications Microcomputer Technician Office Management\* Office Skills\* Paralegal Philosophy Political Science Psychology Social Science Sociology Tourism Word/Information Processing\* \* See Business/Office Skills.

## ACCOUNTING

The Business Department offers a transfer curriculum to a four-year university, an A.S. Degree and a certificate program designed to give the students both formal and practical training in accounting. The accounting 4-year college/university 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 - 29.5 units. 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, who have had no accounting experience, or who 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 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 sectors and in other 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, and general ledger and payroll supervisors. These opportunities offer a wide range of salaries and job advancement.

TRANSFER PROGRAM Same as Business Administration.	
ACCOUNTING CERTIFICATE PROGRAM Core Requirements ACTG 100 Accounting Procedures or ACTG 121 Financial Accounting ACTG 190 Computerized Accounting ACTG 212 Manufacturing Accounting or	Units Units 3-5 3
ACTG 131 Managerial Accounting ACTG 180 Payroll & Business Taxes BUS. 100 Survey of Business BUS. 430 Microcomputer Application I BUS. 431 Microcomputer Application II BUS. 434 Microcomputer Spreadsheet Electives: Total	. 1.5 3 . 1.5 . 1.5 3 6
A.S. DEGREE ACCOUNTING Certificate Core Requirements 2 Gen. Education Requirements 12 Electives: 12	Units 4-29.5 18 .5-18
SUGGESTED ELECTIVES BUS. 201 Business Law BUS. 401 Business Communications BUS. 670 Cooperative Education ACTG 171 Individual Federal Income Tax Procedures BUS. 103 Intro. to Bus. Computer Systems BUS. 436 Microcomputer Database Management BUS. 438 Microcomputer Graphics & Desktop Publishing ACTG 670 Cooperative Education	3 1-4 3 3 3

## 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 ANTH 105 Peoples and Cultures	Un	its
of the World		3
ANTH 110 Cultural Anthropology		3
ANTH 125 Physical Anthropology		3
*ANTH 360 Indians of North America		3
*ANTH 370 Pre-Columbian Peoples & Cultures		
of Mexico & Central America		3
BIOL 110 Principles of Biology		4
BIOL 130 Human Biology		3
GEOG 100 Physical Environment		3
GEOL 100 Survey of Geology		3

MATH 200 Elementary	Probability & Statistics	 4
PALE 100 Ancient Life	& Past Environments	 2.0

#### 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. Twenty-one units of General Education, 2 units of Physical Education and a major are required. The major in Anthropology consists of a minimum of 18 semester units in the 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. The minimum of 18 units must be selected from the RECOMMENDED TRANSFER PRO-GRAM.

\*May be used for major OR Ethnic Studies requirement.

## BUSINESS ADMINISTRATION

The Business 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 listed is the same for all business disciplines at four-year colleges and universities. The A.S. Degree and the Certificate Program are designed to help a student develop a general business awareness for the world of work, or a four-year college or university. Courses specifically required for the student's major transfer and/or certificate core requirements 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 extremely diverse. The general nature of the courses offers a student an opportunity to work in almost any business discipline: sales, marketing, public relations, and personnel.

#### RECOMMENDED TRANSFER PROGRAM PREPARATION FOR MAJOR

Please consult your counselor and the catalog of the university
or college you wish to attend for specific requirements.
ACTG 121 Financial Accounting 4-5
ACTG 131 Managerial Accounting 4-5
BUS. 103 Intro. to Bus. Computer Systems 3
BUS. 201 Business Law
ECON 100 Princ. of Macro Economics
ECON 102 Princ. of Micro Economics 3
MATH 125 Elem Finite Math* 3
MATH 200 Statistics 4
MATH 241 Applied Anal.
Geometry and Calculus* 5
MATH 242 Applied Anal.
Geometry and Calculus* 5

\*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 FROM RECOMMENDED PROGRAM	TRANSFER Units
From the recommended transfer list	18
P.E. Electives: Other courses from the recommended t certificate program	transfer list or
Total	

CERTIFICATE PROGRAM —		
BUSINESS ADMINISTRATION	Uni	ts
ACTG 121 Financial Accounting	. 4	-5
BUS. 100 Survey of Business		3
BUS. 101 Human Relations		
in Business		3
BUS. 103 Intro. to Bus. Computer Systems		3
BUS. 115 Business Math or		
MATH 120 Interm. Algebra & Review	3-	-5
BUS. 201 Business Law		3
BUS. 401 Business Communications		3
BUS. 434 Microcomputer Spreadsheet		
Total	25 - 2	28
A.S. DEGREE - BUSINESS ADMINISTRATION -		
CERTIFICATE PROGRAM	Uni	ts

CERTIFICATE PROGRAM	Units
Certificate Core Requirements	25 - 28
General Education Requirements	18
P.E	2
Electives	
Total	
Select From:	
ACTG 131 Managerial Accounting	4-5
BUS. 180 Marketing	3
BUS. 235 Techniques of Supervision	3
BUS. 403 WP: Letter Formats	. 1-3
BUS. 404 WP: Report Formats	. 1-3
BUS. 430 Microcomputer Applications I	1.5
BUS. 431 Microcomputer Applications II	1.5
BUS. 436 Microcomputer Database Management	3
ECON 100 Princ. of Macro Economics	3
ECON 102 Princ. of Micro Economics	3
Courses from the recommended transfer list	

## BUSINESS/ OFFICE SKILLS

Units

The Business Department prepares students for both entrylevel positions and management positions in the automated office. Students are prepared to plan, develop, organize, and distribute information through the application of computer/ electronic technology. A.S. Degree and certificate programs are offered by the College. Courses specifically required for the student's major must be evaluated by a letter grade, not by the credit (CR) grade.

#### **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 all types of organizations and industries—large or small, public or private.

#### **OPTION ONE**

## 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 Skills Certificate option or equivalent training or experience.

ACTG 100 Principles of Accounting	Units
or ACTG 121 Financial Accounting BUS. 101 Human Relations in Business BUS. 103 Introduction to Bus. Computer Systems BUS. 201 Business Law BUS. 430 Microcomputer Applications I BUS. 431 Microcomputer Applications II ECON 100 Principles of Macro Economics ECON 102 Principles of Micro Economics MGMT 225 Office Management	3 3 1.5 1.5 3 3
MGMT 235 Techniques of Supervision	
Total	., 25-26
A.S. DEGREE – ADMINISTRATIVE ASSISTANT	
CORE REOUIREMENTS	Units
Certificate Core Requirementss General Education Requirements SUGGESTED ELECTIVES BUS. 100 Survey of Business	24-26 18 16-18 3
Certificate Core Requirementss General Education Requirements SUGGESTED ELECTIVES BUS. 100 Survey of Business BUS. 115 Business Mathematics BUS. 415 Typewriting/Keyboarding BUS. 430 Microcomputer Applications I BUS. 431 Microcomputer Applications I	
Certificate Core Requirementss General Education Requirements SUGGESTED ELECTIVES BUS. 100 Survey of Business BUS. 115 Business Mathematics BUS. 415 Typewriting/Keyboarding BUS. 430 Microcomputer Applications I BUS. 431 Microcomputer Applications I BUS. 434 Microcomputer Spreadsheet BUS. 436 Microcomputer Data Base Mgmt. BUS. 438 Microcomputer Graphics & Desktop Publish	
Certificate Core Requirementss General Education Requirements SUGGESTED ELECTIVES BUS. 100 Survey of Business BUS. 115 Business Mathematics BUS. 415 Typewriting/Keyboarding BUS. 430 Microcomputer Applications I BUS. 431 Microcomputer Applications I BUS. 434 Microcomputer Applications II BUS. 436 Microcomputer Spreadsheet BUS. 436 Microcomputer Graphics & Desktop Publish BUS. 438 Microcomputer Graphics & Desktop Publish BUS. 670 Cooperative Education ACTG 190 Computerized Accounting	
Certificate Core Requirementss General Education Requirements SUGGESTED ELECTIVES BUS. 100 Survey of Business BUS. 115 Business Mathematics BUS. 415 Typewriting/Keyboarding BUS. 430 Microcomputer Applications I BUS. 431 Microcomputer Applications I BUS. 434 Microcomputer Spreadsheet BUS. 436 Microcomputer Data Base Mgmt. BUS. 438 Microcomputer Graphics & Desktop Publish BUS. 670 Cooperative Education	

#### **OPTION TWO**

#### **CERTIFICATE PROGRAM — OFFICE SKILLS**

The Office Skills option is for individuals who wish employment as receptionists and/or general office workers.

CORE REQUIREMENTS	Units
BUS. 101 Human Relations in Business	3
BUS. 400 Business English	3
BUS. 401 Business Communications	3
BUS. 402 WP: Machine Transcription	
BUS. 403 WP: Letter Formats	
or ,	
BUS. 404 WP: Report Formats	1-3
BUS. 410 Office Internship	1-3
BUS. 416 Office Skills & Procedures	
BUS. 430 Microcomputer Applications I	
BUS. 431 Microcomputer Applications II	. 1.5
BUS. 434 Microcomputer Spreadsheet	3
Total	19-27

#### A.S. DEGREE - OFFICE SKILLS

CORE REQUIREMENTS	Units
Certificate Core Requirements	
General Education Requirements	
Electives	15-21
SUGGESTED ELECTIVES	Units
ACTG 100 Accounting Procedures	. 3-4
BUS. 110 Business Arithmetic	
or	
BUS. 115 Business Mathematics	
BUS. 415 Intro. Typewriting/Keyboarding	. 2-3
BUS. 432 Microcomputer Word Processing	3

BUS. 100 Survey of Business BUS. 103 Introduction to Bus. Computer Systems	3
OPTION THREE	
CERTIFICATE PROGRAM OFFICE MANAGEMENT The Office Management option is for individuals who employment as office managers and other supervisory po in offices.	o wish sitions
CORE REQUIREMENTS BUS. 101 Human Relations in Business BUS. 400 Business English BUS. 401 Business Communications BUS. 403 WP: Letter Formats or	3
BUS. 404 WP: Report Formats BUS. 430 Microcomputer Applications I BUS. 431 Microcomputer Applications II MGMT 100 Management Theory MGMT 220 Organizational Behavior MGMT 225 Office Management or	1.5
MGMT 235 Techniques of Supervision	22-24
A.S. DEGREE - OFFICE MANAGEMENT	
CORE REQUIREMENTS Certificate Core Requirements General Education Requirements Electives	18
SUGGESTED ELECTIVES ACTG 100 Accounting Procedures BUS. 100 Survey of Business BUS. 103 Introduction to Bus. Computer Systems BUS. 115 Business Mathematics BUS. 201 Business Law BUS. 415 Intro. Typewriting/Keyboarding BUS. 434 Microcomputer Spreadsheet BUS. 436 Microcomputer Data Base Mgmt. BUS. 438 Microcomputer Graphics & Desktop Publishing BUS. 670 Cooperative Education	. 3-4 3 3 3 3 3 3 3

 BUS. 436 Microcomputer Data Base Mgmt.
 3

 BUS. 670 Cooperative Education
 1-4

#### CERTIFICATE PROGRAM WORD/INFORMATION PROCESSING

processing equipment are used.

WORD/INFORMATION PROCESSING

**OPTION FOUR** 

CERTIFICATE PROGRAM

BUS. 101 Ĥuman Relations in Business BUS. 400 Business English BUS. 401 Business Communications	
or BUS. 402 WP: Machine Transcription BUS. 403 WP: Letter Formats	$     \begin{array}{r}       1 - 3 \\       1 - 3     \end{array}   $
BUS. 404 WP: Report Formats BUS. 410 Office Internship BUS. 430 Microcomputer Applications I BUS. 431 Microcomputer Applications II BUS. 432 Microcomputer Word Processing	3 1.5 1.5

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 where text-editing and information

BUS. 434 Microcomputer Spreadsheet	
A.S. DEGREE – WORD PROCESSING	
CORE REQUIREMENTS	Units

Certificate Core Requirements 21	
General Education Requirements	. 18
Electives 1	

#### SUGGESTED ELECTIVES

BUS. 103 Intro. to Bus. Computer Systems
BUS. 415 Intro. Typewriting/Keyboarding 2-3
BUS. 405 WP: Skill Building 1-3
BUS. 401 Business Communications
BUS. 410 Office Internship 1-3
BUS. 416 Office Skills 3
BUS. 436 Microcomputer Data Base Mgmt 3
BUS. 438 Microcomputer Graphics & Desktop Publishing 3
BUS. 450 Office Automation: Minicomputer Altern 3
BUS. 670 Cooperative Education 1–4

## 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.

#### A.S. DEGREE - EARLY CHILDHOOD EDUCATION

CORE REQUIREMENTS	Uni	its
PSYC 201 Child Development	 	3
ECE. 210 Early Childhood Education		
Principles	 	3
ECE. 211 Early Childhood Education		
Curriculum	 	3
FCF 212 Child Family and Community		3

In addition, 12 units selected from the Certificate program.

#### CERTIFICATE PROGRAM IN EARLY CHILDHOOD EDUCATION

Any of the following courses may be selected for a total of 24 units: (ECE. 201, 210, 211, and 212 are required for state certification).

#### CORE REQUIREMENTS Units

ECE. 201 Child Development 3
ECE. 210 Early Childhood Education
Principles 1-3
ECE. 211 Early Childhood Education
Curriculum 1–3
ECE. 212 Child, Family and Community 3
PSYC 221 The Special Child 3
ECE. 223 Infant Behavior
ECE. 230 Creative Activities for the Young Child 3
ECE. 240* Early Childhood Education
Administration I (business/legal)
ECE. 241 Early Childhood Education
Administration II (human relations)
ECE. 243 Microcomputers in Early Child. Ed 3
ECE. 245 Teaching & Management
Internship I
ECE. 246 Teaching & Management Internship II
ECE. 311 Nutrition for Young Children
ECE. 313 Health and Safety for Young Children
ECE. 670 Cooperative Education
ECE. 680 Special Topics in ECE
ECE. 690 Special Project
LIT. 191 Children's Literature
PSYC 201 Child Development 3
PSYC 221 The Special Child
PSYC 223 Infant Behavior 3
PSYC 391 Parenting 3
ART/MUS. 190 Fine Arts for Children 3
BIOL 111 Nature Study 3
*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 requires:

- 24 semester units of Early Childhood Education/Child Development 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. Stu-dents can fulfill General Education and lower division social science, mathematics, and business electives at Cañada.

	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	
ACTG 131 Managerial Accounting	
HIST 201 United States History I	
Or	
HIST 202 United States History II	3
MATH 200 Probability & Statistics	
MATH 241/242 Applied Anal.	
Geometry & Calculus	
or	
MATH 251/252 Anal. Geometry & Calculus	10
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. Twenty-one units of General Education, 2 units of Physical Education and a major are required. The major in Economics consists of a minimum of 18 semester units in the 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 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. The minimum 18 units must be selected from the RECOMMENDED TRANSFER PROGRAM.

## 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 Ur	its
GEOG 100 Physical Environment	. 3
GEOG 110 Cultural Geography	
GEOG 120 Economic Geography	. 3
GEOG 150 World Regional Geography	. 3
ANTH 110 Cultural Anthropology	. 3
ANTH 125 Physical Anthropology	. 3
ECON 100 Principles of Macro Economics	. 3
ECON 102 Principles of Micro Economics	. 3
GEOL 100 Survey of Geology	. 3
MATH 200 Elementary Probability & Statistics	
MATH 251/252 Anal. Geometry & Calculus	
or	

MATH 241/242 Applied Anal. Geometry & Calculus ..... 10

#### 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. Twenty-one units of General Education, 2 units of Physical Education and a major are required. The major in Geography consists of a minimum of 18 semester units in the 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 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. The minimum 18 units must be selected from the RECOMMENDED TRANSFER PROGRAM.

## 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.

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 fulfill General Education and lower division social science requirements at Cañada.

RECOMMENDED TRANSFER PROGRAM	Units
HIST 100 History of Western Civilization	3
HIST 101 History of Western Civilization	3
HIST 102 History of American Civilization	3
HIST 201 United States History I	3
HIST 202 United States History II	3
*HIST 242 The Afro-American in U.S. History	3
HIST 310 California History	3
HIST 421 History of the Americas	3
*HIST 422 Modern Latin America	3
*HIST 451 Far Eastern Civilization & Heritage	3
*HIST 452 Far Eastern Civilization & Heritage	3
ANTH 110 Cultural Anthropology	3
ECON 100 Principles of Macro Economics	3
ECON 102 Principles of Micro Economics	3
GEOG 100 Physical Environment	3
SOCI 100 Introduction to Sociology	3
*May be used for major OR Ethnic Studies requirement.	

#### 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. Twenty-one units of General Education, 2 units of Physical Education and a major are required. The major in History consists of a minimum of 18 semester units in the 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 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. The minimum 18 units must be selected from the RECOMMENDED TRANSFER PROGRAM.

## 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 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 Un	its
H.E. 111 Techniques of Fit*	3
H.EC 113 Textiles	3
H.EC 115 Intermed. Clothing Construction	
H.EC 310 Nutrition	
H.EC 416 Consumer Decision Making	3
INTD 115 Your Home & Your Environment	3
PSYC 100 General Psychology	3
PSYC 201 Child Development	3
or	
PSYC 212 Child Family and Community	3
Total	
*If no previous clothing construction experience, take H.EC 1	
or 112 before H.EC.111.	
	1

Please consult with your counselor and the catalog of the University or College you wish to attend for specific requirements.

#### 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.

CORE REQUIREMENTS	Units
Textiles and Clothing	9
H.EC 111 Techniques of Fit	
H.EC 115 Intermediate Clothing Construction	
H.EC 117 Fashion Image	
Foods and Nutrition	6
H.EC 310 Nutrition	
H.EC 320 Applied Nutrition (Cooking for Health	1)
Consumer Economics and Management	
H.EC 416 Consumer Decision Making or	
BUS. 131 Money Management	
	3
BUS. 430 Microcomputer Applications I	
BUS. 431 Microcomputer Applications II	
General Education Requirements	
Electives (see counselor for list of suggested	
electives for different interest areas	
of H.Ec.)	
Total	60
A.S. DEGREE IN TEXTILES & CLOTHING Core Requirements same	Units
General Ed. Requirements same as in H.Ec.	

Additional requirements: H.EC 113 Textiles H.EC 118 Flat Pattern Design H.EC 123 Intro. to Fashion Industry or	3
H.EC 150 History of Fashion H.EC 120 Creative Clothing Const. Electives Total	3 . 9-11
CERTIFICATE PROGRAM — GENERAL HOME ECONOMICS Core H.EC courses (same as A.S. Degree) Electives in Home Economics Total	6
CERTIFICATE PROGRAM — TEXTILES & CLOTHING	
(Emphasis on custom dressmaking & apparel design) 15 units from Group A: H.EC 110 Beg. Clothing Construction H.EC 111 Techniques of Fit H.EC 112 Knits & Wovens H.EC 113 Textiles H.EC 115 Intermed. Clothing Const. H.EC 116 Advanced Construction/Tailoring H.EC 125 Alterations H.EC 127 Custom Dressmaking H.EC 150 History of Fashion	
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 123 Intro. to Fashion Industry H.EC 124 Art in Clothing H.EC 151 Fashion Merchandising H.EC 410 Management of Time & Resources H.EC 420 Computer Applications/H. Mgt. Selected construction electives, including: H.EC 699 Clothing Construction Lab	3 3 3 3 2 1 0.5-4
BUSINESS CERTIFICATE PROGRAM —	

## **TEXTILES & CLOTHING**

#### CORE REQUIREMENTS

Choice of 15 units from H.EC in the following areas: Textiles H.EC 113 Textiles INTD 170 Fabrics for Interiors	. 3
Fashion H.EC 117 Fashion Image H.EC 123 Intro. to Fashion Industry H.EC 150 History of Fashion H.EC 151 Fashion Merchandising	3-6
Fit and Pattern Design H.EC 111 Techniques of Fit H.EC 118 Flat Pattern Design H.EC 120 Creative Clothing Construction	3-6
Current Topics	5-3
Clothing Construction	3-6

H.EC Electives
Required to take 15 units in Business area:
ACTG 100 Accounting Procedures
ACTG 121 Financial Accounting BUS. 101 Human Relations
BUS. 150 Small Business Management BUS. 430 Microcomputer Applications I
BUS. 431 Microcomputer Applications II BUS. 180 Marketing
Total
SUGGESTED ELECTIVES FOR TRANSFER AND
A.S. DEGREE PROGRAMS Units
H.EC 110 Beg. Clothing Construction 3
H.EC 113 Textiles
H.EC 312 Nutrition/Health/Disease

# H.EC 699 Open Lab for

## **INTERIOR DESIGN**

The Interior Design Department offers programs designed for individuals interested in preparing for careers in the profes-sional fields of interior design, residential and commercial. Included in this program are a transfer program, an A.S. Degree program, a Kitchen and Bath Certificate Program, and four certificated Kitchen and Bath Certificate Program, and four certificated programs to meet the minimum qualifying requirements for the American Society of Interior Designers' Allied 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**

	Units
ART 101 History of Art I	3
ART 102 History of Art II	3
ART 201 Form & Composition I	3
ART 204 Drawing I	3
ART 214 Color	3
INTD 245 Internship	3

#### A.S. DEGREE PROGRAM

Units

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

#### CORE CURRICULUM

(recommended sequence) INTD 115 Your Home & Environment	Ur	nits 3	
INTD 148 Color for Interiors ARCH 110 Basic Architectural Drawing		. 3	
ART 201 Form & Composition			
or ART 301 Design			
or ART 204 Drawing		3	
INTD 125 Detailing Interiors		. 3	
INTD 160 Decorating Techniques INTD 150 History of Interiors		. 3	
INTD 450 Home Furn. Consumer (Fall only)		. 3	

INTD 147 Space Planning 3
INTD 330 Architectural Inter. Detailing 3
INTD 146 Graphics for Interiors
INTD 170 Fabrics for Interiors (Spring only) 3
INTD 250 Professional Practices
INTD 245 Internship in Home Furnishings 1
Total
General Education Requirements
P.E 2
Total

#### CERTIFICATE PROGRAMS

#### 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 allied membership in A.S.I.D.

#### CORE REQUIREMENTS

(recommended sequence)	Units
INTD 260 Fundamentals of Lighting (Spring only)	
ART 103 History of Modern Art	
INTD 156 Portfolio/Projects (Spring only)	3
INTD 245 Internship (any time after	
1st Semester)	1
INTD 271 Bath Design	3
INTD 340 Cabinetry & Furniture Design	3
INTD 350 Commercial Design (Fall Only)	3
INTD 351 Advanced Commercial Design (Spring Only) . INTD 356 Residential and Commercial Const. (Fall Only)	3
INTD 360 Computers for Interior Design (CAD)	3
Electives	
Total	
Total	
Total ELECTIVES (Recommended)	30 Units
Total ELECTIVES (Recommended) ART 214 Color ART 231 Watercolor	Units
Total ELECTIVES (Recommended) ART 214 Color ART 231 Watercolor BUS. 430 Microcomputer Applications I	Units 3 3 3 1.5
Total ELECTIVES (Recommended) ART 214 Color ART 231 Watercolor BUS. 430 Microcomputer Applications I INTD 180 Contract Design	Units 
Total ELECTIVES (Recommended) ART 214 Color ART 231 Watercolor BUS. 430 Microcomputer Applications I INTD 180 Contract Design INTD 270 Kitchen Design	Units 3 3 3 3 3 3 3
Total ELECTIVES (Recommended) ART 214 Color ART 231 Watercolor BUS. 430 Microcomputer Applications I INTD 180 Contract Design INTD 270 Kitchen Design INTD 274 Remodeling Construction	30 Units 3 3 3 3 3 3
Total ELECTIVES (Recommended) ART 214 Color ART 231 Watercolor BUS. 430 Microcomputer Applications I INTD 180 Contract Design INTD 270 Kitchen Design INTD 274 Remodeling Construction INTD 278 Marketing & Salesmanship	Units 3 3 3 3 3 3 3 3
Total ELECTIVES (Recommended) ART 214 Color ART 231 Watercolor BUS. 430 Microcomputer Applications I INTD 180 Contract Design INTD 270 Kitchen Design INTD 270 Kitchen Design INTD 274 Remodeling Construction INTD 278 Marketing & Salesmanship INTD 320 Oriental Art/China & Korea	30 Units 3 1.5 3 3 3 3 3 3 3 3 3 1
Total ELECTIVES (Recommended) ART 214 Color ART 231 Watercolor BUS. 430 Microcomputer Applications I INTD 180 Contract Design INTD 270 Kitchen Design INTD 274 Remodeling Construction INTD 274 Remodeling Construction INTD 278 Marketing & Salesmanship INTD 320 Oriental Art/China & Korea INTD 321 Oriental Art/Japan & S.E. Asia	
Total ELECTIVES (Recommended) ART 214 Color ART 231 Watercolor BUS. 430 Microcomputer Applications I INTD 180 Contract Design INTD 270 Kitchen Design INTD 270 Kitchen Design INTD 274 Remodeling Construction INTD 278 Marketing & Salesmanship INTD 320 Oriental Art/China & Korea	30 Units 3 1.5 3 3 3 3 3 1 1

# CERTIFICATE PROGRAM/WITH EARNED A.S. DEGREE IN INTERIOR DESIGN/RESIDENTIAL

For students who have completed an A.S. Degree in Interior Design at Cañada College, this certificate may be applied toward an allied membership in A.S.I.D.

#### CORE REQUIREMENTS

(recommended sequence)	nits
INTD 245 Internship in Home Furnishing	 . 1
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 260 Fundamentals of Lighting (Spring Only)	 . 2
INTD 270 Kitchen Design	
ART 103 History of Modern Art	 . 3
INTD 340 Cabinetry & Furniture Design	 . 3
INTD 180 Contract Design (Fall Only)	 . 3
or	
INTD 350 Commercial Design (Fall Only)	 . 3
INTD 250 Professional Practices	 . 3
INTD 156 Portfolio/Projects (Spring Only)	 . 3
INTD 278 Marketing & Salesmanship	 . 3
Electives	
Total	 30

	Jn		
ART 214 Color	+ -		3
ART 231 Watercolor			3
BUS. 430 Introduction to			
Microcomputer Applications I		1.	5
INTD 271 Bath Design			3
INTD 274 Remodeling Construction			3
INTD 276 Adv. Kitchen & Bath Design			3
INTD 411 Home Decorating			3
INTD 670 Coop. Education			
INTD 690 Individual Projects			

## CERTIFICATE PROGRAM IN INTERIOR DESIGN/

**RESIDENTIAL WITH EARNED B.A OR B.S. DEGREE** For students who have completed a B.A. or B.S. Degree in other disciplines. This certificate may qualify the student for an allied membership in A.S.I.D.

#### CORE REQUIREMENTS (recommended sequence)

(recommended sequence)	U	nits
INTD 115 Your Home & Environment	 	. 3
INTD 148 Color for Interiors		
ARCH 110 Basic Architectural Drawing	 	. 3
ART 201 Form & Composition		

#### ART 204 Drawing

10

or

ART 301 Design 3
INTD 125 Detailing Interiors
INTD 150 History of Interiors 3
INTD 450 Home Furn. Consumer (Fall only) 3
INTD 330 Architectural Inter. Detailing
INTD 147 Space Planning
INTD 170 Fabrics for Interiors (Spring only) 3
INTD 278 Marketing & Salesmanship
INTD 146 Graphics for Interiors
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
INTD 180 Contract Design (Fall only)
or
INTD 350 Commercial Design (Fall Only) 3
INTD 156 Portfolio/Projects (Spring only)
INTD 245 Internship
INTD 270 Kitchen Design
INTD 271 Bath Design

#### CERTIFICATE PROGRAM IN INTERIOR DESIGN/ COMMERCIAL DESIGN

For students who have completed a B.A. or B.S. Degree in other disciplines. This certificate may qualify the student for allied membership in A.S.I.D.

#### CORE REQUIREMENTS

(recommended sequence)	Unit	s
INTD 115 Your Home & Environment		3
INTD 148 Color for Interiors	2	3
ARCH 110 Basic Architectural Drawing	3	3
ART 201 Form & Composition		
OF TOTAL D		
ART 204 Drawing		
OF APT 201 Design		-
ART 301 Design		2
INTD 125 Detailing Interiors INTD 150 History of Interiors		2
invite ise instery of interiors		,

INTD 450 Home Furn. Consumer (Fall only)	3
INTD 330 Architectural Inter. Detailing	3
INTD 147 Space Planning	3
INTD 170 Fabrics for Interiors (Spring only)	3
INTD 146 Graphics for Interiors	3
INTD 260 Fundamentals of Lighting (Spring only)	2
ART 103 History of Modern Art	3
INTD 250 Professional Practices	3
INTD 156 Portfolio/Projects (Spring only)	3
INTD 245 Internship	
INTD 271 Bath Design	3
INTD 350 Commercial Design (Fall Only)	3
INTD 351 Advanced Commercial Design (Spring Only)	3
INTD 356 Residential & Commercial Const. (Fall Only)	3
INTD 360 Computers for Interior Design (CAD)	3
Total	0

## CERTIFICATE PROGRAM IN INTERIOR DESIGN/

#### **KITCHEN & BATH PLANNING**

For those students who wish preparation to enter the special field of kitchen and bath design and remodeling.

#### CORE REQUIREMENTS (recommended sequence)

-					2	
н	3	т	٠	Ŧ	t	5
~	۲	۰	8	۰	٠	2

INTD 115 Your Home & Environment 3	
INTD 270 Fundamentals of Kitchen Design	
ARCH 110 Basic Architect. Drawing 3	
INTD 148 Color for Interiors	
INTD 146 Graphics for Interiors 3	
INTD 274 Remodeling Construction 3	
INTD 245 Internship in Home Furnishing 1	
INTD 260 Fundamentals of Lighting 2	
INTD 276 Adv. Kitchen & Bath Design 3	
INTD 278 Marketing & Salesmanship 3	
INTD 250 Professional Practices 3	
INTD 271 Bath Design 3	
Total	

#### CERTIFICATE PROGRAM IN INTERIOR DESIGN/ PROFESSIONAL KITCHEN & BATH DESIGN

For those students who wish professional preparation to enter the special field of kitchen and bath design and remodeling.

#### CORE REQUIREMENTS

(recommended sequence) Units	
ARCH 110 Basic Architecture Drawing 3	
BUS. 430 Microcomputer Applications 1 1.5	
BUS. 431 Microcomputer Applications II 1.5	
INTD 115 Your Home & Environment	
INTD 125 Detailing Interiors 3	
INTD 146 Graphics for Interiors	
INTD 148 Color for Interiors	
INTD 245 Internship in Home Furnishings 1-3	
INTD 260 Fundamentals of Lighting 2	
INTD 270 Kitchen Design 3	
INTD 271 Bath Design 3	
INTD 274 Remodeling Construction 3	
INTD 276 Adv. Kitchen & Bath Design 3	
INTD 278 Marketing & Salesmanship 3	
INTD 356 Residential & Commercial Const. (Fall Only) 3	
INTD 370 Construction Estimating 3	
Electives:	
Total	
Recommended Electives:	
ACTG 100 Accounting Procedures 3	
INTD 147 Interior Space Planning 3	
INTD 330 Architectural Interior Detailing 3	
INTD 340 Cabinetry & Furniture Design 3	
INTD 360 Computer for Interior Design 3	
INTD 450 Home Furnishing Consumer 3	

## 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: general management and public administration. 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. Management for both the governmental and business organizations are presented in the programs. 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 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.

GENERAL MANAGEMENT CERTIFICATE	
CORE REQUIREMENTS	Units
MGMT 100 Management Theory	3
MGMT 120 Management Communication	3
MGMT 215 Management of Human Resources	3
MGMT 235 Techniques of Supervision	3
Plus, select 12 units	
rom the following:	12
Total	24
Any Management course	1-12
MGMT 670 Cooperative Education	1-4
ACTG 121 Financial Accounting	
ACTG 131 Managerial Accounting	
BUS. 101 Human Relations BUS. 103 Intro. to Bus. Computer Systems	
3US. 415 Introd. Keyboarding/Typewriting	
3US. 430 Microcomputer Applications I	
3US. 431 Microcomputer Applications II	
BUS. 432 Microcomputer Word Processing	
3US. 434 Microcomputer Spreadsheet	
BUS. 436 Microcomputer Data Base Mgmt.	
BUS. 438 Microcomputer Graphics & Desktop Publish	ung
· · · · · · · · · · · · · · · · · · ·	0
A.S. DEGREE General Management	Units
Core Requirements	
General Educ. Requirements & P.E.	20
Electives	16
PUBLIC ADMINISTRATION CERTIFICATE	
CORE REQUIREMENTS	Units
MGMT 120 Management Communication	
MGMT 235 Techniques of Supervision	
MGMT 281 Public Administration Management MGMT 283 Personnel Administration	
Plus, select <b>12</b> units	
from the following:	12
Total	24
10101	

Any Management course	1-12
MGMT 670 Cooperative Education	1-4
ACTG 121 Financial Accounting	
ACTG 131 Managerial Accounting	
BUS. 103 Intro. to Bus. Computer Systems	
BUS. 415 Intro. to Keyboarding	
BUS. 430 Microcomputer Applications I	
BUS. 431 Microcomputer Applications II	
BUS. 432 Microcomputer Word Processing	
BUS. 434 Microcomputer Spreadsheet	
BUS. 436 Microcomputer Database Management	
BUS. 438 Microcomputer Graphics & Desktop Pub.	
PLSC 310 California State & Local Government	
A.S. DEGREE	
PUBLIC ADMINISTRATION	Units

rebere administration	Uni	13
Core Requirements	 2	24
General Educ. Requirements & P.E.	 2	20
Electives		

## 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 management, word processing, spreadsheet, telecommunications, and graphics. The computer can be used as a tool in business, education, and/or at home.

Students may custom design the certificate program by choosing electives from one of three areas: business/accounting; business/office skills and/or programming.

If you are interested in earning an A.S. degree, you should consult your counselor immediately after enrolling in the certificate program.

Courses specifically required for the student's major (core certificate requirements) must be evaluated by a letter grade, not by the credit (CR) grade.

#### 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	C
BUS. 101 Human Relations in Business	3	A
BUS. 415 Introd. Keyboarding/Typewriting	. 1-3	
BUS. 430 Microcomputer Applications I	1.5	F
BUS. 431 Microcomputer Applications II	. 1.5	C
BUS. 432 Microcomputer Word Processing	3	0
BUS, 434 Microcomputer Spreadsheet	3	(
BUS. 436 Microcomputer Data Base Mgmt.	3	0
BUS. 438 Microcomputer Graphics & Desktop Pub	3	0
Electives: Choose one Area, i.e. A or B, or C,		è
and complete 9 units from that area	9	
Total		-

ACTG 100 Accounting Procedures ACTG 121 Financial Accounting ACTG 121 Financial Accounting ACTG 131 Managerial Accounting ACTG 171 Indiv. Federal Income Tax Procedur ACTG 180 Payroll & Business Taxes ACTG 190 Computerized Accounting BUS. 100 Survey of Business ECON 100 Principles of Macro Economics ECON 102 Principles of Micro Economics	res	3-5 4-5 4-5 3 3 3 3
AREA B: PROGRAMMING COMP 151 Intro. to COBOL Programming COMP 155 BASIC Programming COMP 162 FORTRAN Programming in Pascal . COMP 170 Intro. to Programming in Pascal . COMP 190 Intro. to C Programming COMP 275 Assembly Language Programming BUS. 103 Intro. to Bus. Computer Systems		Units 3 3 3 3 3 3 3 3 3 3
AREA C: BUSINESS/OFFICE		

SKII		nits
BUS. 100	Survey of Business	. 3
BUS. 115	Business Mathematics	. 3
BUS. 400	Business English	. 3
BUS. 401	Business Communications	. 3
BUS. 402	WP: Machine Transcription or	
BUS. 413	Shorthand for the Electronic Office 1	-3
BUS. 410	Office Internship 1	-3
BUS. 416	Basic Office Skills	3

#### A.S. DEGREE MICROCOMPUTER APPLICATIONS

CORE REQUIREMENTS	Units
Certificate Core Requirements	28 - 30
General Education Requirements	18
Electives	12-14

## 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
CTEC 420 Direct & Alternating Current
Fundamentals
CTEC 440 Semiconductor Devices & Circuits 2.5
CTEC 460 Digital Devices & Circuits 5
CTEC 500 Microprocessor Principles 3.5
CTEC 520 Microprocessor Interfacing
Applications

General Education Require				
Electives	******	 	 	19.
Total		 	 	6

#### CERTIFICATE PROGRAM MICROCOMPUTER TECHNICIAN

	CHILLO
CTEC 400 Technical Calculations & Study Skills	3
CTEC 420 Direct & Alternating Current	
Fundamentals	
CTEC 440 Semiconductor Devices & Circuits	2.5
CTEC 460 Digital Devices & Circuits	5
CTEC 500 Microprocessor Principles	3.5
CTEC 520 Microprocessor Interfacing Applications	3.5
Total	22.5

## **OFFICE SKILLS**

See BUSINESS/OFFICE SKILLS

## PARALEGAL

The Paralegal Program at Cañada was developed in cooperation with the San Mateo County Bar Association and the San Mateo County Legal Secretaries Association to train personnel to assist attorneys in both civil and criminal matters. Instruction centers on assisting the attorney in interviewing clients and preparing for court appearances, as well as doing legal research and preparing legal documents. Courses specifically required for the student's major (core certificate requirements) must be evaluated by a letter grade, not by the credit (CR) grade. The certificate and degree programs are offered only during

The certificate and degree programs are offered only during the evening program at the present time. The certificate will be awarded by Canada College upon completion of the required courses, plus additional electives totaling a minimum of 27 units. The 27 units earned in the certificate program will fulfill the major requirements for an A.S. degree. instructional process.

#### CAREER OPPORTUNITIES

The paralegal profession offers expanding job opportunities in the Bay Area for persons trained to work in law-related occupations.

#### CERTIFICATE PROGRAM - CORE REQUIREMENTS

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

CORE REQUIREMENTS LEGL 249 Intro. to Legal Systems LEGL 250 Legal Research & Bibliography* LEGL 252 Trial Preparation & Legal Ethics** LEGL 280 Paralegal Internship Plus, select 18 units from the Legal courses: Total	1-3
SUGGESTED ELECTIVES LEGL 251 Torts & Contracts LEGL 253 Probate Administration LEGL 254 Family Law LEGL 255 Corporations & Business Entities LEGL 255 Corporations & Business Entities LEGL 256 Real Estate & Landlord-Tenant LEGL 257 Bankruptcy & Debt Collection LEGL 258 Adv. Trial Preparation** LEGL 260 Adv. Legal Research & Writing** LEGL 260 Adv. Legal Research & Writing** LEGL 801 Paralegal Update Course *Prior to or concurrent with LEGL 249. **LEGL 249 must be taken prior to, not concurrently w	3 3 3 3 3 3 3 3 3 1-4 5-1
course.	

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

#### A.S. DEGREE - PARALEGAL

Core Requirements	27
General Educ. Requirements	18
Electives	15

## PHILOSOPHY

Limite

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

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.

Recontinue to a from to for a from to be a f	Units
PHIL 100 Introduction to Philosophy	3
PHIL 103 Critical Thinking	3
PHIL 160 History of Philosophy-Ancient & Medieval	3
PHIL 175 History of Philosophy-16th to 18th Century	
PHIL 190 Contemporary Philosophy	
PHIL 200 Introduction to Logic	
PHIL 240 Introduction to Ethics	3
PHIL 300 Intro. to World Religions	3
PHIL 310 Philosophy of Religions	3
PHIL 320 Asian Philosophy	
ANTH 110 Cultural Anthropology	
Foreign Language	
HIST 100 History of Western Civilization	
HIST 101 History of Western Civilization	
PSYC 100 General Psychology	

#### 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. Twenty-one units of General Education, 2 units of Physical Education and a major are required. The major in Philosophy consists of a minimum of 18 semester units in the 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 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. The minimum 18 units must be selected from the RECOMMENDED TRANSFER PROGRAM.

## 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 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.

RECOMMENDED TRANSFER PROGRAM Unit	s
PLSC 103 Critical Thinking	3
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	
ECON 102 Principles of Micro Economics	3
Foreign Language	0
HIST 201 United States History 1	3
HIST 202 United States History II	3
HIST 100 History of Western Civilization	3
HIST 101 History of Western Civilization	3
MATH 200 Elementary Probability & Statistics	4

#### 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. Twenty-one units of General Education, 2 units of Physical Education and a major are required. The major in Political Science consists of a minimum of 18 semester units in the 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 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. The minimum 18 units must be selected from the RECOMMENDED TRANSFER PROGRAM.

## 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.

RECOMMENDED TRANSFER PROGRAM	Units
PSYC 100 General Psychology	3
PSYC 300 Social Psychology	3
ANTH 125 Physical Anthropology	3
ANTH 110 Cultural Anthropology	
or	
SOCI 100 Introduction to Sociology	3
BIOL 110 Principles of Biology or	4
CHEM 210 General Chemistry	5
MATH 200 Elem. Probability & Statistics	4
PSIO 260 Human Physiology	5
ZOOL 210 General Zoology	5
07	

#### 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. Twenty-one units of General Education, 2 units of Physical Education and a major are required. The major in Psychology consists of a minimum of 18 semester units in the 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 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. The minimum 18 units must be selected from the RECOMMENDED TRANSFER PROGRAM.

## SECRETARIAL/CLERICAL

See BUSINESS/OFFICE SKILLS

## 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 Un	its
SOCI 100 Introduction to Sociology	3
SOCI 105 Social Problems	
SOSC 120 Intro. to Gerontology	3
*SOCI 141 Minorities in American Society	3
SOCI 360 Intro. to Criminology	
ANTH 110 Cultural Anthropology	
ANTH 125 Physical Anthropology	3
ECON 100 Principles of Macro Economics	3
ECON 102 Principles of Micro Economics	
Foreign Language 5-	10
MATH 200 Elem. Probability & Statistics	4
PHIL 200 Intro. to Logic	3
PSYC 100 General Psychology	3
PSYC 110 Marriage & Relationship Choices	3

#### 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. Twenty-one units of General Education, 2 units of Physical Education and a major are required. The major in Sociology consists of a minimum of 18 semester units in the 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 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. The minimum 18 units must be selected from the RECOMMENDED TRANSFER PROGRAM.

\*May be used for major OR Ethnic Studies requirement.

## 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.

#### 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, and public relations.

CORE CURRICULUM REQUIRED	Units
TOUR 100 Travel Industry Reference Materials	3
TOUR 101 Selling Travel	3
TOUR 710 A.R.C. Forms and procedures	3
TOUR 712 Internship (or TOUR 670, Coop ED.)	2
TOUR 715 F.I.T. Planning & Costing	3
TOUR 720 Domestic Air/Computer Training	
TOUR 725 Internat'l Airline Tariff & Ticketing	
BUS. 430 Microcomputer Applications I	1.5

BUS. 431 Microcomputer Applications II	
GEOG 150 World Regional Geography	3
Total	27

#### **RETAIL TRAVEL CERTIFICATE**

Core Curriculum (as stated above) plus:
elect one course from the following list of electives:
GEOG 100 Physical Geography 3
GEOG 110 Cultural Geography 3
OUR 103 Travel Destinations/Europe 3
OUR 104 Travel Destinations/World
OUR 105 Travel Destinations/North America
Total

## WHOLESALE TRAVEL CERTIFICATE

TOUR 100 Travel Industry Ref. Materials 3
TOUR 101 Selling Travel 3
TOUR 710 A.R.C. Forms and Procedures 3
TOUR 712 Internship in Tourism
or
TOUR 670 Coop Ed 3
TOUR 715 F.I.T. Planning & Costing 3
TOUR 725 International Airline Tariff & Ticketing
TOUR 731 Wholesale Tour Operations
TOUR 732 Adv. Wholesale Tour Operations 3
BUS. 430 Microcomputer Applications I 1.5
BUS. 431 Microcomputer Applications II 1.5 or
COMP 430 Intro. to Macintosh 3
GEOG 150 World Regional Geography
A.S. DEGREE – TRAVEL INDUSTRY CAREERS/TOURISM Units
Units

CAREERS/IOURISM	1
Core Curriculum Required	
with TOUR 712 taken for 3 units	
General Education Requirements	
Physical Education Requirement	
TOUR 731 Wholesale Tour Operations	
TOUR 732 Adv. Wholesale Tour Operations	

TOUR 732 Adv. wholesale four Operations	
Electives: Select any two courses from the	
Retail Travel Certificate electives list	
Total 60	

#### 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.)

Units

Units

28 18

23

# 54 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 Un	
ART 101 History of Art 1	3
ART 102 History of Art II	3
ART 103 History of Art III	3
ART 201 Form and Composition I	3
ART 202 Form and Composition II	3
ART 204 Drawing I	3
ART 205 Drawing II	3
ART 214 Color	3
ART 221 Painting 1	
ART 231 Water Color I	
ART 234 Printmaking I	3

#### 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. To be eligible for the Certificate, applicants must satisfy the requirements of both I and II below. I.

- 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);
- b. Have completed or be in the process of completing English 100 and 110 with a grade of "B" or better;
- c. Have completed or be in the process of completing three (3) courses in Spanish or French or German with a letter of "B" or better;
- d. Have the equivalent of B and C above in addition to a minimum of 12 units of residence at Cañada College.

**Note:** Language classes within the "800" series are not acceptable to fulfill certificate requirements. Grades of "CR" only, rather than a letter grade, CANNOT be applied towards the certificate.

П.

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

The Canada 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, Teacher, Theatre Manager.

TRANSFER PROGRAM SUGGESTED CURRICULA Unit	5
DRAM 101 History of Theatre 1	3
DRAM 102 History of Theatre II	3
DRAM 140 Introduction to Theatre	3
DRAM 200 Fundamentals of Acting	3
DRAM 201 Principles of Acting I	3
DRAM 202 Principles of Acting II	3
DRAM 203 Principles of Acting III	3
DRAM 208 Acting Practicum I 1-	5
DRAM 209 Acting Practicum II	5
DRAM 210 Acting Practicum III	5
DRAM 211 Acting Practicum IV	5
DRAM 248 Make up	-
DRAM 248 Make-up	-
DRAM 300 Play Production 0.5-	5

DRAM	305	Technical	Production		 	2.5	 			 		 	 1	D.,	5-	 3
DRAM	338	Costume	Workshop .	. +	• •		 • •				2	 				 3

#### 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
ENGL 165 Advanced Composition	3
Literature courses	
Foreign Language	0-10
HIST 100 History of Western Civilization I	3
HIST 101 History of Western Civilization II	3
PHIL 100 Introduction to Philosophy	3

#### 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.

## FOREIGN LANGUAGE

TRANSFER PROGRAM	
SUGGESTED CURRICULA	Units
Foreign Language*	18 - 24
HIST 100 History of Western Civilization	3
PHIL 100 Intro. to Philosophy	
ART 102 or 103 History of Art	3
*All units must be in a single language; courses in the	· "800"
series do not satisfy requirements for the major.	

#### ASSOCIATE IN ARTS DEGREE PROGRAM

Students wishing an A.A. degree in Foreign Language 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 concentra-

tion (courses in the "800" series are not applicable), 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.

#### TRANSFER PROGRAM

SUGGESTED CURRICULA	Units
JOUR 110 Introduction to Journalism	3
JOUR 120 Newswriting	3
ENGL 100 Reading and Composition	
ENGL 110 Composition and Literature	3
PSYC 100 General Psychology	3
SOCI 100 Introduction to Sociology	3
SPCH 100 Fundamentals of Speech	

#### 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.

TRANSFE	R PR	OGRA	M

SUGGESTED CURRICULA Uni	its
MUS. 101 Musicianship I	2
MUS. 102 Musicianship II	
MUS. 131 Harmony I	3
MUS. 132 Harmony II	3
MUS. 202 Music Appreciation	
MUS. 496 Musical Recitals	
Applied Music classes	
Performance classes	8

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	
ENGL 100 Reading and Composition	3
ENGL 110 Composition and Literature	
PSYC 100 General Psychology	3
SOCI 100 Introduction to Sociology	
ANTH 110 Cultural Anthropology	
Student selects 18 units from the above list.	



ANNOUNCEMENT OF COURSES

All courses and curricula listed in this catalog will not necessarily be offered during 1989-1990. 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 California Articulation Number (CAN) identifies some of the transferable lower division, introductory courses commonly taught within each academic discipline on college campuses.

The system assures students that CAN courses on one participating campus will be accepted in lieu of the comparable CAN course on another participating campus. See your counselor for a list of participating institutions.

The CAN system is new and growing and designed to facilitate student transfer between and among public institutions of higher education in the state of California. CANs are listed parenthetically after the course description in the listing of classes.

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.

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.

		**********************	
Class Hours		By Arrange	ment
		I	
Description:	Self-paced indivi	vidualized instruction in sele	ected
topics to be	arranged with	individual faculty member	and

approved by appropriate Division Director. Varving modes of instruction. May be repeated for 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 1–3 Class Hours By Arrangement Prerequisites: None Description: Self-paced individualized instruction in selected topics to be arranged with individual faculty member and approved by appropriate Division Director. Varying modes of instruction. Not designed for transfer credit. May be repeated for credit.

## ACCOUNTING

#### ACTG 100 ACCOUNTING PROCEDURES.

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. (CAN BUS 2)

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. (CAN BUS 4)

Units	4-5
Class Hours 4-5 lecture ho	ours/week
Prerequisites: ACTG 121 or e	
with a grade of C	

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)
Class Hours .	
	None
Description: F	undamentals of income taxation. Study of the
internal revenu	ue code, income tax regulations, and other refer-
ence material i	used in tax issues pertaining to individuals.

#### ACTG 180 PAYROLL AND BUSINESS TAXES.

Units 1.5 Class Hours 1.5 lecture hours/week Prerequisites: ACTG 100 or 121 or equivalent. Description: A review of payroll accounting procedures including state and federal laws and regulations. Also, a review of the California sales tax regulations and requirements for declarations of real and personal property valuation. Major emphasis is on the preparation of payrolls utilizing traditional payroll methods but including illustrations of pegboard and computerized systems. (Offered Spring only.)

#### ACTG 190 COMPUTERIZED ACCOUNTING.

Units 3 Class Hours 3 lecture/2 lab hours/week Prerequisites: ACTG 100 or 121. Description: The study of accounting utilizing a microcomputer and accounting software for five systems: general ledger, accounts receivable, accounts payable, depreciation, and payroll.

#### ACTG 212 MANUFACTURING ACCOUNTING.

Units (Grade Option) 1.5 Class Hours 1.5 lecture hours/week Prerequisites: ACTG 100 or 121. Description: A practical approach to manufacturing accounting systems utilizing both job order and process cost accounting techniques. An introduction to standard cost accounting. (Offered Spring only)

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

## ANATOMY

#### ANAT 250 ANATOMY.

Units \_\_\_\_\_\_ 4 Class Hours \_\_\_\_\_\_ 3 lecture, 3 lab hours/week Prerequisites: \_\_\_\_\_ High school Biology with grade B or better

or equivalent. Description: Structure of the human body as demonstrated through laboratory study and dissection of the human cadaver. 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.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

## ANTHROPOLOGY

#### ANTH 105 PEOPLES AND CULTURES OF THE WORLD.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: A study of the Eskimo, Bushman of Africa, Mountain People of New Guinea, Pygmy, Yanomamo of Brazil, Peoples of Micronesia, and peoples of other cultures of the non-industrialized world.

ANTH 110 CULTURAL ANTHROPOLOGY. (CAN ANTH 4)

theories of anthropology. Religion, economics, personality, kinship, and family of different cultures.

#### ANTH 125 PHYSICAL ANTHROPOLOGY. (CAN ANTH 2)

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: A survey of the history of life on earth and the evolution of different lifeforms. Topics included are: differences and similarities between humans and apes; fossils of and behavior of human ancestors; biological similarities and differences between men and women and sociobiology.

#### ANTH 360 INDIANS OF NORTH AMERICA.

ANTH 370 PRE-COLUMBIAN PEOPLES AND CULTURES OF MEXICO AND CENTRAL AMERICA.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites None Description: Study of Middle American civilization as developed through cultures such as Olmec, Zapotec, Mixtec, Maya, Toltec, 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.)

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

## ARCHITECTURE

#### ARCH 110 BASIC ARCHITECTURAL DRAWING.

codes, sketching and instrument drawing.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Beginning program of planning and design for the family dwelling. Emphasis on architectural blueprint reading, floor plan design, home orientation, construction, local building

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

## ART

#### ART 101 HISTORY OF ART I.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: A survey of the development of art in the prehistoric, ancient, classic, and medieval periods. Emphasis placed upon the structure of art and its use in society.

#### ART 102 HISTORY OF ART II.

Units (Grade Option)
Class Hours
Prerequisites: None
Description: Survey of art from the late Middle Ages through
the 18th century. Émphasis placed upon Renaissance values as
they relate to architecture, sculpture, and painting.

#### ART 103 HISTORY OF ART III.

Description: Survey of Western art as developed in the 19th and 20th Centuries. Emphasis placed upon the influences of world art on contemporary art and architecture.

## ART 190 FINE ARTS FOR CHILDREN.

(Also MUS. 190)

Units (Grade Option) ..... 3 Prerequisites: ..... None 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.

#### ART 201 FORM AND COMPOSITION I.

Units (Grade Option) 3 Class Hours 3 lecture/3 lab hours/week Prerequisites: None Description: Fundamentals of representational composition with emphasis on the individual and combined use of line, mass, shape, color (value only), and space organization. Course will include both drawing and painting projects.

#### ART 202 FORM AND COMPOSITION II.

Prerequisites: ..... ART 201 Description: An intermediate course in composition emphasizing the creative use of subject matter and the development of compositional versatility. Diverse media will be used.

## ART 204 DRAWING I.

Units (Grade Option) ..... 3 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 205 DRAWING II.

Units (Grade Option) 3
Class Hours
Prerequisites: ART 204
Description: Continued development of visual perception and technique, emphasizing direct response to visual stimuli and personal interpretation of subject matter. Mixed media.
personal interpretation of subject matter. Mixed media.

#### ART 207 LIFE DRAWING.

Units (Grade Option) 3
Class Hours
Prerequisites: ART 205
Description: Study of the human figure through the application
of various drawing concepts. Perceptual sensitivity and composi-
tional exploitation of the subject will be emphasized. May be
repeated three times for credit.

#### ART 214 COLOR.

Units (Grade Option) 3
Class Hours
Prerequisites: None
Description: Consideration of color, theory, and practice. Relationship of color and form as applied to contemporary painting and design.

#### ART 221 PAINTING I.

Units (Grade Option) 3 Class Hours 3 lecture/3 lab hours/week Prerequisites: ART 201, 204 Description: A structured course in painting with projects emphasizing continuity of student experience, orderly approach, and increased sophistication as regards means and mode of expression. Field trips may be required. May be repeated three times for credit.

#### ART 222 PAINTING II.

Units (Grade Option) 3 Class Hours 3 lecture/3 lab hours/week Prerequisites: ART 221 Description: Development of awareness to optical potential of the painted surface. Acrylics, oil paint or other media will be employed to encourage individual expression. Field trips may be required. May be repeated three times for credit.

#### ART 231 WATER COLOR I.

Units (Grade Option) 3
Class Hours
Prerequisites: ART 201, ART 204
Description: Study of transparent and opaque watercolor tech-
nique 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.

#### ART 232 WATER COLOR II.

Units (Grade Option) 3
Class Hours
Prerequisites: ART 231
Description: Advanced study of transparent and opaque water-
color techniques 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.

#### ART 234 PRINTMAKING I.

Units (Grade Option) 3
Class Hours
Prerequisites: ART 204
Description: Introduction to printmaking, involving processes of relief printing and intaglio. May be repeated three times for credit.

#### **ART 235 PRINTMAKING II.**

Units (Grade Option) 3
Class Hours
Prerequisites: ART 234
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 301 DESIGN

Units
Class Hours
Prerequisites: None
Description: Fundamentals of non-objective two-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.

#### ART 303 COLOR DESIGN.

#### ART 311 LETTERING AND LAYOUT I.

Units (Grade Option)	
Class Hours	
Prerequisites: None	
Description: Development of proficiency in freehand and mecha-	
nical lettering with pen and brush. Traditional and imaginative	
interpretations of lettering styles.	

#### 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 320 PERSPECTIVE.

#### ART 322 ILLUSTRATION.

#### ART 351 BASIC BLACK AND WHITE PHOTOGRAPHY.

Units	
Class Hours	2 lecture/2 lab hours/week
Prerequisites:	
1	or equivalent.

Description: An introductory course in black and white photography. Ownership of a 35mm camera and basic understanding of its controls are a prerequisite. Students will learn to develop and print their own black and white film. Students must supply their own 35mm camera, film, and paper.

#### ART 356 INTRODUCTION TO 35mm PHOTOGRAPHY.

Units (Grade Option) 1 Class Hours 3 lecture hours/week Prerequisites: None Description: An introductory course in the use and handling of

Description: An introductory course in the use and handling of 35mm cameras and their related accessories. The course will present a thorough analysis of the operation of 35mm cameras, including f/stops, shutter speeds, interchangeable lenses, films available, and accessories for better photographs. Although no previous knowledge of cameras is necessary, students will need to have access to a 35mm adjustable camera to complete the required assignments.

#### ART 357 INTRODUCTION TO COLOR PHOTOGRAPHY.

# ART 359 INTRODUCTION TO PHOTOGRAPHIC COMPOSITION.

Units (Grade Option) 1 Class Hours 3 lecture hours/week Prerequisites: ART 356 Description: Photographic composition will be studied to give photographers an understanding of the basic principles of design and visualization as they pertain to the field of photography. Both established masters in the medium and work submitted by students will be analyzed. Students will need to have access to a 35mm adjustable camera and possess understanding of camera operations to complete class assignments.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

## ASTRONOMY

#### ASTR 100 INTRODUCTION TO ASTRONOMY.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

## BIOLOGY

#### BIOL 100 INTRODUCTION TO THE LIFE SCIENCES.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Study of the nature of the physical and chemical aspects of life, the concepts of cellular biology, life as it exists on earth today, plant and animal interrelationships and interdependencies, and the role of humans in the world of living things.

#### **BIOL 110 PRINCIPLES OF BIOLOGY. (CAN BIOL 2)**

Units 4 Class Hours 3 lecture, 3 lab hours/week Prerequisites: None Description: Biological principles including cellular organization, heredity, molecular components, evolution, reproduction, differentiation, and ecology.

#### **BIOL 111 NATURE STUDY.**

Units	
Class Hours	2 lecture, one 3-hour
	lab/field trip/week
Prerequisites:	None
Description: Study of common plants and	d 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.**

Units
Class Hours
Prerequisites: None
Description: Study of biological principles utilizing the human
body as a model. Emphasis on major body systems of the
human as well as topics of heredity and human development.
the second

#### **BIOL 160 HUMAN GENETICS.**

Units Class Hours 3 lecture hours/weel Prerequisites: None Description: Introduction to the principles of heredity in plant and animals with specific reference to human inheritance biochemical genetics, evolution and recombinant DNA.

#### BIOL 310 NUTRITION. (Also H.EC 310) (CAN H EC 2)

ments 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.

## **BIOL 312 NUTRITION IN HEALTH AND DISEASE.**

(Also H.EC 312)

Description: Discussions of metabolic disorders of human body systems that require dietary modifications to compensate. 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 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

## BOTANY

#### BOTY 112 NATIVE PLANTS AND WILDFLOWERS.

Units (Grade Option) 3 Class Hours 2 lecture, 3 lab hours/week Prerequisites: None Description: Study of the native ferns, trees, shrubs and wild 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.

#### BOTY 145 PLANTS AND MAN.

Units 3 Class Hours 3 lecture hours/week Prerequisites: ..... None Description: Introduction to plant science including cells, plant groups, propagation, distribution, succession, structure, and function.

#### BOTY 220 GENERAL BOTANY. (CAN BIOL 6)

Units 5 Class Hours 3 lecture, 6 lab hours/week Prerequisites: High school Biology with a grade of B or better or equivalent. Description: Principles of Biology as illustrated by plants with

emphasis on structure, physiology and reproduction in green plants. Field trips may be required. Offered each Spring semester of odd numbered years.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

## **BUSINESS/OFFICE SKILLS**

**BUS. 100 SURVEY OF BUSINESS.** 

	s (Grade Option)	
Class	s Hours	3 lecture hours/week
Prere	equisites:	None
Desci and	ription: Introductory survey of structure of the American ente examined include management,	of the nature, organization, erprise system. Major activi-
RUC	101 HUMAN DELATIONS IN	DICINECC

#### BUS. 101 HUMAN RELATIONS IN BUSINESS.

Units (Grade Option)
Class Hours
Prerequisites: None
Description: The basic psychological principles operating in
family, social and business relationships. Topics include: percep-
tion, self-image, self-management, prejudice, creativity and
resistance to change. Recommended for all business majors.

BUS.	103 IN	ITRO	DUCTION	TO	BUSINESS	COMPUTER	
SYSTE	EMS.	(CAN	BUS 6)				

Units components of a computer-based system. An overview of hardware, software, flow-charting and programming (using BASIC) concepts is introduced. Microcomputer applications to business include: spreadsheets, word processing, data base management, and DOS. Course is designed to meet the requirements of the business transfer major.

#### BUS. 110 BUSINESS ARITHMETIC.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: Achieve a score of at least 20 on Test #1 of the General Math. Placement Test.

Description: Objectives are to improve arithmetic skills in basic addition, subtraction, multiplication, division, fractions, deci-mals, and to apply skills to cash and trade discounts, and other business problems. Individualized method of instruction is used with a programmed text. Open entry/open exit.

#### **BUS. 115 BUSINESS MATHEMATICS.**

Units (Grade	Option)	 	
Class Hours		 	3 lecture hours/week
Prerequisites:		 BUS	. 110 with C or better
a de la de l			minimum on protoct

Description: Study of business mathematics with emphasis on calculations involving taxes, discounts, negotiable instruments, periodic payments, compensation methods, inventory pricing, depreciation, and present value. Individualized method of instruction is used with a programmed text. Open entry/open exit.

#### **BUS. 131 MONEY MANAGEMENT.**

Units (Grade Option)	
Class Hours	
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-	

ments, estate planning, and income tax preparation. A comparative investment project is offered. Computer application programs for money management are demonstrated in class and are available for student practice.

#### BUS. 150 SMALL BUSINESS MANAGEMENT.

Description: Examination of the opportunities and hazards of small business operation; designed for business students who plan to establish or supervise a small business. Course covers how to start and manage a small business.

#### BUS. 180 MARKETING.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: A broad study of marketing principles and methods applicable to the development, manufacture, pricing and promotion of consumer goods in business and non-business situations.

#### BUS. 201 BUSINESS LAW. (CAN BUS 8)

Prerequisites: ..... None Description: Introduction to the law applicable to business institutions and their operations; social forces and their effect upon the development of law, sources of law, agencies for enforcement and court procedure. California law applicable to contracts and agency relationships.

#### **BUS. 235 TECHNIQUES OF SUPERVISION.**

(Also MGMT 235)

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. Leadership and creativity in supervision. How to establish and maintain effective communications in the workplace.

#### **BUS. 400 BUSINESS ENGLISH.**

Units 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Fundamental English preparation for all students; development of language arts skills through the study of basic

sentence structure, grammar, punctuation, capitalization, word usage, and editing.

#### BUS. 401 BUSINESS COMMUNICATIONS.

completion of English 801 or 802.

Description: Designed to help students become more proficient in written and oral communication and business reports.

#### **BUS. 402 WORD PROCESSING: MACHINE**

TRANSCRIPTION.

Units 1-3 Class Hours 3 lecture/2 lab hours/week Prerequisites: BUS. 415 or 40 wpm required; BUS. 400.

Description: To develop skill in effective transcription of machine-dictated documents; efficient use of reference materials; familiarization with general business terminology; and proficiency in correct use of language skills that include punctuation, spelling, proofreading, and grammar while transcribing.

#### **BUS. 403 WORD PROCESSING: LETTER FORMATS.**

Units (Grade Option) 1–3 Class Hours 3 lecture/2 lab hours/week Prerequisites: BUS. 415 or 40 wpm required. Description: Learn to keyboard business letters using the micro-computer with word processing software.

#### BUS. 404 WORD PROCESSING: REPORT FORMATS.

microcomputer with word processing software. Open entry/ open exit.

#### BUS. 405 WORD PROCESSING: SKILL BUILDING.

computer and a specialized skill building program. Open entry/ open exit.

#### **BUS. 410 OFFICE INTERNSHIP.**

Units	
Class Hours 1	.5 lecture/4 lab hours/week
Prerequisites:	BUS. 110, 400, 402 or 403;
	BUS. 431 recommended.

Description: Variable unit course designed to provide a realistic training environment in which the student will refine informa-tion processing skills and/or office administration skills. Also included are technological (electronic mail, calendaring, etc.) procedures, decision-making, and interpersonal experiences. An open-entry, open-exit course.

## BUS. 413 SHORTHAND FOR THE ELECTRONIC OFFICE.

#### **BUS. 414 SHORTHAND ENRICHMENT.**

Units	
	3 lecture/1 lab hours/week
Prerequisites:	Ability to take dictation at 40 wpm;
	eligibility for ENGL 800.

Description: Review and update of Gregg shorthand principles and practice dictation and transcription.

#### **BUS. 415 INTRODUCTORY KEYBOARDING**/

TYPEWRITING.

Units (Grade Option) 2-3 Class Hours 3 lecture/2 lab hours/week Prerequisites: None Description: Opportunity to develop correct keyboarding techniques using the alphabetic and number keys on the microcom-puter. Computer software is used to develop a minimum speed of 25 wpm with no more than one error per minute on timed writings. Proficient use of the 10-key calculator and/or the 10-key pad of the microcomputer is also taught. A course for persons who do not know how to type or use the computer keyboard. Open entry/Open exit

#### BUS. 416 OFFICE SKILLS AND PROCEDURES.

Units (Grade Option) 1-3 Class Hours 3 lecture/2 lab hours/week Prerequisites: BUS. 415 or minimum of 40 wpm is recommended.

is recommended.

Description: To provide students with basic office skills in telephone techniques, filing procedures; the skill of being a receptionist; a review of language skills using the IBM-PC and dictation/transcription equipment; and other procedures used in the automated office. Open entry/open exit.

#### **BUS. 430 INTRODUCTION TO MICROCOMPUTER** APPLICATIONS, PART I.

Prerequisites: BUS. 415 or equivalent. Description: An introduction to microcomputers with hands-on experience using the IBM PC/XT & AT computers. Students will learn the disk operating system (DOS), word processing and spreadsheet application software.

# **BUS. 431 INTRODUCTION TO MICROCOMPUTER**

Prerequisites: BUS. 430. Description: Students will master intermediate DOS commands and will complete exercises in database management, creation of graphics, desktop publishing, telecommunications, integrated programs and local area networks. Also covered will be selection, upgrading, and care of PC's.

## BUS. 432 MICROCOMPUTER WORD PROCESSING.

Description: Introduction to word processing on a microcom-puter using WordPerfect, Version 5.0. Students will learn to keyboard, revise, edit, store files, and print text documents. The course may be repeated once for credit.

## BUS. 434 MICROCOMPUTER SPREADSHEET.

 BUS. 434 MICROCOMPUTER SPREADSHEET.
 3

 Units (Grade Option)
 3 lecture/2 lab hours/week

 Prerequisites:
 BUS. 430, 431 or equivalent.

 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.

#### **BUS. 436 DATA BASE MANAGEMENT.**

BUS. 436 DATA BASE MANAGEMENT. Units (Grade Option) 3 Class Hours 3 lecture/2 lab hours/week Prerequisites: BUS. 430, 431 or equivalent. Description: An introduction to data base management tech-niques for common business applications. dBASE III software will be used on the IBM-PC to develop and report from a data base. Students will design a data base, establish the data entry screens, and produce business reports from the data base. Strongly recommended enrollment in BUS. 415 preceding or concurrent with this course. concurrent with this course.

#### **BUS. 438 MICROCOMPUTER GRAPHICS AND** DESKTOP PUBLISHING.

DESKTOP PUBLISHING. Units (Grade Option) 3 Class Hours 3 lecture/2 lab hours/week Prerequisites: BUS. 430 and 431 or equivalent. Description: An overview of desktop publishing as used in offices. Students will use a paint program, a graphic program, a simple page layout application, and a high-end desktop publish-ing program PageMaker, Version 3.0. Also included is how to use WordPerfect, Version 5.0 graphics' features in desktop publishing. publishing.

#### BUS. 699 INDEPENDENT COMPUTER LABORATORY

Units (Grade Option) 1 Class Hours 3 lab hours/week Prerequisites: BUS. 415 or BUS. 431 may be taken concur-rently; and, eligibility for ENGL 800, WRIT 80, and MATH 811. Description: Individualized use of microcomputer classroom/ labs for completing assignments and/or independent projects. Students can also use the computer facilities to increase their applications and software skills.

#### **BUS. 881 CURRENT ISSUES**

Units (Grade Option) 1-4
Class Hours By Arrangement
Prerequisites: None
Description: Selected current issues not covered by regular
catalog offerings. Course content and unit credit to be deter-
mined by the appropriate division in relation to community/
student need and available staff. These innovative courses may
he de l

be offered as seminar, lecture, or lecture/lab classes. See semester schedule for particular offerings. Course content and requirements will parallel standards and requirements of other NON-TRANSFER level courses. Courses will focus on single issues pertinent to the discipline. May be repeated for credit.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

## CAREER AND PERSONAL DEVELOPMENT

#### CRER 137 LIFE AND CAREER PLANNING.

Prerequisites: ..... None Description: Personal and career inventories are evaluated. Career options are researched and job search techniques are developed. Course stresses the significance of clearly de-fined values and development of strategies and goals for life.

#### CRER 401 INTRODUCTION TO COLLEGE.

Units ..... Class Hours ...... 16 lecture hours/semester Prerequisites: ..... None Description: The new student is helped to know and understand Cañada College so that he/she might make best use of its resources and activities. A variety of techniques are used for self-appraisal and decision-making.

#### CRER 410 COLLEGE AWARENESS.

Units (Grade Option) 2 Class Hours 32 lecture hours/semester Prerequisites: None Description: Although the class is intended for students in special programs and emphasizes their special needs, all students are welcome to participate. The class deals more thor-oughly with topics in CRER 401.

#### CRER 430 CAREER ASSESSMENT.

Units	
Class Hours	
Prerequisites:	Entry level skills/expectations in

Reading/Writing — ENGL 800. Description: Designed to help individuals define career alternatives. Several vocational interest, skills and values inventories are given and results interpreted. The Career Center and community resources are used for research. Plan of action/goals for career possibilities are developed based on career research and test results.

#### CRER 650 SPECIAL INTEREST DISCUSSION GROUPS.

Units 0.5-1.5 Class Hours 8-24 lecture hours/semester Prerequisites: None Description: Any group of students with a common interest may meet under the leadership of a counselor to explore and evaluate personal values, goals, and expectations as they relate to this social and cultural environment.

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A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

## CHEMISTRY

CHEM 110 CHEMISTRY AND DAILY LIFE.

Description: Introduction to the language of chemistry, followed by investigations into the role chemistry plays in various aspects of our environment. Topics such as pollution, food additives, energy and drugs are examined from a chemistry point of view.

#### CHEM 110 CHEMISTRY AND DAILY LIFE LABORATORY.

Units	1
Ciucs	
Class Hours	ation/week
Prerequisites: Concurrent enrolls	ment in or
completion of C	HEM 110.

Description: Experimental examination of some materials in our environment; such as the making of soaps, examining of fuels, flammability of materials, food analysis and physical and chemical properties of substances.

#### CHEM 192 ELEMENTARY CHEMISTRY.

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.

5 lab hours/week 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 C or better.

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.

#### CHEM 224 ENGINEERING CHEMISTRY I.

MATH 115 or equivalent of each. Eligibility for ENGL 800. Description: Practical aspects of chemistry: scientific measurement; modern atomic theory and the periodic properties of elements; atomic electronic structure theory and bonding (between metallic elements and between metallic and nonmetallic elements); chemical bonding; molecular structure and shape; thermochemistry; chemical stoichiometry; kinetic molecular theory and electrical forces explaining properties of gases, liquids, solids and solutions. Emphasis on applications of materials science of interest to Engineering students.

#### CHEM 225 ENGINEERING CHEMISTRY II.

Description: Principles and theory of inorganic chemistry for students majoring in Engineering. Topics include: descriptive chemistry of the elements, ionic equilibria, oxidation-reduction, qualitative analysis, kinetics, thermodynamics, electrochemistry, coordination chemistry, introduction to organic and polymer chemistry, introduction to nuclear chemistry. This course is similar to CHEM 220, but with great emphasis on topics of interest to engineers.

#### CHEM 250 QUANTITATIVE ANALYSIS.

Units	
Class Hours	
-	5 lab hours/week
Prerequisites:	CHEM 220 with grade of C

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 majoring in the physical sciences, medical sciences, and some

## CHEM 410 HEALTH SCIENCE CHEMISTRY.

areas of life science.

Units	
Class Hours	
	2 lab hours/week

Prerequisites: ..... One year high school algebra. Description: Elementary course covering fundamental principles of general and inorganic chemistry with emphasis on applied 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.

#### CHEM 420 HEALTH SCIENCE CHEMISTRY.

Units	
Class Hours	3 lecture, 1 recitation,
	2 lab hours/week
Prerequisites:	CHEM 410 or CHEM 210
	with grade of C or better
Description: Same format as 410, but	with organic and biochem-

Description: Same format as 410, but with organic and biochemistry as subject matter.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

## COMPUTER INFORMATION SYSTEMS

The normal sequence of Computer Science courses at Cañada is: 103, 170, 172. COMP 115 should be taken concurrently with 103.

This sequence not only forms the core of the CIS Certificate Program (see page 33 CIS listing under Basic and Applied Sciences), but also provides excellent preparation for transfer students who will continue their computer studies at a four-year institution.

# COMP 103 INTRODUCTION TO PROGRAMMING USING PASCAL.

and procedures. Problem solving through top-down design and step-wise refinement is stressed. Some instruction in text editing and computer systems is included.

#### COMP 115 ON-LINE EDITING.

Units 0.5	
Class Hours 1 eight-hour session	
Prerequisites: None	
Description: Use of on-line editing programs, text editing and program development and modification. Strongly recommended for students taking COMP 151, 155, 162, 170, 172, 190. This course is also recommended for students who want to use the	
on-line editing program for editing reports and/or compositions	
in non-computer courses.	

#### COMP 116 FREDWRITER.

Units (Credit Only) 0.5 Class Hours 1 eight - hour session Prerequisites: Eligibility for ENGL 800 and MATH 811. Description: Simple word processing, ideal for writing papers, essays, and reports. Course will cover the fundamentals of an operating system and document editing on a microcomputer. Topics include: formatting a floppy disk; loading, saving and printing files; erasing and renaming files; entering the word processor; inserting and deleting text; moving, cutting and pasting text; and searching and finding.

#### COMP 151 INTRODUCTION TO COBOL PROGRAMMING. (CAN CSCI 8)

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. (CAN CSCI 6)

Units 3 Class Hours 3 lecture/4 lab hours/week Prerequisites: MATH 110 with grade of C or better. (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.**

Units	
Class Hours	
	COMP 155 or equivalent and
	COMP 115 strangly recommended

COMP 115 strongly recommended. 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. (CAN CSCI 4)

Units	
Class Hours	. 3 lecture/4 lab hours/week
Prerequisites: MATH 13	30 with grade of C or better.
or MATH 24	11 with grade of C or better,
COMP 155	prerequisite or concurrently

Description: Introduction to computer programming using the FORTRAN 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 170 PROGRAMMING IN PASCAL. (CAN CSCI 12)

Units 3 Class Hours 3 lecture/4 lab hours/week Prerequisites: COMP 103, COMP 115 strongly recommended. Description: Parallel development of algorithm and data structure design emphasizing the use-defined data types and structures available in PASCAL. Topics include review of top-down design techniques, records and data abstraction, ordinal types and sets, arrays, sequential files, recursion, pointers and dynamic data structures.

#### COMP 172 ADVANCED PASCAL PROGRAMMING.

Units (Grade Option) 3 Class Hours 3 lecture/3 lab hours/week Prerequisites: COMP 170; eligibility for ENGL 100 and MATH 110.

Description: Abstract data types (ADT) and user-interfaces with applications to internal and external information organization and retrieval. Topics include: strings, tables, random access files, relational data bases, interpreters and simple query languages. Students will complete a final project integrating ADT and data base techniques.

#### COMP 175 INTRODUCTION TO HYPERCARD.

Description: The course includes the effective use of the multitude of existing HyperCard stackware with many examples from the Canada Stackware Library. Topics covered are linking, printing, the making of graphics using the HyperCard painting tools, as well as customizing and building HyperCard programs using parts from existing stacks. It will also cover the creation of new HyperCard stacks with emphasis on the writing and using of HyperTalk scripts.

#### COMP 190 INTRODUCTION TO C PROGRAMMING.

Prerequisites: ..... COMP 170 or COMP 162 or

equivalent experience. 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 275 ASSEMBLY LANGUAGE PROGRAMMING. (CAN CSCI 10)

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 420 INTRODUCTION TO APPLE COMPUTER.

Units	1.5
Class Hours	1.5 lecture/1 lab hour/week
Prerequisites:	Eligibility for ENGL 800 and MATH 110
-	or 111 and 112.

Description: Applications for APPLE computers to include discussion and demonstration of current microcomputer software and an introduction to programming BASIC.

#### COMP 421 ADVANCED APPLE COMPUTER.

Units ..... 1.5 Class Hours ...... 1.5 lecture/2 lab hours/week Prerequisites: ...... COMP 410; Eligibility for ENGL 800 and MATH 110 or 111 and 112.

Description: Advanced applications for microcomputers including some business applications. Topics such as word processing, spreadsheets, database management and other software will be discussed and demonstrated.

#### COMP 430 INTRODUCTION TO MACINTOSH.

Units (Credit/No-credit) 3 Class Hours 3 lecture/3 lab hours/week Prerequisites: None Description: Introduction to the use of the Macintosh computer. Several applications including word processing, spreadsheet, database and desktop publishing will be discussed and demonstrated.

#### COMP 699 INDEPENDENT COMPUTER LABORATORY

Units \_\_\_\_\_\_1 Class Hours \_\_\_\_\_\_3 lab hours/week Prerequisites: \_\_\_\_\_Strong knowledge of a computer language, or a need to use the text-editor in a non-computer class

to write reports and/or compositions.

COMP 115 strongly recommended.

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 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

## 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 ..... 1-4 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.

assist students with identified learning disabilities in the following skill areas; basic skills; memory/ organization/ concentration skills; perceptual skills (auditory/visual); language skills (receptive and expressive); conceptual skills.

#### DSKL 811 SPECIFIC LEARNING ASSESSMENT.

Prerequisites: ..... Verifiable learning disability. Description: An assessment battery is used to determine specific learning styles as well as academic skill levels in reading, writing, math, and spelling. Based upon assessment, the student with the assistance of the instructor, will design and use individual learning strategies.

#### 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.

and writing skills. (May be repeated up to a total of 9 units)

#### DSKL 816 TUTORING.

identified 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.

Units (Grade	Option)		
Class Hours			3 lecture hours/week
Prerequisites:			None
Description:	The Classical	period to the	18th century. Plays, their relationship to
physical the	arres, staging,	unecung 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) 3 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 140 INTRODUCTION TO THE THEATRE.

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 TV

#### DRAM 142 GREAT PLAYS: CLASSICAL AND **RENAISSANCE.** (Also LIT. 142)

Description: Study of the greatest plays and playwrights from classical Greece through the Elizabethan era in England. Principles underlying dramatic literature in each period will be related to dominant social, intellectual and artistic forces, measuring the student's own beliefs and values against those of characters of other times and places. Play attendance may be required.

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

(Also LIT. 143)

17th Century to the present. See description of Drama 142.

#### DRAM 144 HISTORY AND DEVELOPMENT

OF THE AMERICAN MUSICAL. (Also LIT. 144)

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)

Shakespeare's life and times and some discussion of his poetry will be included, although the plays are the main focus of the course.

#### **DRAM 152 INTRODUCTION TO SHAKESPEARE II.** (Also LIT. 152)

Units (Grade Option) ..... Prerequisites: ..... ENGL 100 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 200 THEORY AND PRACTICE OF ACTING.

production; presentation of scenes, including scenes performed for video-tape study; improvisation and pantomime; critical evaluation of scenes and plays.

#### DRAM 201, 202, 203 ADVANCED ACTING.

Units (Grade Option) .		
Class Hours		4 lecture hours/week
Prerequisites:	DRAM 200 a	nd concurrent enrollment
D		in DRAM 209, 210, 211.

Description: Advanced, enriched, and more complex work in the areas covered by DRAM 200.

#### DRAM 208, 209, 210, 211 (ACTING LABORATORIES).

Units (Grade Option) 2 Class Hours 6 lab hours/week Prerequisites: None Description: Supervised rehearsals of improvisations, pantomimes, oral readings and short scenes. Forms and styles of acting. Exercises in the use of mind, emotions, voice, and body in acting. Acting scenes for drama classes and others. Emphasis upon coaching by the instructor and the students preparing of scenes for performance. May be repeated once for credit.

#### DRAM 220 ACTING FOR THE CAMERA.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Through constant work before the camera, students are introduced to the field of film and TV acting. Students will work on the techniques necessary for commercials, interviews, demonstrations, scenes, monologues, etc.

#### DRAM 233 TUESDAY THEATRE COMPANY.

201, 202, or 203, and Audition. Description: Students will work on developing the art and craft of acting before an audience and on providing that audience with an interesting, entertaining, and fully rehearsed performance. This course bridges the gap between scene work and the intensive and extensive work of a major production.

DRAM 248 MAKE-UP. Units (Grade Option) 2 Class Hours 2 lecture hours/week Prerequisites: Concurrent enrollment in DRAM 305. Description: Introduction to basic techniques of theatrical makeup. Development of skills in practical application.

#### DRAM 300 PLAY PRODUCTION.

Units (Grade	Option)				0.5-3
Class Hours					. By arrangement
Prerequisites:					Audition
Description: ]	Problems	of a	actual	play produ	ction, acting. Play
rehearsal of so	even week	s fo	r each	of three maj	or productions per

semester. Rehearsals are held from 7 – 10 p.m., Monday through Friday. May be repeated for up to 18 units.

#### DRAM 305 TECHNICAL PRODUCTION.

operations; costume and make-up. Students may work on one to three plays per semester. May be repeated for up to 18 units.

#### DRAM 338 COSTUME WORKSHOP.

Description: Problems of actual play preparation of costumes. This course will provide drama and fashion students the opportunity for practical experience in execution of costumes for dramatic productions, with possibilities for designing. May be repeated three times for credit.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

## EARLY CHILDHOOD EDUCATION

#### ECE. 201 CHILD DEVELOPMENT.

and MATH 811.

Description: Overview of development in children from birth to adolescence. Growth areas include: physical and perceptual development; cognition and language; social and emotional development. Emphasis on practical application of theory to assist adults in meeting and understanding children's needs. Of specific interest to: ECE majors; teachers; child care providers; parents.

#### ECE. 210 EARLY CHILDHOOD EDUCATION PRINCIPLES.

Units (Grade Option) 1 – 3 Class Hours 16 – 48 lecture hours/semester Prerequisites: None Description: Overview of the nature and goals of Early Childhood Education. Awareness of historical perspective. Ex-ploration of various program models in ECE and potential future trends. Qualifications and training of teachers of young children. Issues in ECE and potential future trends.

ECE. 211 EARLY CHILDHOOD EDUCATION CURRICULUM. selection and management of activities for young children. Foster skills in providing quality learning experiences. Apprecia-tion of the value of children's play. Development of appropriate curriculum evaluation methods.

#### ECE. 212 CHILD, FAMILY, AND COMMUNITY.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Nature of varying and interacting factors of socialization. Focus is on middle childhood. Examination of contemporary family life styles and patterns of childrearing. Resources

and community agencies available to children and families. Examination of contemporary factors influencing communities.

#### ECE. 213 SCHOOL AGE CHILD.

needs of 'Latchkey Child' to be examined. Goal is relevant and responsible program planning for before and after school child care. Family involvement and community resources are incorporated

#### ECE. 223 INFANT BEHAVIOR.

Units (Grade Option) .		3
Class Hours		re hours/week
Prerequisites:	Eligibility for ENGL 8	00, WRIT 800,
		MATH 811

Description: A survey of developmental trends and environmental influences during the first three years of life. Content especially designed for those interested in child development/ early childhood education, parent education and infant education. Emphasis on developmental abilities within the early months and creation of environments that respond to infant needs.

ECE. 230 CREATIVE ACTIVITIES FOR THE YOUNG CHILD. 

role of creativity; how to stimulate creative expression through art media, music, dramatic activities, science and games both indoors and outdoors.

# ECE. 240 EARLY CHILDHOOD EDUCATION

ADMINISTRATION I. Units (Grade Option) 3 lecture hours/week Prerequisites: 12 units of ECE suggested. Description: Overview of the business aspects of caring for children. Topics include: Legal requirements for child care settings; laws relating to Early Childhood Education; facets of business and fiscal management business and fiscal management.

#### ECE. 241 EARLY CHILDHOOD EDUCATION ADMINISTRATION II.

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.

# ECE. 243 MICROCOMPUTERS IN EARLY CHILDHOOD EDUCATION.

EDUCATION. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites None Description: Exploration of computer software specifically designed for curriculum with young children. Authoring systems and languages (particularly emphasis on LOGO) included Course peither requires part accurate and provide accurate the provided of the p included. Course neither requires nor assumes any prior computer knowledge. Emphasis on creative problem solving.

ECE. 245 TEACHING AND	MANAGEMENT INTERNSHIP I.
Units (Grade Option)	
Class Hours	тва
Prerequisites:	ECE certificate or 14 units of ECE
-	and demonstrated ability.

Description: Designed for the experienced student in coopera-tion 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.

ECE. 246 TEACHING AND MANAGEMENT INTERNSHIP II.
Units (Grade Option) 3-10
Class Hours TBA
Prerequisites: ECE certificate or 14 units of ECE
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.

Units (Grade Option) 1 Class Hours (8 weeks) 2 lecture hours/week Prerequisites: None Description: This course stresses the understanding of nutritional requirements for the young child and the effects of inadequate nutrition on growth and development. Guides for parents and teachers concerning nutritious snacks and meals.

#### ECE. 313 HEALTH AND SAFETY FOR YOUNG CHILDREN.

Units (Grade Option) 1 Class Hours (8 weeks) 2 lecture hours/week 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.

#### ECE. 681 CURRENT ISSUES.

Units (Grade Option) 1–4 Class Hours By Arrangement Prerequisites: None Description: Selected current issues 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 courses may be offered as seminar, lecture, or lecture/lab classes. See semester schedule for particular offerings. Course content and requirements will meet standards of academic rigor required of all TRANSFER level courses, including outside reading and preparation, and strict evaluation. Courses focusing on single issues pertinent to the discipline. May be repeated for credit.

#### ECE. 682 TRAVEL-STUDY COURSES.

Units (Grade Option) 1-5 Class Hours By Arrangement Prerequisites: None Description: Selected travel-study issues 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 courses may be offered as seminar, lecture, or lecture/lab classes. See semester schedule for particular offerings. Course content and requirements will meet standards of academic rigor required of all TRANSFER level courses, including outside reading and preparation, and strict evaluation. Courses incorporating a travel-study format. May be repeated for credit.

#### ECE. 881 CURRENT ISSUES.

Units (Grade Option)	1 - 4
Class Hours By Arranger	nent
Prerequisites: N	lone
Description: Selected current issues not covered by reg catalog offerings. Course content and unit credit to be d mined by the appropriate division in relation to commu student need and available staff. These innovative courses be offered as seminar, lecture, or lecture/lab classes. semester schedule for particular offerings. Course content requirements will parallel standards and requirements of co NON-TRANSFER level courses. Courses focusing on si	gular eter- nity/ may See and other
issues pertinent to the discipline. May be repeated for crec	lit.

#### ECE. 882 TRAVEL-STUDY COURSES.

Units (Grade Option) 1–5 Class Hours By Arrangement Prerequisites: None Description: Selected travel-study issues 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, courses may be offered as seminar, lecture, or lecture/lab classes. See semester schedule for particular offerings. Course content and requirements will parallel standards and requirements of other NON-TRANSFER level courses. Courses incorporating a travelstudy format. May be repeated for credit.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

## ECONOMICS

# ECON 100 PRINCIPLES OF MACRO ECONOMICS. (CAN ECON 2)

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites None Description: The American economy; the price system, resources, 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.

#### ECON 102 PRINCIPLES OF MICRO ECONOMICS. (CAN ECON 4)

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Supply, demand and price determination in a market economy; the business firm's cost, revenues and price policies under competition and monopoly; determination of wages, rent, interest and profits; international trade and finance; taxes, debts and public finance; comparative economic systems.

ECON 230 ECONOMIC HISTORY OF THE UNITED STATES. Units (Grade Option) 3 Class Hours 3 lecture hours/week 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 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

## ENGINEERING

#### ENGR 100 THE ENGINEERING PROFESSION.

Units \_\_\_\_\_ 2 Class Hours \_\_\_\_\_ 2 lecture/1 lab hour/week Prerequisites: \_\_\_\_\_\_ None Description: Definition of engineering as a profession, its ethics and its scholarship. Description of its branches and functions with their historical development. Study of current and future role of engineers in legal, political, social, and ecological aspects of the national and world communities. Course directed to both technical and non-technological majors.

#### ENGR 200 DESCRIPTIVE GEOMETRY.

#### ENGR 220 ENGINEERING GRAPHICS.

Units 2 Class Hours 2 lecture/4 lab hours/week Prerequisites: MATH 251 or 241. Description: Numerical and graphical calculus. Design projects and introduction to the use of computers in engineering design.

#### ENGR 230 STATICS. (CAN ENGR 8)

#### ENGR 260 CIRCUITS AND DEVICES. (CAN ENGR 6)

Description: Introduction to electrical and electronic circuits and devices. Network theory and instruments.

# ENGR 260L CIRCUITS AND DEVICES LABORATORY. (CAN ENGR 6)

Units 1 Class Hours 3 lab hours/week Prerequisites: To be taken concurrently with ENGR 260.

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. (CAN ENGR 4)

Units 3 Class Hours 2 lecture/3 lab hours/week Prerequisites: MATH 251 or concurrently and PHYS 250.

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 semiconducting materials. A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

## ENGLISH

In the San Mateo County Community College District, assessment of basic language skills is expected of all entering full-time students, part-time students who plan to take English, and those continuing part-time students who have completed 12 units at Cañada, College of San Mateo, or Skyline.

The test battery consists of the Nelson-Denny Reading Test, which measures vocabulary and comprehension, and the objective Test of Standard Written English. Scores are translated into an initial placement in English (and reading and writing, if necessary).

Only those students who present evidence of one of the following are exempt from taking the English Placement Test:

- 1. A score of 150 or above on the CSU English Placement Test.
- 2. Scores of 3, 4, or 5 on either the Language and Composition or the Composition and Literature tests of the College Board Advanced Placement Program.
- 3. A score of 600 or above on the College Board Achievement Test in English Composition with Essay.
- 4. 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 TSWE.
- 5. A score of 21 or above on the ACT English Usage Test.
- 6. An acceptable 3-semester-unit or 4-quarter-unit college English course with a grade of C or better.
  - 0 Normal exemption by means of #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.

Prerequisites: ... ENGL 100 recommendation via the placement test or satisfactory completion of ENGL 800.

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. (CAN ENGL 4)

#### ENGL 161 CREATIVE WRITING I.

Units (	Grade	Optio	n)		 	+				 	+						+						3
Class H	Hours					+				 	1	3	le	ct	u	re	h	01	ur	s/	w	ee	k
Droroa	initaa																				NT		-

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.

### ENGL 165 ADVANCED COMPOSITION.

Units 3 Class Hours 3 lecture hours/week Prerequisites: ENGL 100 Description: The logic and rhetoric of composition will be examined and practiced in this course. Modes, methods, and kinds of reasoning will be studied; compositions will be directed by formal, logical practices. The course will review formal and informal fallacies, voice, tone, and distance. Formal argument will be studied and practiced.

### ENGL 181 TECHNICAL REPORT WRITING.

Units 3 Class Hours 3 lecture hours/week Prerequisites: ENGL 100 or equivalent. Description: Designed to help the student become skilled in the basic techniques of report writing. Students will write papers about their technical areas or interests. Basic principles for achieving successful written communication - both formal and informal - are set forth.

### ENGL 800 WRITING DEVELOPMENT.

or satisfactory completion of ENGL 801.

Description: Intensive review of basic skills necessary for college level composition. Practice in writing to develop and refine specific, overall composition skills. Development of specific reading skills to reinforce the process of writing expository essays. Designed mainly to prepare students to meet com-petency standards required for entrance into ENGL 100.

### ENGL 801 BASIC WRITING SKILLS.

Units	 	3-4
Class Hours .	 	3-4 lecture hours/week
Prerequisites:	 	Eligibility determined
		by English Placement Test

Description: Prepares students for ENGL 800, and is especially recommended for students with deficient writing and reading skills. Content: writing to include sentences through expository paragraphs, with one expository essay (500 words); reading to use short non-fiction and fiction works; some work on study skills and critical thinking.

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 875 GRAMMAR REVIEW.

Units 3 Class Hours 3 lecture hours/week Prerequisites: 3 lecture hours/week Description: While primarily intended as a semester-length "brush-up" course, English 880 also serves the remedial needs of students whose English Placement Test indicates a need for stringent review. Grammar, punctuation, vocabulary, and diction are included in the course.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 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 form.

### LIT. 141 DRAMA STUDY AND APPRECIATION.

Units	(Grade	Option)					3
Class 1	Hours				3 lec	ture hours	s/week
Prereq	uisites:						None
Descri	ption: /	An introd	uction	to the l	iterary base rama. Frequ	s of drama	atic art
ance w	vill be s	stressed.	Discus	sion an	d written a	inalysis fol	llow.

LIT. 142 GREAT PLAYS: CLASSICAL AND RENAISSANCE. (Also DRAM 142)

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)

# 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 LIT. 251 WOMEN IN LITERATURE. class.

### LIT. 151 INTRODUCTION TO SHAKESPEARE I. (Also DRAM 151)

Units (Grade Option) ..... 3 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 life and times and some discussion of his poetry will be included, although the plays are the main focus of the course.

### LIT. 152 INTRODUCTION TO SHAKESPEARE II. (Also DRAM 152)

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: ENGL 100 or equivalent. Description: Study of selected plays of Shakespeare. Some discussion of Shakespeare's life and times 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 LIT. 151 and are not selected on a chronological basis.

### LIT. 191 CHILDREN'S LITERATURE.

Units (Grade Option) ..... 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 Class Hours 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.

from Chaucer to the end of the 18th Century. Discussions, lectures, writing of critical essays.

### LIT. 232 SURVEY OF ENGLISH LITERATURE II.

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. 233 SURVEY OF ENGLISH LITERATURE III.

Units (Grade Option)	
Class Hours	
Prerequisites:	ENGL 110
Description: Study of m	najor English writers of the 20th century,
including Woolf, Eliot, '	Yeats, and Huxley. Discussions, lectures,
writing of critical essays	S.

### LIT. 252 WOMEN WRITERS.

Units (Grade Option) 3
Class Hours
Prerequisites: None
Description: This course presents an overview of women
writers' literary history and then concentrates in depth on
selected writers and works.

### LIT. 266 BLACK LITERATURE.

Prerequisites: ..... None Description: Historical and literary survey of Afro-American literature emphasizing principal authors and their works from the 19th century to the present. Lectures and discussions based on readings of poetry, short stories, novels and drama; written reports. Satisfies Ethnic Studies requirement.

### LIT. 301 MASTERPIECES OF CLASSICAL AND EUROPEAN LITERATURE I.

through Renaissance Europe will be read, analyzed, discussed and enjoyed. Group work, oral reports, papers.

### LIT. 302 MASTERPIECES OF CLASSICAL AND EUROPEAN LITERATURE II.

analysis, and discussions; written reports, oral readings, and lectures.

### LIT. 341 RUSSIAN NOVEL/SHORT STORY.

Prerequisites: None Description: A study of important Russian writers from Pushkin to Solzhenitsyn. Emphasis will be on works of major writers such as Tolstoi, Dostoyevsky, and Chekhov. All works will be read in translation.

# LIT. 371 MEXICAN-AMERICAN LITERATURE.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Study (in English) of literature written by Mexi-can – Americans. Emphasis will be placed upon contemporary stories, poems, and essays. Satisfies Ethnic Studies requirement.

### LIT. 372 MYTH AND FOLKLORE OF LA RAZA.

Units (Grade Option)	
Class Hours	
Prerequisites:	None
Description: Study of the	folk literature of Mexican and Mexican-
American peoples, with	n special emphasis on their effect on
contemporary values. Sa	itisfies 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. 431 MYTHOLOGY.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Introductory survey of mythology and its relations to ritual with emphasis on classical Mediterranean culture. Reading, discussion, exams, and papers.

### LIT. 441 FILM STUDY AND APPRECIATION I.

Prerequisites: ..... None Description: Study of significant motion pictures from the early 1900s to the 1940s as an art form with emphasis on structure of film and the technique of film making. Screening of films followed by discussion and/or written analysis relating to appreciation and understanding of film as a communicative medium. May be repeated twice for credit.

### LIT. 442 FILM STUDY AND APPRECIATION II.

Units (Grade Option) 3 Class hours 3 lecture/1 lab hour/week Prerequisites None Description: Study of selected representative films (1940s to the present) from all over the world. Emphasis on the rhetoric of cinema directors' styles, and history of film. Objective: to understand film as an art and as a communicative medium. May be repeated twice for credit.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

### READ 420 SPEED/EFFECTIVE READING.

Units 3 Class Hours 3 lecture hours/week Prerequisites: Satisfactory completion of READ 802 or 10th grade comprehension score on Nelson Denny. Description: By means of individual and group work, this course

stresses increasing reading speed and reading rate flexibility. The course focuses on the various reading rates, including scanning, skimming, speed/rapid reading, average reading, analytical/critical reading, and study reading.

### READ 801 DEVELOPMENTAL READING.

reading skills. Word attack, vocabulary, and comprehension improvement are stressed. Students may enroll in the class up to the twelfth week of the semester. May be repeated three times for credit.

### **READ 802 READING IMPROVEMENT.**

Units (Credit	Unly	) .		2.6	+	 * 1	 -	 	+	 	 3.3			÷				0.5	-3	5
Class Hours .				• •		 		 			 3	10	ec	tu	re	ł	nour	s/w	eek	1
Prerequisites:			•			 		 		 	 				4.		REA	D	801	

or recommendation via ENGL Placement Test. Description: By means of individual and group work, the course stresses study skills, reading and comprehension, and vocabulary work. The course is especially recommended for those

students whose reading and study skills require short-term help. Students may enroll in the class up to the twelfth week of the semester. May be repeated twice for credit.

### WRIT 801 BASIC WRITING I.

Units (Credit Or	aly)	
Class Hours		3 lecture hours/week
		Concurrent enrollment in
		ENGL 800 or 801

Description: By means of individual and group instruction, this course concentrates on basic skills in writing, stressing sentence and paragraph composition and standard writing conventions and mechanics. May be repeated three times for credit.

### WRIT 802 BASIC WRITING II.

Units (Credit Only)	
Class Hours	3 lecture hours/week
Prerequisites:	Concurrent enrollment in

ENGL 800, 100, or 110. Description: Intended to augment writing instruction in other English courses. Emphasis is placed on organization, quality and support of ideas, language effectiveness, and various methods of essay-writing. Students may enroll up to the twelfth week of the semester. May be repeated twice for credit.

### WRIT 804 BASIC WRITING PRACTICUM.

Units (Credit Only) 0.5-3
Class Hours
Prerequisites: None
Description: Drop-in writing class. Students may come into the class any weekday between 3 p.m. and 4 p.m. To enroll, a student need only come to the writing class.
student need only come to the writing class.

# ENGLISH INSTITUTE

### E.I. 400 BASIC COMPOSITION.

E.I. 400 BASIC COMPOSITION. Units 5 lecture hours/week Prerequisites: E.I. 844 or Placement by exam.

Description: Advanced practice in writing English for students whose native language is other than English. Emphasis on the grammar, mechanics, and rhetoric of written academic English.

### E.I. 821, 822, 823, 824 GRAMMAR I, II, III, IV.

Units (Grade Option) 4 each Class Hours 4 lecture hours/week Prerequisites: Placement by exam. Description: Basic, intermediate, and advanced grammar and 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) 4 each Class Hours 4 lecture hours/week Prerequisites: ..... Placement by exam. Description: Basic, intermediate, and advanced practice in aural comprehension of English for students whose native language is other than English. Special attention to pronunciation and use of idiomatic expressions, plus practice in English conversation. May be repeated once for credit.

### E.I. 841, 842, 843, 844 WRITING I, II, III, IV.

Units (Grade Option) 4 each	ł.
Class Hours	
Prerequisites: Placement by exam.	
Description: Basic, intermediate, and advanced practice in	1
writing English for students whose native language is other than	1
English. Emphasis on the grammar and mechanics of written	
academic English. May be repeated once for credit.	

### E.I. 861, 862, 863, 864 READING I, II, III, IV.

Units (Grade Option) 4 each Class Hours 4 lecture hours/week Prerequisites: Placement by exam. Description: Basic, intermediate, and advanced practice in reading English for students whose native language is other than English. Comprehension and vocabulary development are stressed. May be repeated once for credit.

### E.I. 871, 872 CULTURAL ORIENTATION I, II.

# **ENVIRONMENT**

### ENVR 120 ECONOMIC GEOGRAPHY.

(Also GEOG 120)

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 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# FRENCH

### FREN 110 ELEMENTARY FRENCH.

Units 5 Class Hours 5 lecture hours/week Prerequisites: None 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 3 Class Hours 3 lecture hours/week Prerequisites: None Description: The basic principles of beginning French, offered at a less intense pace than French 110. One semester equals approximately half of French 110. May be used for fulfilling transfer language requirements.

### FREN 112 ELEMENTARY FRENCH II.

Units 3 Class Hours 3 lecture hours/week Prerequisites: FREN 111 Description: Further basic principles of beginning French, offered at a less intense pace than French 110. One semester equals approximately half of French 110. May be used for fulfilling transfer language requirements.

### FREN 120 ADVANCED ELEMENTARY FRENCH.

Units 5 Class Hours 5 lecture hours/week Prerequisites: FREN 110 or equivalent. Description: Conversation, dictation, further study of grammar and sentence structure; study of cognates, derivatives and idioms, reading of short stories. The student is urged to make extensive use of the listening facilities in the language laboratory.

### FREN 121 ADVANCED ELEMENTARY FRENCH I.

Units 3 Class Hours 3 lecture hours/week Prerequisites: FREN 110 or equivalent. Description: The basic principles of Advanced Elementary French, offered at a less intense pace than French 120. One semester equals approximately half of French 120. May be used for fulfilling transfer language requirements.

### FREN 122 ADVANCED ELEMENTARY FRENCH II.

Units 3 Class Hours 3 lecture hours/week Prerequisites: FREN 121 Description: Further basic principles of Advanced Elementary French, offered at a less intense pace than French 120. One semester equals approximately half of French 120. May be used for fulfilling transfer language requirements.

### FREN 130 INTERMEDIATE FRENCH.

Units 5 Class Hours 5 lecture hours/week Prerequisites: FREN 120 or equivalent. Description: Reading of short stories, plays or novels, review of grammar, conversation, composition, dictation. The student is urged to make extensive use of the listening facilities in the language laboratory.

### FREN 140 ADVANCED INTERMEDIATE FRENCH.

### FREN 161 READINGS IN FRENCH LITERATURE I.

Units 3 Class Hours 3 lecture hours/week Prerequisites: FREN 140 Description: Reading and discussion of works of French literature. Continued review of principles of grammar.

### FREN 162 READINGS IN FRENCH

LITERATURE II.

Units			. 3
		3 lecture hours/w	
Prerequisites: .		FREN	161
Description: Fu	urther reading and	discussion of works of Fre	nch
		rinciples of grammar.	

### FREN 196 FRENCH LANGUAGE LABORATORY.

Units (Credit Only) 0.5-1
Class Hours
Prerequisites:
Description: A program consisting of 25 - 50 hours of work to be
done in the language laboratory emphasizing speaking and
understanding French.

Units 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Comprehensive study of the theory and practice of pronunciation of the French language. Practical approach, with an emphasis on much oral work in class and in the language laboratory, to improve the pronunciation skills of those persons who have been, or who will be, exposed to French at some level. Background in French recommended.

 FREN 801 CONVERSATIONAL FRENCH I.
 2

 Units (Grade Option)
 2

 Class Hours
 3 lecture hours/week

 Prerequisites:
 None

 Description:
 Practical course in the French language approached

by way of conversation. Intensive 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 of California State Colleges or at the University of California.)

### FREN 802 CONVERSATIONAL FRENCH II.

Prerequisites: FREN 801 Description: Further drill in the formulas and idioms of daily speech supported with sufficient grammar to give flexibility 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 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 flexi-bility 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) 2 Class Hours 3 lecture hours/week Prerequisites: FREN 803 Description: Further advanced drill in the formulas and idioms of daily speech supported with sufficient grammar to give flexibility 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.)

A detailed description of the following courses may be found under Announcement of Courses, page 53: 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. (CAN GEOG 2)

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.

Units (Grade Option) 3 Class Hours 3 lecture hours/week 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)

Units (Grade Option) ..... 3 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.

Units (Grade Option) ..... 3 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 53: 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.	
Units (Grade Option)	3
Class Hours 2 lectu	re/
3 lab hours/we	
Prerequisites: No	ne
Description: Basic principles of igneous, sedimentary and me	ta-

morphic 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.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 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.

patterns of German; development of a satisfactory pronunciation; 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.

transfer language requirements.

### GERM 112 ELEMENTARY GERMAN II.

Units 3 Class Hours 3 lecture hours/week Prerequisites: GERM 111 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.

### GERM 120 ADVANCED ELEMENTARY GERMAN.

Units 5 Class Hours 5 lecture hours/week Prerequisites: 6ERM 110 or equivalent. 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.

### GERM 121 ADVANCED ELEMENTARY GERMAN I.

Units 3 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.

Units 3 Class Hours 2007 3 lecture hours/week Prerequisites: GERM 121 Description: Further basic principles of Advanced Elementary German, offered at a less intense pace than German 120. May be used for fulfilling language requirements.

### GERM 196 GERMAN LANGUAGE LABORATORY.

understanding German.

# GERM 801 CONVERSATIONAL GERMAN I.

Units (Grade Option) 2 Class Hours 3 lecture hours/week Prerequisites: None Description: A practical course in the German language ap-proached 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.)

### GERM 802 CONVERSATIONAL GERMAN II.

Units (Grade Option) 2 Class Hours 3 lecture hours/week Prerequisites: GERM 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 requirement at California State Colleges or at the University of California.)

### GERM 803 CONVERSATIONAL GERMAN III.

Units (Grade Option) ..... 2 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.)

### GERM 804 CONVERSATIONAL GERMAN IV.

Units (Grade Option) 2 Class Hours 3 lecture hours/week Prerequisites: GERM 803 Description: Further 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.)

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# HEALTH SCIENCE

### 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.

### HSCI 104 NUTRITION AND PHYSICAL FITNESS.

Units 1 Class Hours (6 weeks) 3 lecture hours/week Prerequisites: None Description: Study of the various aspects of good nutrition as they relate to physical fitness. Overweight, food fads, exercise are topics included.

### HSCI 105 DISEASES.

Units (Grade Option) 1
Class Hours (6 weeks) 3 lecture hours/week
Prerequisites: None
Description: Study of cause, prevention, and control of infec-
tious and noninfectious diseases. Highlights of primitive
medical practices and modern advances in fighting disease will
be discussed.

### HSCI 106 MENTAL HEALTH.

Units (Grade Option)	
Class Hours (6 weeks)	
Prerequisites:	None
Description: Study of	personality development and emotional
	avioral aspects, adjustment stress and

### HSCI 108 WOMEN'S HEALTH ISSUES.

Units (Grade Option) 1 Class Hours 3 lecture hours/week Prerequisites: None Description: Up-to-date study of how lifestyle choices influence current and future health of women. Role of diet, use of vitamin/mineral supplements and physical fitness will be stressed in each topic of the female menstrual cycle.

## HSCI 410 MICROCOMPUTER FOR HEALTH SCIENCES.

Units 1 Class Hours (8 weeks) 2 lecture hours/week Prerequisites: None Description: An introduction to microcomputers for students in Health Science related fields. Demonstrations, hands-on laboratory and applications for these fields will be provided.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# HISTORY

HIST 100 HISTORY OF WESTERN CIVILIZATION. (CAN HIST 2)

Prerequisites: ..... None Description: The rise and decline of the civilization of the ancient world, the rise of Christianity, the growth and decline of Medieval society, the Renaissance, the Reformation and the opening of the modern world.

### HIST 101 HISTORY OF WESTERN CIVILIZATION. (CAN HIST 4)

Description: The rise of modern Europe: the Enlightenment, the French Revolution, and the growth of Liberalism. The emergence of modern society, economic problems of industrializa-tion, development of modern ideologies, the World Wars and international experiments of the 20th Century.

### HIST 102 HISTORY OF AMERICAN CIVILIZATION.

Enlightenment, the Age of Revolution, growth of democracy, the problems of industrialization, the emergence of modern society, the effects of expansion of the 19th and 20th Centuries on culture of America and the role of United States in modern world. (Fulfills American Institutions requirement.)

### HIST 201 UNITED STATES HISTORY I. (CAN HIST 8)

Units (Grade Option) 3 Class Hours 3 lecture hours/week 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 202 UNITED STATES HISTORY II. (CAN HIST 10)

Reconstruction Period and explores industrial and urban expan-sion, 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.)

### HIST 205 RELIGION IN AMERICA.

in this country and its influence upon the development of American civilization.

# HIST 242 THE AFRO-AMERICAN IN U.S. HISTORY.

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 Civil War and Reconstruction, Jim Crow America, the Harlem Renaissance, the 1930s and the "modern" civil rights period. In 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.)

### HIST 310 CALIFORNIA HISTORY.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: A survey of major trends in California's growth, including the Indian cultures and their interrelationship with the Spanish discovery and colonization; the mission - rancho era; the American takeover; the Gold Rush and vigilante era; the constitutional, political, and economic growth of the state; and the contemporary social, political, economic, and environmental problems and questions of the most populous state in the Union. (Fulfills State and Local Institutions requirement.)

### HIST 315 HISTORY OF SAN MATEO COUNTY.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: A survey history of the county's development from the pre-Spanish period up to the present. Topics include: the natural setting; the Ohlone Indian culture; the Spanish discovery and settlement; the mission - rancho era; the early American period with establishment of county government; advent of lumbering, railroads, and industry; growth of Bayside and Coastside communities, airports, and industrial parks; contemporary social, economic, and political issues such as population shifts, land development, and voting trends. (Fulfills State and Local Institutions requirement.)

### HIST 421 HISTORY OF AMERICAS.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: The history of North and South America, from the times of the pre-Columbian Indian civilizations through the European conquest, to the ages of the revolutions against the European colonizing powers. (Fulfills American Institutions requirement.)

### HIST 422 MODERN LATIN AMERICA.

Units (Grade Option)
Class hours
Prerequisites:
Description: History of Latin America from independence to
present. Emphasis on Latin America's role today; problems of
Latin America, the United States, and their relationships; and
the cultural ties binding Spanish-speaking people in the U.S. to a wider identity. (Fulfills Ethnic Studies requirement.)

### HIST 451 FAR EASTERN CIVILIZATION AND HERITAGE.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: A general survey of the historical and cultural development of China and Japan. The first semester of this two-semester course will emphasize the religious, philosophical, and artistic development of these countries within the historical context and how, within these traditions, these countries meet the challenge in the 20th Century. Attention will also be given to the way in which Asian-Americans adjust and identify themselves with their cultural legacy in their new environment. (Fulfills Ethnic Studies requirement.)

### HIST 452 FAR EASTERN CIVILIZATION AND HERITAGE.

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 invasions, influences, and subsequently the intended colonialism of foreign countries. Modern political development and nationalism will also be discussed and an attempt will be made to show their ramifications on contemporary Asian-Americans. (Fulfills Ethnic Studies requirement.)

### HIST 650 SPECIAL TOPICS SEMINAR.

Units (Grade Option) ..... 1-3 cal trends of a particular period in history. The period and subject will vary upon interest of instructor and students.

### HIST 881 CURRENT ISSUES.

Units (Grade Option) 1-4 Class Hours By arrangement Prerequisites: None Description: Selected current issues 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 courses may be offered as seminar, lecture, or lecture/lab classes. See semester schedule for particular offerings. Course content and requirements will parallel standards and requirements of other NON-TRANSFER level courses. Courses focusing on single issues pertinent to the discipline. May be repeated for credit.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# HOME ECONOMICS

### H.EC 110 BEGINNING CLOTHING CONSTRUCTION. (CAN H EC 10)

(CAN H EC 10) Units (Grade Option) 3 Class Hours 3 lecture/demonstration hours/week Prerequisites: None Description: Emphasis on basic techniques, sewing machine skills, and learning to understand fabrics and patterns. For students with little or no experience in clothing construction, or for students wanting to update knowledge. May be repeated three times for credit.

H.EC 111 TECHNIQUES OF FIT. Units (Grade Option) 1-3 Class Hours 3 lecture/demonstration hours/week Prerequisites None Description: Emphasis on understanding sizing, ease, fabric variability, and individual figure problems. Effective pattern alteration by pivot and slide technique of skirts, pants and bodice patterns. This class may be offered in modules of from one to 3 units. May be repeated three times for credit.

### H.EC 112 KNITS AND WOVENS.

Units (Grade Option) 1-3 Class Hours 3 lecture/demonstration hours/week Prerequisites: None Description: Construction of garments using fabrics of varying amounts of stretch will be emphasized. Speed techniques using newest machines and notions such as sergers and rotary cutters will be included. This course may be offered in one-unit modules of a) sportswear techniques, b) combining knits and wovens, and c) lingerie and swimwear techniques. May be repeated three times for credit.

### H.EC 113 TEXTILES. (CAN H EC 6)

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Study of natural and chemical fibers; yarns and cloth construction; weaving; finishing; and dyeing. Study of purchase, use, care, and techniques of construction suitable for the different fabrics. Fabric characteristics and use in clothing will be emphasized.

### H.EC 115 INTERMEDIATE CLOTHING CONSTRUCTION

	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, buttonholes, 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. 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. (CAN H EC 20)

Units (Grade Option) 1-3 Class Hours 3 lecture hours/week Prerequisites: None 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 appearance and its effect on others. May be repeated once for credit.

### H.EC 118 FLAT PATTERN DESIGN.

Units (Grade Option) 1-3 Class Hours 3 lecture hours/week Prerequisites: H.EC 111 or 115 or equivalent. Description: Drafting a basic pattern to fit an individual figure. Use of the basic pattern and pattern-making theory to create a design will be studied. May be repeated three times for credit.

## H.EC 120 CREATIVE CLOTHING CONSTRUCTION.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: H.EC 111 or 118 or equivalent. Description: Learning how to design or copy garments by combining and/or altering 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.

hours/week
Prerequisites: None
Description: Emphasis is on constructing children's clothing using speed techniques for low cost, maximum wear and minimum care. Students will construct samples of useful techniques as well as construct children's garments. May be repeated three times for credit.

# H.EC 123 INTRODUCTION TO THE FASHION INDUSTRY.

Units (Grade Option) 3 Class Hours 3 lecture/hours/week Prerequisites: None Description: Study of the fashion industry, design and manufacture, trends, terminology, careers, and job responsibilities.

### H.EC 124 ART IN CLOTHING.

Prerequisites: None Description: Basic techniques of embellishing clothing will be covered including stitchery, machine work, painting, and beading. Originality and technical skill is emphasized. Markets for art in clothing will be researched. May be repeated three times for credit.

### H.EC 125 ALTERATIONS.

Changing hems, seams, replacing zippers, relining, mending and restyling. Designed for persons interested in alterations for self or alterations as a part-time job. May be repeated three times for credit.

### H.EC 127 CUSTOM DRESSMAKING.

Prerequisites: None Description: Emphasis on custom dressmaking and advanced alteration skills. Learn techniques and tips to make dressmaking and alterations profitable. Learn pricing, building your clientele, and other necessary skills. May be repeated three times for credit.

### H.EC 128 DECORATING WITH FABRIC.

Units (Grade Option) 1.5 Class Hours (8 weeks) 3 lecture/demonstration hours/week

Prerequisites: ..... None Description: Course covers basic techniques to make custom curtains, draperies, pillows, bedspreads, as well as table covers and accessories. Stress on selection of fabrics, determining yardage requirements, and techniques for handling large amounts of fabric. May be repeated three times for credit.

### H.EC 129 UPDATE ON TECHNIQUES.

Prerequisites: ..... None Description: Update on sewing machines and attachments, new pressing equipment, notions, interfacings, fabrics, techniques, and trends in clothing construction. May be repeated three

### H.EC 150 HISTORY OF FASHION.

times for credit.

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) 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. (CAN H EC 8)

Units (Grade Option) ..... 3 

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)

(CAN H EC 2)

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.

# H.EC 312 NUTRITION IN HEALTH AND DISEASE.

(Also BIOL 312)

Units (Grade Option) ..... 3

Description: Discussions of metabolic disorders of human body systems that require dietary modifications to compensate. 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.

H.EC 320 APPLIED NUTRITION (COOKING FOR HEALTH). 

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. Motivation, creativity, communications, delegation, money management, and record keeping will be covered. Guest speakers. May be repeated once for credit.

### H.EC 416 CONSUMER DECISION MAKING.

Units (Grade Option) ..... 3 Description: Study of the skills needed for decision making by consumers in American society. Consumerism, rights and responsibilities, 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: hours/week 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 and APPLE computers. May be repeated once for credit.

### H.EC 699 CLOTHING CONSTRUCTION LABORATORY

H.EC 699 CLOTHING CONSTRUCTION LABORATORY Units (Credit/No Credit) 0.5-1 Class Hours 2 to 6 hours/week Prerequisites: None Description: Opportunity for students to use the laboratory equipment and to get individual help from the laboratory instructor. Credit based on attendance and satisfactory progress in chill development. May be repeated 3 times for credit in skill development. May be repeated 3 times for credit.

### H.EC 830 CONSUMER ENERGY CONSERVATION.

Units (Grade Option) 0.5 Class Hours (3 weeks) 3 hours/week Prerequisites: None Description: Practical techniques of energy conservation; insula-tion, weather stripping and uses of solar energy. Guest speakers.

### H.EC 881 CURRENT ISSUES.

Units (Grade Option) 1-4 Class Hours (3 weeks) By arrangement Prerequisites: None Description: Selected current issues 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 courses may be offered as seminar, lecture/lab classes. See semester schedule for particular offerings. Course content and requirements will parallel standards and requirements of other NON-TRANSFER

level courses. Courses focusing on single issues pertinent to the discipline. May be repeated for credit.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# HUMANITIES

HUM. 100 INTRODUCTION TO THE HUMANITIES.

Prerequisites: ..... None 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 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# INTERIOR DESIGN

### INTD 115 YOUR HOME AND YOUR ENVIRONMENT.

(CAN INTD 115)

Units (Grade Option) ..... 3 

Prerequisites: ..... None Description: Analysis of the home's total environment aesthetically, physically and psychologically from the standpoint of function, beauty and cost emphasizing the fulfillment of human needs. Student project in creating a specific environment for individuals within a community. Field trips required.

### INTD 125 DETAILING INTERIORS.

Units (Grade Option)
Class Hours
Prerequisites: INTD 115
Description: To give in-depth information as to the choices for
the designing of the home and office. Two projects and a field
trip required.

# INTD 146 GRAPHICS FOR INTERIORS.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Mechanical methods of developing working drawings of designs and plans for cabinet-makers, builders, craftspeople, and clients. Course covers freehand rendering and sketching of furniture, fabrics, and accessaries to scale. Perspective 1 and 2 point drawing for presentation; furniture and isometric drawings. May be repeated once for credit.

### INTD 147 INTERIOR SPACE PLANNING.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: INTD 115, 148, ARCH 110 Description: Complete lectures proceeding room by room in the art of space planning, especially emphasizing residential designing, but with some contract planning as well. A maquette, three space planning projects, and a field trip are required. May be repeated once for credit.

### INTD 148 COLOR FOR INTERIORS.

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, decorative 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 seeking self-enrichment.

### INTD 156 PORTFOLIO/PROJECTS.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: INTD 115, 147, 148, 250 Description: Application of design principles and graphic skills to the assembly of a professional portfolio in the interior design job market with examples of drafting and space planning (floor plans, elevations, furniture arrangements) and color-fabricmaterials-furniture boards in both residential and commercial applications. Projects from previous classwork and new projects introduced to emphasize the student's particular strong points and career objectives. May be repeated once for credit.

### INTD 160 DECORATING TECHNIQUES.

Prerequisites: ..... None Description: Lecture-laboratory period will cover the application of design elements and principles phasing into the actual making of products used in interior design. Techniques of gold and silver leafing, collage, stitchery and applique, rug making, painting, glazing, and the art of patina.

### INTD 170 FABRICS FOR INTERIORS.,

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.

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 1-3 Class Hours 40-80 internship training hours required Prerequisites: INTD 115, 148 Description: Interior Design students will be placed with cooperating interior design and home furnishing businesses for 40 – 80 hours of observation and work, supervised by an Interior Design instructor. Student will be placed according to interest, background, and talent. Four hours of preparation and orientation will precede assignment. Two hours of oral and written evaluation by student and instructor will summarize the experience. May be repeated for a maximum of 4 units.

### INTD 250 PROFESSIONAL PRACTICES.

Units 3 Class Hours 3 lecture hours/week Prerequisites: INTD 115 and 147. Description: In-depth study of home furnishings sources and costs: Practical "how-to" processes of running an interior design business (setting up, bookkeeping, taxes, etc.). Projects specify sources and costing-out. Exploration of career opportunities in these areas. Field trips to sources (wholesale and retail), workrooms, and manufacturers.

### INTD 260 FUNDAMENTALS OF LIGHTING.

Units (Credit Only) 2 Class Hours (12 weeks) 3 lecture hours/week Prerequisites: ..... None Description: The aesthetics of lighting will be integrated with the basic technical information needed to understand light and its relationship to the human being and to lighting design. May be repeated once for credit.

### INTD 270 KITCHEN DESIGN.

Units (Credit Only) 3 Class Hours 3 lecture/hours week Prerequisites: None 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 BATH DESIGN.

Prerequisites: ..... None Description: Exploration of the basic principles of bath design including drawing scale floor plans, new design concepts, product availability and the use of color. Class project and field trips to product companies are required.

### INTD 274 REMODELING CONSTRUCTION

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. May be repeated once for credit.

### INTD 278 MARKETING AND SALESMANSHIP FOR INTERIOR DESIGN.

Description: Basic principles of marketing and salesmanship are covered using design principles, floor plans, elevation procedures, drawing up agreements and payment schedules for a total presentation to the client. Techniques for approaching a client from inception to completion will be covered in sequence and detail. Class project: Selection of a room and development of a presentation to class for critiquing.

### INTD 320 ORIENTAL ART FOR INTERIORS -CHINA AND KOREA.

Units (Grade Option) ..... Survey of historic and contemporary work, as seen in furniture, wood accessories, fiber, fabric, paper, ceramics, paintings, and prints, domestic architecture and interiors, and use of Oriental objects from these countries in today's interior design.

### INTD 321 ORIENTAL ART FOR INTERIORS -

JAPAN AND S.E. ASIA.

Units (Grade Option) ..... Oriental art in contemporary interiors.

### INTD 322 ORIENTAL ART FOR INTERIORS -INDIA, JAPAN, PHILIPPINES.

Prerequisites: ... ..... None Description: Study of Asian art and design themes, motifs from Japan (cont.), India, Philippines, and Persia. Study in use of Oriental art in contemporary interiors.

### INTD 330 ARCHITECTURAL INTERIOR DETAILING.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: ARCH 110 Description: Development and improvement of theory and drawing skills relating to advanced architectural interior detailing. Study and discussion of design concepts, use of materials, and how they all go together during construction. Emphasis on detail drawing procedures and techniques.

### INTD 340 CABINETRY AND FURNITURE DESIGN.

cabinets, and fixtures; display cases and wood paneling will be covered in-depth, including species of wood, joinery, and finishes.

### INTD 350, 351 COMMERCIAL DESIGN.

Class Hours .... Prerequisites: .. INTD 115, 146, 147, 148, 260, 330, ARCH 110; INTD 260 may be taken concurrently with 350.

Description: Experience in designing interiors of multiple unit 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 pre-sentation, time/work log. May be repeated once for credit.

### INTD 356 RESIDENTIAL & COMMERCIAL CONSTRUCTION.

INTD 260, 330 and 340 may be taken concurrently. Description: The student will analyze and learn the various local and state building zones, codes and laws that govern building design and obtain a thorough understanding of basic construction systems and how they relate to interior design planning.

### INTD 360 COMPUTERS FOR INTERIOR DESIGN.

Units (Grade	Option	1)	 	 																			3	
Class Hours			 	 								3	1	ec	tu	ire	e	h	οι	115	5/1	Ne	ek	
Prerequisites:			 	 	 A	ł	RC	H	I	11	10	C	r	I	N	TI	D	3	30	) (	Dr	35	50.	

BUS. 430, or equivalent computer competency. 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. May be repeated once for credit.

### INTD 365 CAD FOR KITCHEN & BATH DESIGN.

by arrangement

Prerequisites: ..... ARCH 110, BUS. 430 or BUS. 431 or computer literacy, INTD 270, 271 and 276

(INTD 271 & 276 may be taken concurrently.)

Description: Hands-on computerized kitchen/bath design to develop skills in designing, laying out and drawing kitchens and baths in accordance with industry standards, principles and techniques. Students will use specialized software and add their creativity to acquire marketable skills.

### INTD 370 CONSTRUCTION ESTIMATING.

Units (Grade Option) 3
Class Hours
Prerequisites: INTD 276, INTD 350 or INTD 351
may be taken concurrently; or equivalent experience
in the construction industry.

Description: Process of estimating costs and time covering steps to estimating, types of estimates, conditions, specifications and methods of scheduling. Categories of estimating include: civil, structural concrete, structural iron and timber, carpentry (rough and finished), thermal and moisture protection, doors, frames, windows, finish hardware, and interior finishes. Mechanical estimating (plumbing and heating) and electrical estimating in detail. Projects culminate in a public bid.

### INTD 411 HOME DECORATING.

Units (Grade Option) 3
Class Hours
Prerequisites: None
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 environ- ments. Not recommended for the career interior design major.

### INTD 450 HOME FURNISHINGS CONSUMER.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Cost and quality guides for selection of home furnishings, studied for wise decisions in purchasing carpets, hard floor coverings, furniture, antiques, lamps and lighting fixtures, appliances, wall coverings and draperies. Business/ customer relationships: credit, grievances, legislation, rights and responsibilities.

### INTD 681 CURRENT ISSUES.

### INTD 682 TRAVEL-STUDY COURSES.

Units (Grade Option) 1–5 Class Hours By Arrangement Prerequisites: None Description: Selected travel-study issues 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 courses may be offered as seminar, lecture, or lecture/lab classes. See semester schedule for particular offerings. Course content and requirements will meet standards of academic rigor required of all TRANSFER level courses, including outside reading and preparation, and strict evaluation. Courses incorporating a travel-study format. May be repeated for credit.

### INTD 881 CURRENT ISSUES.

Units (Grade Option) 1-4 Class Hours By Arrangement Prerequisites: None Description: Selected current issues 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 courses may be offered as seminar, lecture, or lecture/lab classes. See semester schedule for particular offerings. Course content and requirements will parallel standards and requirements of other NON-TRANSFER level courses. Courses focusing on single issues pertinent to the discipline. May be repeated for credit.

### INTD 882 TRAVEL-STUDY COURSES.

Units (Grade Option) 1–5
Class Hours
Prerequisites: None
Description: Selected travel-study courses not covered by regular catalog offerings. Course content and unit credit to be
determined by the appropriate division in relation to commu- nity/ student need and available staff. These innovative courses may be offered as seminar, lecture, or lecture/lab classes. See
semester schedule for particular offerings. Course content stan- dards and requirements parallel other NON-TRANSFER level courses. May be repeated for credit.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# ITALIAN

### ITAL 111 ELEMENTARY ITALIAN I.

Units (Grade Option) 3 Class Hours 3 lecture/2 lab hours/week Prerequisites: None Description: Study of and practice in the basic forms and patterns of Italian; development of satisfactory pronunciation; learning and using vocabulary of high frequency; reading of simple Italian texts. Students are urged to make extensive use of the listening facilities in the language laboratory.

### ITAL 112 ELEMENTARY ITALIAN II.

Units (Grade Option) 3 Class Hours 3 lecture/2 lab hours/week Prerequisites: ITAL 111 Description: Further basic principles of beginning Italian. Conversation, composition, important Italian idiomatic expressions, pronouns, verbs in future and past tense. Students are expected to make extensive use of the listening facilities in the language laboratory.

### ITAL 801 CONVERSATIONAL ITALIAN I.

Units (Grade Option)
Class Hours
Prerequisites: None
Description: A basic course in conversational Italian, with
attention to pronunciation. (This course will not fulfill language
requirement at California State Colleges or at the University of
California.)

### ITAL 802 CONVERSATIONAL ITALIAN II.

Units (Grade Option) 2 Class Hours 3 lecture hours/week Prerequisites: ITAL 801 Description: Further work in basic grammar idioms, and pronunciation. May be repeated once for credit. (This course will not fulfill language requirement at California State Colleges or at the University of California.)

### ITAL 803 CONVERSATIONAL ITALIAN III.

Units (Grade Option) 2 Class Hours 3 lecture hours/week Prerequisites ITAL 802 Description: Further work with dialect and variation in Italian by means of drill, recitation, and reading. May be repeated twice for credit. (This course will not fulfill language requirement at California State Colleges or at the University of California.)

### ITAL 804 CONVERSATIONAL ITALIAN IV.

Units (Grade Option)	2
Class Hours	ek
Prerequisites: ITAL 8	02
Description: Further advanced work with dialect and variati in Italian by means of drill, recitation, and reading. May repeated twice for credit. (This course will not fulfill langua requirement at California State Colleges or at the University California.)	on be ge

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# **JAPANESE**

### JAPA 801 CONVERSATIONAL JAPANESE I.

Units (Grade Option) 2 Class Hours 3 lecture hours/week Prerequisites: None Description: A basic course in conversational Japanese, with attention to pronunciation and symbol translation. Students will be taught the ability to express themselves simply and clearly in Japanese, and to understand Japanese spoken to them. (This course will not fulfill language requirement at California State Colleges or at the University of California.)

### JAPA 802 CONVERSATIONAL JAPANESE II.

Units (Grade Option) 2 Class Hours 3 lecture hours/week Prerequisites: JAPA 801 Description: Further work in basic grammar, idioms and pronun-ciation. (This course will not fulfill language requirement at California State Colleges or at the University of California.)

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# **IOURNALISM**

### JOUR 110 INTRODUCTION TO MASS MEDIA (CAN JOUR 4).

Prerequisites: ..... None Description: Study of the historical background and modern functioning of the press (newspaper, radio, magazine, television) in a democratic society, and the virtues and shortcomings of each. The rights and duties of journalists, and the legal limits of the liberty of the press are studied.

### JOUR 120 NEWSWRITING.

Units 3 Class Hours 3 lecture hours/week Prerequisites: JOUR 110 and eligibility for ENGL 100. Description: A study of the techniques of news gathering, of judging news values, and of writing the news story. Instruction in production of the student newspaper and in the principles of responsible editorial decision making. May be repeated three times for credit.

### JOUR 220 INTRODUCTION TO ADVERTISING.

Units 3 Class Hours 3 lecture hours/week Prerequisites: None Description: This course will include a broad and comprehensive view of principles and procedures involved in planning and preparation of advertising campaigns. The structure and man-agement of an advertising agency will be covered, with each 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.

Description: This course will cover the principles, history, and professional practice of public relations. Emphasis will be placed on the process of influencing public opinion, effective communi-cation techniques, and the basic steps in public relations programming.

### JOUR 300 NEWSPAPER PRODUCTION.

Units 2 Class Hours 3 lab hours/week Prerequisites: ..... JOUR 120 (may be taken simultaneously). Description: Production of the student newspaper and instruc-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 53: 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)	 
Class Hours	 3 lab hours/week
Prerequisites:	 None
Description: A self-paced	

with the variety of information resources available in academic libraries; effective use of such services and resources as magazines, 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 53: 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)
 3

 Class Hours
 3 lecture hours/week

 Prerequisites:
 None

 Description: An overview of management theory as applied in both the private business and public sectors. Emphasis will be placed on theory, practice, and organization, and how they are applied to the major functions of management.

MGMT 105 FINANCIAL MANAGEMENT FUNDAMENTALS.

Prerequisites: ..... ACTG 121. Description: Introductory course whereby students can experi-ment with and gain a real-world understanding of the theories, concepts, tools, and techniques of finance. Course will present financial business situations and enable the student to study and analyze financial problems of both small and large business 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) 3
Class Hours	
Prerequisites:	None
Description:	Employee/management relations emphasizing:
wage systems	, working conditions, productivity, union organi-
zations, colle	ctive bargaining, and unemployment. Labor/

management conflicts from the point of view of wage earner, employer, general public, and governments.

### MGMT 136 BUDGET AND PLANNING.

Prerequisites: ..... ..... None Description: The course is designed to give the management 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.

Prerequisites: ..... ..... MGMT 136 Description: This course is designed to give the management student a basic understanding of performance measurement techniques presently being used in business and government. Emphasis will be placed on philosophy, techniques, and out-comes of performance appraisals as mechanisms for professional growth and development.

# MGMT 215 MANAGEMENT OF HUMAN RESOURCES.

Units (Grade Option) 3 Class Hours 9 Prerequisites: None Description: Introductory course to develop understanding of the personnel function including selection and placement, wage and salary procedures, affirmative action programs, performance appraisals, training and staff development.

# MGMT 220 ORGANIZATIONAL BEHAVIOR.

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

MGMT 235 TECHNIQUES OF SUPERVISION.

(Also BUS. 235)

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. Leadership and creativity in supervision. How to establish and maintain effective communications in the workplace.

# MGMT 240 ORGANIZATIONAL LEADERSHIP.

Description: Introduction to the motivational aspects of leadership. Examines how individuals react to different styles of leadership. Students will examine their own management practices and beliefs in order to gain insight into how these might be changed in order to become more effective. Techniques for assessing organizational climate.

### MGMT 281 PUBLIC ADMINISTRATION MANAGEMENT. 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) 3 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 management; special assessments; capital improvement budgeting.

### MGMT 283 PUBLIC PERSONNEL ADMINISTRATION.

Prerequisites: ..... None Description: The course will provide a comprehensive analysis of personnel administration in the public sector. Topics will include the historical development of public personnel administration; values in public personnel administration; recruit-ment, selection, and placement of personnel; productivity management; compensation issues; affirmative action and EEO; performance appraisals; and labor-management relations.

### MGMT 881 CURRENT ISSUES.

Units (Grade Option) ..... 1-4 Class Hours By Arrangement Prerequisites: None Description: Selected current issues 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 courses may be offered as seminar, lecture, or lecture/lab classes. Course content and requirements will parallel standards and requirements of other NON-TRANSFER level courses. Courses focusing on single issues pertinent

to the discipline. May be repeated for credit.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 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.

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

Class Hours Prerequisites: MATH 120 with a grade of C or better or satisfactory score on Math Placement Test #3.

Description: The study of the number systems designed for prospective elementary education majors. Emphasis on understanding operations with whole numbers, fractions and decimals. Additional topics may include problem solving strategies, numeration systems and elementary number theory. Meets requirements of California Administration code of elementary school credential and/or Liberal Studies credential (multiple subject).

### MATH 110 ELEMENTARY ALGEBRA.

Description: Elementary Algebra through quadratic equations. Satisfactory completion of this course will fulfill in part the mathematics entrance requirements of the universities.

### MATH 111, 112 ELEMENTARY ALGEBRA.

(Evening Only)

Description: These two courses are equivalent to MATH 110. Recommended for those who have not previously had elementary algebra.

### MATH 115 GEOMETRY.

semesters of high school algebra with grades of C or better.

Description: A study of the properties of plane and solid figures, using formal logic and the real number system. Some non-Euclidean, projective and topological elements are included.

### MATH 120 INTERMEDIATE ALGEBRA.

Units 5 Class' Hours 5 lecture/1 lab hours/week Prerequisites: MATH 110 with grade of C or better, or two semesters of high school math with grades of C or better or satisfactory score on Math Placement Test #2. 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.

semesters of high school mathematics with grades of B or better. Satisfactory score on Math Placement Test #3.

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 125 ELEMENTARY FINITE MATHEMATICS. (CAN MATH 12)

Prerequisites: ... MATH 120 or 121 with grade of C or better. Satisfactory score on Math Placement Test #3.

Description: Introduction to finite mathematics with attention to set theory, counting theory, probability, systems of equations, vector and matrix theory, inequalities and linear programming.

MATH 130 ANALYTICAL TRIGONOMETRY. (CAN MATH 8) Prerequisites: . MATH 115 and 120 or 121 (or equivalent) with grade of C or better; or six semesters of high school math with grades of C or better.

Satisfactory score on Math Placement Test #3.

Description: Trigonometric functions of real numbers and angles, their graphs and periodicity; reduction formulas; functions of multiple angles; identities and equations; radian measure; inverse functions, logarithms and exponents, solution of triangles; complex numbers and De Moivre's theorem.

MATH 200 ELEMENTARY PROBABILITY AND STATISTICS. (CAN STAT 2)

better, or high school preparation including two years of algebra with grade C or better, or satisfactory score on Math Placement Test #3.

Description: Descriptive statistics; pie charts, hisograms, frequency polygons, ogives. Averages; mean, median, mode, midrange, weighted mean. Probability; addition & multiplication rules, complements & odds, combinations & permutations. Probability Distributions; random variables, mean, variance, and expectation, binomial, normal, normal approximation to binomial, central limit theorem. Hypothesis Testing-one and two parameters; type 1 and type 2 errors, P-values, z and t tests, means, proportions, variances. Estimates and Sample Sizes; means, proportions, variances. Correlation and Regression; correlation, regression, variation, multiple regression. Chi-Square and Analysis of Variance; multinomial experiments, contingency tables, analysis of variance (equal and unequal sample sizes). Nonparametric Statistics; sign test, Wilcoxon signed-rank test (dependent and independent samples), Kruskal-Wallis test, rank correlation, runs test for randomness. Optional Topics; Bayes' Theorem, hypergeometric distribution, time series, computer projects.

### MATH 219 PRE-CALCULUS COLLEGE ALGEBRA/ TRIGONOMETRY.

Units 5 Class Hours 5 lecture hours/week Prerequisites: MATH 130 or equivalent with grade of C or better, or seven semesters of high school level mathematics with grades of C or better. Satisfactory score on Math Placement Test

Description: Unification of college algebra and analytical trigonometry based on the function concept. Topics include: properties of the real number, system, inequalities, theory of equations, complex numbers, logarithmic and exponential functions, matrices, biomial theorem, sequence inverse functions.

### MATH 220 PRE-CALCULUS COLLEGE ALGEBRA. Units

better; or high school preparation including two years of algebra, one year of geometry and one semester of trigonometry with grade of C or better. Satisfactory score on Math Placement Test #3.

Description: Study of more advanced algebra including such topics as theory of equations, complex numbers, logarithmic and exponential functions, matrices, vectors, binomial theorem, sequences.

### MATH 241, 242 APPLIED ANALYTIC GEOMETRY AND CALCULUS. (CAN MATH 30, CAN MATH 32)

Units 5, 5 Class Hours 5 lecture hours/week Prerequisites: 241 — High school preparation including two years of algebra, and one year of geometry with grade B or better or MATH 121 or MATH 120. 242 — MATH 241 with grade

of C or better. Satisfactory score on Math Placement Test #3. 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 selected topics.

### MATH 251 ANALYTICAL GEOMETRY AND CALCULUS. (CAN MATH 18)

Units ..... 5 Class Hours 5 lecture hours/week Prerequisites: ... MATH 220 with grade of C or better; MATH 120 or 121 and MATH 130 with grade of C or better; or seven semesters of high school level mathematics, each with a grade of B or better. Satisfactory score on Math Placement Test #3.

Description: Basic concepts of calculus. Includes plane analytic geometry, differentiation, integration, differentials and anti-derivative formulas; application.

### MATH 252, 253 ANALYTICAL GEOMETRY AND CALCULUS. (CAN MATH 20, CAN MATH 22)

Units 5 lecture hours/week for each Class Hours 5 lecture hours/week for each Prerequisites: 252—Completion of MATH 251 (or equivalent) with grade of C or better. 253—MATH 252 with a grade of C or better.

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.

### MATH 275 ORDINARY DIFFERENTIAL EQUATIONS.

Units 3 Class Hours 3 lecture hours/week Prerequisites: MATH 253 (or equivalent) with grade C or better. When approved by the instructor, may be taken concurrently with MATH 253.

Description: Differential equations of first, second and higher order; simultaneous, linear, homogeneous equations; solutions by power series; numerical methods; Laplace transformations, and applications.

### MATH 410 TECHNICAL MATH.

Units 3 Class Hours 3 lecture hours/week Prerequisites: . MATH 110 or 111 and 112 with a grade of C or

better or satisfactory score on Math Placement Test #2. Description: A survey of fractions, reciprocals, similar triangles, proportions, sine, tangent relationships, inverse law and graphing.

### MATH 811 PRE-ALGEBRA.

units.

Prerequisites: ..... None 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

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# MICROBIOLOGY

MBIO 240 GENERAL MICROBIOLOGY.

Units Class Hours (Spring Only) ..... 3 lecture, 6 lab hours/week Prerequisites: ... One semester of college chemistry and either BIOL 110, 130, BOTY 240 or ZOOL 210.

Not open to first semester freshmen.

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 standard methods employed in water and milk analysis.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# MICROCOMPUTER TECHNICIAN

### CTEC 400 TECHNICAL CALCULATIONS AND STUDY SKILLS.

.. 3.5 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 meaning in technical talk and text. Instruction in the use of the scientific calculator to solve numerical problems in basic electronics.

### CTEC 420 DIRECT AND ALTERNATING CURRENT FUNDAMENTALS.

Units 5 Class Hours Five 3 - hour lectures plus five 3 - hour lab/week for 4 weeks Prerequisites: Completion of CTEC 400. Description: Lecture and accompanying laboratory work in the 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.

Units	2.5
Class Hours	Five 3-hour lectures
	plus five 3-hour lab/week for 2 weeks
Prerequisites:	Completion of CTEC 420
	with a grade of C or better.
Description: Study of th	theory and application of diada and

transistor devices. Biasing techniques for amplifier and switching circuits and analysis of their behavior. Use of laboratory

instruments and basic troubleshooting techniques for solid state devices and simple circuits.

### CTEC 460 DIGITAL DEVICES AND CIRCUITS.

plus five 3-hour lab/week for 4 weeks

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.

### CTEC 500 MICROPROCESSOR PRINCIPLES.

Prerequisites: ..... Completion of CTEC 460 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 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.

### CTEC 520 MICROPROCESSOR INTERFACING APPLICATIONS.

Units	
Class Hours	Five 3-hour lectures
	plus five 3-hour lab/week for 3 weeks.
Prerequisites:	Completion of CTEC 500
	with a grade of C or better

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.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# MUSIC

MUS. 100 FUNDAMENTALS OF MUSIC. Units (Grade Option) 3 Class Hours 3 lecture/1 lab hour/week Prerequisites: ..... ..... None Description: Basic musical skills - singing, ear training, reading music notation, and harmonizing simple melodies. May not be applied toward the degree by the student whose major is music; suggested for a preliminary course to MUS. 101 and 131. Suggested for the elementary classroom teacher and the amateur musician.

### 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.

Prerequisites: MUS. 101 Description: Further work on music notation, keys, key signature, intervals, sight reading, ear training.

### MUS. 131 HARMONY I.

Prerequisites: ..... None Description: Study of chords and their relation to each other, in 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. Usually taken concurrently with MUS. 101 & 103; some piano ability is essential.

### MUS. 132 HARMONY II.

Units	***********		
Class Hours .			ecture/1 lab hour/week
Prerequisites:	**********		MUS. 131
Description: For other.	urther study of	of chords and	l their relation to each

### MUS. 190 FINE ARTS FOR CHILDREN. (Also ART 190)

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None 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.

### MUS. 202 MUSIC APPRECIATION AND SURVEY.

Units (Grade Option) 3 Class Hours 3 lecture/1 lab hour/week Prerequisites: None Description: Music literature and history with emphasis on understanding and appreciation of the art. A text, illustrated lectures, and directed listening constitute the procedure of the course. One hour per week directed listening in the library is required. This course is for non-music majors, as well as music majors.

### MUS. 301, 302, 303, 304 PIANO.

Units (Grade Option) 2 each
Class Hours
Prerequisites: None
Description: A course in applied music with stress on technical
and interpretive skills. Individual attention and advancement.

### MUS. 305, 306, 307, 308 KEYBOARD HARMONY.

Units (Grade Option) ..... 2 each Description: This course gives students hands-on keyboard proficiency in performing the harmonic theory studied in MUS. 131, 132, 133, 134; reinforces their aural perception of harmonic progressions; provides instruction for transposition; and lays foundation for improvisation at the keyboard. Some pianistic ability is helpful but not required.

### MUS. 321, 322, 323, 324 BRASS INSTRUMENTS I, II, III, IV.

Units 1 each Class Hours 3 lecture/5 lab hours/week Prerequisites: ... Concurrent enrollment in Band or Orchestra. Description: Techniques of playing the instrument of the student's choice, with individual instruction. The course may be repeated for credit. Grades will be determined by jury audition.

### MUS. 325, 326, 327, 328 ADVANCED BRASS INSTRUMENTS I, II, III, IV.

# Units \_\_\_\_\_\_1 each Class Hours \_\_\_\_\_\_3 lecture/5 lab hours/week 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.

Units 1 each Class Hours 3 lecture/5 lab hours/week Prerequisites: Concurrent enrollment in Band or Orchestra. Description: Techniques of playing the instrument of the stu-dent's choice with individual instruction. Grades will be determined by jury audition.

MUS. 345, 346, 347, 348 ADVANCED WOODWIND INSTRUMENTS I, II, III, IV. Units 1 each Class Hours 3 lecture/5 lab hours/week 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. The course is a parallel course to the applied music major study at California State Colleges.

### MUS. 361, 362, 363, 364 STRING INSTRUMENTS I, II, III, IV.

Units 1 each Class Hours 2 in the concurrent enrollment in Orchestra. Description: Techniques of playing the violin, viola, cello or string bass, with individual instruction and ensemble playing. Grades will be determined by jury audition.

# MUS. 365, 366, 367, 368 ADVANCED STRING INSTRUMENTS I, II, III, IV.

Units 1 each Class Hours 2 in a concurrent enrollment in 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. 371 GUITAR I.

Units (Grade Option) 1 Class Hours 3 lecture/lab hours/week Prerequisites: Possession of a guitar. Description: Basic techniques of playing the guitar. Group and individual attention.

MUS. 372,373, 374 GUITAR II, III, IV. Units (Grade Option) 1 Class Hours 3 lecture/lab hours/week Prerequisites: MUS. 371 Description: Advanced techniques of playing the guitar. Group and individual attention.

### MUS. 391, 392, 393, 394 PERCUSSION INSTRUMENTS I, II, III, IV.

Units I each Class Hours 3 lecture/5 lab hours/week Prerequisites: ... Concurrent enrollment in Band or Orchestra. Description: Techniques of playing the various percussion instru-ments, including mallet instruments, with class instruction, individual instruction and ensemble participation.

# MUS. 401, 402, 403, 404 SOLO VOICE I, II, III, IV.

Prerequisites: None Description: Vocal problems analyzed and corrected through exercises and songs. Class sessions and individualized instruction.

### MUS. 405, 406, 407, 408 ADVANCED SOLO VOICE, 1, 11, III, IV.

Units 1 each Class Hours 3 lecture hours/week Prerequisites: . Successful completion of jury examination prior to each semester.

Description: Advanced problems in vocal performance and technique. This course is a parallel course to the applied music major study at California State Universities.

# MUS. 440 SYMPHONY ORCHESTRA.

strated 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.

# MUS. 441, 442, 443, 444

 MUS. 441, 442, 443, 444

 ORCHESTRA I, II, III, IV.

 Units (Grade Option)
 2 each

 Class Hours
 5 lecture hours/week

 Prerequisites:
 MUS. 321, 341, 361 or equivalent demonstrated

 ability

Description: Study and performance of standard literature and techniques for chamber and orchestral ensembles. Performance is required. Each semester covers material differing from preceding semesters.

### MUS. 461, 462, 463, 464

INSTRUMENTAL ENSEMBLE I, II, III, IV.

Description: Brass, String, and Woodwind ensemble. Performance is required.

# MUS. 471, 472, 473, 474 CHOIR, I, II, III, IV.

 MOS. 471, 472, 473, 474 CHOIR, I, II, III, IV.
 1 each

 Units (Grade Option)
 1 each

 Class Hours
 3 lecture hours/week

 Prerequisites:
 None

 Description: Study and performance of choral literature for

 accompanied and unaccompanied choir. Performance is

 required. Field trips may be required.

# MUS. 481, 482, 483, 484 COLLEGE SINGERS.

Units 2 each Class Hours 5 lecture hours/week Prerequisites: Demonstrated ability through audition; concurrent registration in MUS. 471, 472, 473, or 474.

Description: An advanced ensemble specializing in the perform-ance of choral literature for small choir. Repertoire includes both traditional and "popular" contemporary styles. Performance is required. Field trips may be required.

### MUS. 490 MASTER CHORALE.

Units (Grade	Option)	······ 1
cluss riburs		++++++++++++++++++++++++++++++++++++++
Prerequisites:		Previous choral experience

and demonstrated ability through auditions. Description: Rehearsal and performance of oratorios and other choral literature. Performance is required. May be repeated three times for credit.

Units 1–3 Class Hours By Arrangement Prerequisites: Audition Description: Training in chorus, instrumental, and solo parts of staged musical shows or opera. Units depend on the hours the part demands. May be repeated three times for credit.

### MUS. 496 MUSIC RECITALS.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# NATURAL SCIENCES

### NSCI 100 INTRODUCTION TO NATURAL SCIENCES.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: An overview of the natural sciences, emphasizing their impact upon modern society. Descriptive material taken from both biological and physical sciences. Emphasis is upon recent discoveries which have affected modern living.

# **OCEANOGRAPHY**

### OCEN 100 OCEANOGRAPHY.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# **OFFICE SKILLS**

See BUSINESS/OFFICE SKILLS

# OPHTHALMIC DISPENSING

OPTH 400 INTRODUCTION TO OPHTHALMIC OPTICS.

Units	
Class Hours	3 lecture hours/week
Prerequisites:	Concurrent enrollment in
and a state of the	MATH 410.

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.

### MUSIC - OPHTHALMIC DISPENSING

### **OPTH 411 OPHTHALMIC LAB TECHNIQUES I.**

### **OPTH 412 OPHTHALMIC LAB TECHNIQUES II.**

### **OPTH 431 OPHTHALMIC LENSES.**

### **OPTH 441 OPHTHALMIC FABRICATION.**

### OPTH 460 ANATOMY AND PHYSIOLOGY OF THE EYE.

### **OPTH 471 OPHTHALMIC DISPENSING TECHNIQUES I.**

Units 3-5 Class Hours 3 lecture, 1 lab hour/week Prerequisites: Must be combined with OPTH 431 or 680 for a minimum total of 4 units.

Description: This course combined with the student's employment is designed to turn the student into a thinking, working optician. The first part emphasizes basic dispensing skills and proceeds to deeper theory and its application.

### **OPTH 472 OPHTHALMIC DISPENSING TECHNIQUES II.**

### **OPTH 491 CONTACT LENSES I.**

Units 4 Class Hours 3 lecture, 3 lab hours/week Prerequisites: 0PTH 460 Description: This course presents the introductory material for 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 3.5 Class Hours 0.7 Prerequisites: 0.7 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 pharma-cology, 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.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# PALEONTOLOGY

### PALN 110 ANCIENT LIFE AND PAST ENVIRONMENTS.

Units	
Class Hours	3 lecture hours/week,
	1 all-day field trip.

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.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# PARALEGAL

### LEGL 249 INTRODUCTION TO LEGAL SYSTEM.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: This course will provide an entering student with an introduction to the role of a paralegal, an overview of the U.S. legal system, and an introduction to the substantive areas of law taught in the paralegal program.

### LEGL 250 LEGAL RESEARCH AND BIBLIOGRAPHY.

Description: The student is introduced to reading and briefing 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 251 TORTS AND CONTRACTS.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: LEGL 259 or concurrent. Description: Study of the various torts that make up the body of the substantive law of torts, including the basis of tort liability, the elements of actionable torts, and remedies and procedure; study of the basic law of contracts, including the elements of a contract, factors affecting their validity, construction and interpretation, and termination or rescission.

### LEGL 252 TRIAL PREPARATION AND STUDY OF LEGAL ETHICS.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: LEGL 259 or concurrent. Description: Introduction to the basics of trial practice and litigation; procedural law, including jurisdiction, venue, statutes of limitation and service of process; commencement of the lawsuit, preparation of pleadings and motions; discovery and fact investigation; pretrial considerations, preserving facts and preparation for trial; mock trial; post-trial motions and appeal; introduction to the ethical standards of the legal profession.

### LEGL 253 PROBATE ADMINISTRATION.

Units (Grade Option) 3 Class Hours 3 lecture hours/week 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.

### LEGL 254 FAMILY LAW.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: LEGL 259 or concurrent. 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.

### LEGL 255 CORPORATIONS AND BUSINESS ENTITIES.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: LEGL 259 or concurrent. Description: Basic orientation in business organizations involving sole proprietorships and partnerships with particular emphasis on corporations, and procedures for qualifying a foreign corporation in California.

### LEGL 256 REAL ESTATE AND LANDLORD - TENANT.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: LEGL 259 or concurrent. 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.

### LEGL 257 BANKRUPTCY AND DEBT COLLECTION.

Units (Grade Option) 3 A Class Hours 3 lecture hours/week Prerequisites: LEGL 259 or concurrent. Description: General outline of bankruptcy court; administration of bankrupt estates by receivers and trustees; preparation of schedules in voluntary cases, taking into consideration available exemptions.

### LEGL 258 ADVANCED TRIAL PREPARATION.

Units (Grade Option) ..... primarily focusing on discovery matters and other aspects of trial preparation.

### LEGL 260 ADVANCED LEGAL RESEARCH AND WRITING.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: LEGL 250, 259 Description: Student will undertake legal research and writing projects in a variety of subject areas.

### LEGL 280 PARALEGAL INTERNSHIP.

40-120 work hours/semester Prerequisites: LEGL 249, 250 and 252. Description: Students, supervised by Paralegal instructor, will work 40-120 hours as legal assistants at cooperating legal offices/departments in the community. Students will be placed according to interest, background, skills, and talent. Six hours of preparation and orientation precede assignment. Two hours of oral and written evaluation by student and teacher summarize experience and skills learned.

### LEGL 880 PARALEGAL CAREER FORUM.

Units (Credit/No credit) ..... Class Hours ...... 8 lecture hours Prerequisites: ..... ..... None Description: Student will get first-hand information on the paralegal profession from experts in various specialties; discussion of local, state, and national issues facing the paralegal profession; opportunity for small discussion groups to interact with paralegals, legal administrators, and paralegal supervisors.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# PHILOSOPHY

ledge.

### PHIL 100 INTRODUCTION TO PHILOSOPHY.

Units (Grade Option) 3 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 know-

### PHIL 103 CRITICAL THINKING.

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-ANCIENT AND MEDIEVAL.

### Units (Grade Option) ..... 3 Class Hours ...... 3 lecture hours/week Renaissance. Selections from representative philosophers and/or schools: Pre-Socratic; Plato; Aristotle; philosophy of the Roman world; Christian and early rationalist thought. Analysis of attempts to resolve fundamental metaphysical, epistemological and ethical questions.

### PHIL 175 HISTORY OF PHILOSOPHY - 16TH TO **19TH CENTURY.**

Units (Grade Option) 3
Class Hours
Prerequisites: None
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.

Units (Grade Option) 3
Class Hours
Prerequisites: None
Description: Emphasis on trends in 19th and 20th Century
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.

### PHIL 200 INTRODUCTION TO LOGIC.

Units (Grade Option) ..... 3 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 be part of the inquiry.

### PHIL 240 INTRODUCTION TO ETHICS.

Units (Grade Option) 3
Class Hours
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.
and Anstone, Augustine, Rant, Otintananishi, and Relativishi.

### PHIL 300 INTRODUCTION TO WORLD RELIGIONS.

Units (Grade Option) ..... 3 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
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) 3 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.

# PHIL 650 SEMINAR IN PHILOSOPHY.

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 advanced problems in philosophy.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 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) 0.5–1.5 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.

# ADAP 351 WEIGHT TRAINING FOR THE

PHYSICALLY LIMITED. Units (Grade Option) 0.5–1.5 Class Hours 3 lab hours/week Prerequisite: Verification of limiting condition on file. Description: Use of the Universal gym and other free weights to increase overall strength and flexibility.

geared toward the development of motor coordination and improvement of physical fitness.

### ADAP 353 FITNESS FOR THE DISABLED OLDER ADULT.

Description: Instruction in safe stretching exercises designed to sustain or improve flexibility, circulation, and muscular endurance. 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. 0.5 Units (Grade Option) 0.5 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 3 lab hours/week Prerequisites: None Description: Instruction in water adjustment, treading, floating, breathing techniques, crawl, breaststroke, sidestroke, backstroke, and elementary diving; also personal water safety procedures. Class is divided by levels of ability.

# COMBATIVES

### COMB 401 SELF DEFENSE I.

Units (Grade Option) ..... 1.5 Prerequisites: ..... None Description: Designed for students to gain knowledge about basic self-defense. Areas covered will be mental 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 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# DANCE

### DANC 111 BEGINNING MODERN DANCE.

Prerequisites: ..... None Description: Basic modern dance techniques, ballet techniques for proper body alignment, balance, flexibility and rhythmic coordination. Emphasis on movement technique and simple combinations.

### DANC 112 BEGINNING/INTERMEDIATE MODERN DANCE.

Units (Grade Option) 2 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 11	2 or equivalent.
Description: Synthesis of previous dance experie modern technique, group improvisations and re ence.	ence. Advanced

### DANC 130 INTRODUCTION TO JAZZ.

Units (Grade Option)			
Class Hours		4 lab	hours/week
Prerequisites:			None
Description: Designed will provide the stu isolation of body par music.	d for the stude	ent who has had basic movement	no dance. It techniques.

### DANC 131 BEGINNING JAZZ.

Units (Grade Option)	1
Class Hours	/week
Prerequisites:	None
Description: Elementary jazz techniques, foot and leg de	velop-
ment, isolation of body parts and a rhythmic appreciation	of jazz
musicians and music.	

### DANC 132 BEGINNING/INTERMEDIATE JAZZ.

Prerequisites: ..... None Description: Continuation of Beginning Jazz with emphasis on additional techniques and more lengthy jazz combinations.

### DANC 140 BALLET.

rhythmic structures, qualities of movement, and the classical terminology are presented.

### DANC 143 INTERMEDIATE BALLET.

Units (Grade Option) ..... 1 Class Hours 3 lab hours/week Prerequisites: DANC 140 Description: Continuation of DANC 140, concentrating on barre, center floor and dance variations.

### DANC 330 CREATIVE DANCE.

Prerequisites: ..... None Description: Designed for the student who has had no dance. It will provide the student with basic movement. Technique, the use of props, elements of music, and the opportunity to learn several dances.

### DANCE 350 DANCE AEROBICS.

Units (Grade Option) 1–2 Class Hours 2–5 lab hours/week Prerequisites: None Description: Warm up, toning exercises, vigorous dance se-quences, cool down and stretching are presented to upbeat pop music. Safely working at one's own pace is emphasized.

### DANC 400 DANCE PRODUCTION.

Units (Grade Option) 2 Class Hours 4 lab hours/week 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 53: 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 tests will be conducted measuring improvement in 1) workload 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 105 FITNESS FOR LIFE.

Prerequisites: ..... None Description: Designed to be a complete fitness experience. Emphasis on cardiovascular fitness, flexibility, strength, and knowledge of physical fitness, well being and the human body.

A fitness evaluation is required of each student new to the program; cost is \$20. Fitness counseling, based on the student evaluations, and fitness certification exams at the end of each semester are also required.

### FITN 140 EXERCISE APPRECIATION I.

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.

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.

### FITN 165 WOMEN'S RESISTIVE FITNESS I.

Units (Grade Option) 1.5 Class Hours 3 lab hours/week Prerequisites: None Description: Course is designed to acquaint students with the various pieces of weight conditioning equipment emphasizing correct techniques and safety. Proper lifting form, correct breathing formats will be emphasized. The basic lifts offered 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.

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.

### FITN 204 INTERMEDIATE/ADVANCED WEIGHT CONDITIONING.

Units (Grade	Option)			1.5
Class Hours			3 lab	hours/week
Prerequisites:			. FITN 201 or	equivalent.
Description:	Progressive	skills and	weight deve	lopment in
			Opportunitie	

specialize in different areas of the body. Development of individual programs encouraged.

### FITN 315 POWER ACTIVITIES.

Units (Grade Option) 1 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 conditioning. All requirements are related to the individual's age and ability groupings.

### FITN 430 CANADA FITNESS INSTITUTE.

Units (Grade Option) 1 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 recommended.

### FITN 431 CANADA FITNESS INSTITUTE LABORATORY I.

Units (Grade Option) 1 Class Hours 2 lab hours/week

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 administered. Working and resting blood pressures are monitored. Levels of fitness ascertained and evaluated by student-teacher conferences.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# INDIVIDUAL SPORTS

### INDV 121 BEGINNING BADMINTON.

Prerequisites: ..... None Description: Provide instruction in the basic fundamentals of the game of badminton. Techniques of singles and doubles play will be covered. Rules of the game, as well as basic strategy are included.

### INDV 124 INTERMEDIATE/ADVANCED BADMINTON.

Units (Grade Option) 1–1.5 Class Hours 2–3 lab hours/week Prerequisites: INDV 121 or equivalent. Description: Review of basic fundamentals of the game. Serve, drive, clear and drop shot reviewed and drilled upon. Strategy of play, both singles and doubles, as well as more advanced strokes will be covered. Tournament play for both singles and doubles will be offered.

### INDV 161 BEGINNING GOLF.

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 164 INTERMEDIATE/ADVANCED GOLF.

Units (Grade Option) 1 Class Hours 2 lab hours/week Prerequisites: Demonstrated skill. Description: Extension of the fundamentals learned in Elementary Golf; considerable emphasis is placed on the competitive aspects of golf; tournament play is a major part of the course. Sessions are conducted at Cañada College and Emerald Hills golf course.

### INDV 166 EXPERT GOLF TRAINING.

Units (Grade Option) 1 Class Hours 2.5 lab hours/week Prerequisites: Demonstrated skill. Description: Course is designed for students of expert golf ability who wish to develop their golf skills for competitive purposes. Instruction in the fundamentals as well as use of drills designed to improve golf skills. Play on a golf course and strategy will also be a major part of this course.

### INDV 251 BEGINNING TENNIS.

Units (Grade Option) 1.5 Class Hours 3 lab hours/week Prerequisites: ..... None 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 252 BEGINNING/INTERMEDIATE TENNIS.

Units (Grade Option) 1.5 Class Hours 3 lab hours/week Prerequisites: .... ..... INDV 251 Description: Designed for students with at least one semester of beginning tennis. Basic instruction on forehand and backhand ground strokes, serve, volley, lob and smash. Rules, scoring system, tennis etiquette and basic tactics of singles and doubles included. Drills and match play will be included throughout the semester. Major emphasis on individual improvement.

### INDV 253 INTERMEDIATE TENNIS.

Units (Grade Option) 1.5	5
Class Hours	<
Prerequisites: INDV 251 or 252	
Description: Designed for student with prior tennis experience All strokes and shots presented including forehand and back hand ground strokes, serve, volley, lob, and smash. Intermed- iate instruction in singles and doubles play. Individual improve- ment will be the major emphasis.	-

### INDV 254 INTERMEDIATE/ADVANCED TENNIS.

Units (Grade Option) 1.5 Class Hours 3 lab hours/week Prerequisites: Demonstrated skill Description: Designed for the student with prior tennis experience. All strokes and shots presented, including forehand and backhand ground strokes, serve, volley, lob and smash. Advanced instruction in singles and doubles play. Individual improvement will be the major emphasis.

### INDV 255 ADVANCED TENNIS.

Units (Grade Option) 1.5
Class Hours
Prerequisites:
Description: Class is designed for students with advanced tennis
skills. Students should not have major fundamental weak-
nesses. Instruction will include the use of topspin and
underspin, the attacking game, and adjusting to specific types of
opponents. Individual improvement will be the major emphasis.

### INDV 256 EXPERT TENNIS TRAINING.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# 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 education, or any other health-related field.

# P.E. 116 ASSISTING IN ADAPTIVE PHYSICAL EDUCATION.

### P.E. 200 INTRAMURALS.

Units (Grade Option)
Class Hours 2 lab hours/week
Prerequisites: None
Description: A student may earn one-half to one unit of credit
for specified activities.

# **TEAM SPORTS**

### TEAM 101 BEGINNING BASEBALL.

### TEAM 102 INTERMEDIATE BASEBALL.

Description: Fundamentals of baseball with a strong emphasis on game situations, team play and rules. Skills taught will be more advanced than TEAM 101. Games will be played utilizing a pitching machine. Evaluation will include individual skills and knowledge of game situations.

### TEAM 105 ADVANCED BASEBALL.

Units (Grade Option) 2 Class Hours 6 lab hours/week Frerequisites: TEAM 102 or demonstrated competency. Description: Course is designed for the advanced baseball player with superior skills of play. Fundamentals of baseball related to the advanced player will be offered. Evaluation devices are geared to advanced skill in performance.

### TEAM 111 BEGINNING BASKETBALL.

### TEAM 115 ADVANCED BASKETBALL.

Units (Grade Option) 1–1.5 Class Hours 2 to 3 lab hours/week Prerequisites: TEAM 111 or demonstrated skill. Description: Advanced aspects of team offense and defense will be offered. Emphasis will be placed on team play through the medium of round robin schedules and tournaments. Evaluation will be conducted through written and practical examinations on rules and skills taught.

### TEAM 141 BEGINNING SOCCER.

Units (Grade Option) 1-1.5Class Hours 2 to 3 lab hours/week Prerequisites: None Description: Instruction in basic fundamentals essential for team play. Skills such as dribbling, trapping, passing, heading, shooting, and throw-ins will be combined with conditioning drills preparing one for competition. The laws of the game will be taught for a thorough understanding of team play. Tests of basic skills and game laws will be conducted.

### TEAM 142 INTERMEDIATE SOCCER.

Units (Grade Option) 1-1.5 Class Hours 2 to 3 lab hours/week Prerequisites: TEAM 141 or demonstrated skill. Description: Instruction in intermediate aspects of team play together with an extension of basic skills and knowledge for playing soccer. Considerable opportunity for competitive team play and conditioning. Tests of skills and knowledge are more advanced than in TEAM 141.

### TEAM 143 ADVANCED SOCCER.

Units (Grade Option) 1-1.5Class Hours 2 to 3 lab hours/week Prerequisites: TEAM 142 or demonstrated skill. Description: Competitive team play will be stressed with advanced strategies employed. Tactics will be emphasized that require advanced skills and conditioning. Tests will be conducted to measure the degrees of proficiency.

### TEAM 151 BEGINNING SOFTBALL.

Units (Grade	Option)	 	 	 	 	 										2.5	
Class Hours		 	 	 	 	 -	+ 1		4.	.5	lal	0	ho	urs	s/w	reek	
Prerequisites.															N	one	

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.

 TEAM 152 INTERMEDIATE SOFTBALL.

 Units (Grade Option)
 2.5

 Class Hours
 4.5 lab hours/week

 Prerequisites:
 TEAM 151 or demonstrated skill.

 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) 2.5 Class Hours 4.5 lab hours/week Prerequisites: TEAM 152 or demostrated 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.

### TEAM 170 BEGINNING VOLLEYBALL.

tals of volleyball such as the serve, volley, dig, smash and hit. Proper rotation, rules and effective team play are taught. National volleyball rules of play strictly enforced. An evaluation program in all skills offered will be conducted. Tournament play and a round robin schedule are provided.

### TEAM 171 INTERMEDIATE VOLLEYBALL.

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.

 TEAM 172 ADVANCED VOLLEYBALL.

 Units (Grade Option)
 1-1.5

 Class Hours
 2 or 3 lab hours/week

 Prerequisites:
 TEAM 171 or demonstrated skill.

 Description: Volleyball play for students demonstrating mastery of volleyball skills or who have successfully completed TEAM. 171. Advanced skills of individual and team play are emphasized. Considerable emphasis upon team strategy and techniques. Considerable tournament competition provided.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# INTERCOLLEGIATE SPORTS

### VARS 100 VARSITY BASEBALL.

Units 2 Class Hours 9 lab hours/week Prerequisites: Demonstrated ability. Description: Intercollegiate competition in the Golden Gate Conference and participation in regional tournaments, Northern California playoffs and the State J.C. Championships when qualified.

### VARS 101 BASEBALL CONDITIONING.

Units 1 Class Hours 6 lab hours/week Prerequisites: ... Must be taken concurrently with VARS 100. 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		2
Class Hours	**********	
Prerequisites:		Demonstrated competence.

Description: Intercollegiate varsity basketball competition in the Golden Gate Conference and participation in regional tournaments

### VARS 111 BASKETBALL CONDITIONING.

Class Hours 6 lab hours/week Prerequisites: .... Must be taken concurrently with VARS 110. 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 140 VARSITY GOLF.

Units
Class Hours
Prerequisites: Demonstrated ability.
Description: Intercollegiate competition in the Golden Gate
Conference and participation in dual matches, invitationals and
the conference championships. Team members will also partici-
pate in the Northern California and State Championships as
qualified.

### VARS 141 GOLF CONDITIONING.

Units ...... 1 Class Hours ...... 6 lab hours/week Prerequisites: .... Must be taken concurrently with VARS 140. Description: A conditioning course specifically related to Varsity Golf. Area of emphasis will be strength, flexibility and cardiovascular development as they precisely apply to golf.

### VARS 150 VARSITY SOCCER.

Units
Class Hours
Prerequisites: Demonstrated ability.
Description: Intercollegiate competition with four-year institu-
tions and junior colleges in Northern California. League competi-
tion in the Golden Gate Conference.

### VARS 151 SOCCER CONDITIONING.

Units \_\_\_\_\_1 Class Hours \_\_\_\_\_6 lab hours/week Prerequisites: .... Must be taken concurrently with VARS 150. Description: A conditioning course specifically related to Varsity Soccer. Area of emphasis will be strength, flexibility and cardiovascular development as they precisely apply to soccer.

### VARS 170 VARSITY TENNIS.

Units	
Class Hours	9 lab hours/week
Prerequisites:	Demonstrated ability
Description: Intercollegiate competition	in the Golden Gate
Conference and participation in dual	matches invitations
league meet, Northern California and Sta	ate Championships as
qualified.	are championships as

### VARS 171 TENNIS CONDITIONING.

Units 1 Class Hours 6 lab hours/week Prerequisites: Must be taken concurrently with VARS 170. Description: A conditioning course specifically related to Varsity Tennis. Area of emphasis will be strength, flexibility and cardiovascular development as they precisely apply to tennis.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# PHYSICS

### PHYS 210, 220 GENERAL PHYSICS. (CAN PHYS 2, CAN PHYS 4)

Units 4, 4 Class Hours 3 lecture/2 lab/1 recitation hour/week Prerequisites: 210—elementary algebra and plane geometry, trigonometry is strongly recommended; 220—210.

Description: Lectures with experimental demonstrations covering mechanics, heat and sound in the first semester, and magnetism, electricity, light, and modern developments in the second semester.

### PHYS 250, 260, 270 GENERAL PHYSICS. (CAN PHYS 8, CAN PHYS 12, CAN PHYS 10)

Prerequisites: ...... 250 — MATH 251 and either PHYS 210 or equivalent; 260, 270 — MATH 252 and PHYS 250.

Description: 250 – Mechanics, wave motion and special relativity. 260 – Electricity and magnetism. 270 – Heat, light and modern physics. These courses constitute a three-semester program designed to give the student majoring in engineering, physics, chemistry and certain other majors a thorough foundation in the fundamentals of physics.

### PHYS 405 RADIATION PHYSICS.

Units 3-4 Class Hours 3-4 lecture hours/week Prerequisites: Algebra; high school science. Description: An introduction to the basic ideas about matter, energy, electricity, magnetism and electromagnetic radiation, with emphasis on X-ray phenomena. Applications to the interaction of radiation with matter and X-ray circuits. Required for students pursuing careers as X-ray technologists.

### PHYS 481 GEOMETRIC OPTICS.

Units 3 Class Hours 2 lecture, 3 lab hours/week Prerequisites: MATH 410 Description: The nature of light, rectilinear propagation, reflection, refraction, illumination, and an introduction to the theory of lenses as necessary for the total concept.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# PHYSIOLOGY

### PSIO 256 PRINCIPLES OF PHYSIOLOGY.

 will include both cellular and major body system functioning. This course is not suitable for nursing or physical therapy. These majors should enroll in PSIO 260.

### PSIO 260 HUMAN PHYSIOLOGY.

Units 5 Class Hours 3 lecture, two 3-hour labs/week Prerequisites: 0ne course selected from BIOL 110, 130, ANAT 250, ZOOL 210, knowledge of elementary

chemistry and physics is recommended. (Spring only). Description: Designed to familiarize the student with the functions of the organs and systems of the human body. This course is for students of Nursing, Physiotherapy, Physical Education, Psychology and other related fields.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# POLITICAL SCIENCE

# PLSC 103 CRITICAL THINKING ABOUT WORLD POLITICS.

### PLSC 150 INTRODUCTION TO POLITICAL THEORY.

### PLSC 205 AMERICAN SOCIETY.

Units (Grade	Option)		5
Class Hours			lecture hours/week
Prerequisites:		Limited	to foreign students

or recent immigrants. Description: An orientation to American political institutions, cultural values and social conditions. Topics include economics, national and local politics, education, mass media, family, current social problems. Examples of, and causes of, changes in these different topical areas are studied, and alternative responses and solutions in their native countries to what they find and study in the U.S., looking for similarities and differences. (Fulfills American Institutions requirement and State and Local Government requirement.)

### PLSC 210 AMERICAN POLITICS.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Survey of American politics and government includ

Description: Survey of American politics and government including 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.)

### PLSC 310 CALIFORNIA STATE AND LOCAL GOVERNMENT.

Prerequisites: ..... None Description: Survey of California state and local government with special attention given to the political and social problems of urban and metropolitan communities. Current issues and processes are stressed. (Fulfills State and Local Government requirement.)

A detailed description of the following courses may be found under Announcement of Courses, page 53: 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. (CAN PSY 4)

Prerequisites: None Description: Introduction to psychology, including principles of learning, theories of personality, tests and measurements, behav-ioral disorders, mental health, developmental aspects of individuals, and social psychology. Experimental design and research data.

### PSYC 108 PSYCHOLOGY IN PRACTICE.

Units (Grade Option) 1–3 Class Hours 16–48 lecture hours/semester Prerequisites: None

Description: Intended for those who wish a general picture of human psychology and do not plan to take further courses in psychology. Emphasis on an application of psychological prin-ciples to problems of every-day life rather than a technical/ scientific approach.

### **PSYC 110 MARRIAGE AND RELATIONSHIP CHOICES.** (CAN H EC 12)

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: This course is designed for the student who wishes to examine past, present, and future relationships which involve closeness and intimacy. Lifestyles of singlehood, marriage, divorce, and widowhood will be studied carefully during the semester. Topics include love and romance, sexual values, loneliness, power, jealously, communication and conflict, and stepfamilies. The focus of the course will be on the relationships

involved in marriage, as 95% of the population choose to marry at some point in their lives. However, as the marriage dissolution rate approaches 50%, a strong emphasis of the course is on choices of relationships other than marriage.

### PSYC 201 CHILD DEVELOPMENT. (CAN H EC 14)

Description: An examination of the developmental trends affecting human growth from the prenatal period to adolescence. Emphasis upon the factors influencing physical, emotional, mental, and social development. PSYC 100 is required for transfer.

### **PSYC 202 ADOLESCENT BEHAVIOR.**

Units (Grade	Option)		
Class Hours	*************		3 lecture hours/week
Prerequisites:			None
Description:	Exploration of t	the behaviors, v	alues and complexi-
ties of the ad	olescent 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 221 THE SPECIAL CHILD.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None, PSYC 201 suggested. Description: Survey course emphasizing descriptive and diagnostic differences of exceptional persons (deaf, learning disabled, orthopedically handicapped, visually handicapped, emotionally disturbed, deaf/blind, and the gifted. Current approaches concerning educational and community programs.

### PSYC 278 THE PSYCHOLOGICAL EXPERIENCE OF LA RAZA IN THE UNITED STATES.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: The psychological results of being a Spanish speaking minority within an Anglo society. Emphasis on the psychodynamics of the Spanish speaking family in the United States. (Fulfills Ethnic Studies requirement.)

Focus on self-concept, attitude formation and change, interpersonal attraction, aggression, group dynamics and leadership, impression formation, and related topics. Experiential learning is included as part of this course.

# PSYC 330 SPORTS PSYCHOLOGY.

relating to participation in sports. Examination of mental factors which help produce optimum performance. Coverage of the latest research and practice in applied sports psychology.

### PSYC 340 PSYCHOLOGY OF HUMAN SEXUALITY.

sexuality influencing sexual identity and behavior. Knowledge of relevant sexual research, consideration of sexual malfunction, therapeutic approaches, and the exploration of personal attitudes and values.

# PSYC 370 INTRODUCTION TO COUNSELING.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Introduction to various theories of counseling and general principles on interviewing. Opportunity for the development of skills in establishing rapport, setting counseling goals, recognizing strengths in individuals, recognizing selflimitations, and making referrals and terminating counseling relationships.

### PSYC 391 PARENTING.

PSYC 391 PARENTING. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Survey of the stages of parenting. Guides for positive parenting structures (single parent, step parent, working parent, etc.). Emphasis on adjustment to parenthood and guideline for meeting the needs of children. Recommended elective in the Early Childhood Education Program.

PSYC 300 SOCIAL PSYCHOLOGY. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: PSYC 100 or SOCI 100. Description: Study of interaction among persons and groups.

### PSYC 480 PARAPSYCHOLOGY.

Prerequisites: ..... None Description: Introduction to the study of parapsychology, designed to acquaint the student with the various areas of psychic phenomena. An interdisciplinary approach using the tools of not only psychology but also biology, chemistry, physics, and philosophy to explain rationally and scientifically the hitherto unexplainable. Special emphasis on current trends. The history of psychic phenomena as well as present develop-ments in laboratory and field research.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# RADIOLOGIC TECHNOLOGY

# **RADT 400 ORIENTATION TO RADIOLOGIC**

TECHNOLOGY. Units 2 Class Hours 2 lecture hours/week Prerequisites: Acceptance in the Radiologic Technology Program Technology Program.

Description: Orientation to Radiologic Technology including hospital organization, medical ethics, economics, political and social influences on radiologic technology

### RADT 410 RADIOGRAPHIC POSITIONING.

Units 4 Class Hours 3 lecture/3 lab hours/week Prerequisites: Acceptance in the Radiologic Technology Program.

Description: Positioning of the human body for radiographic purposes. Includes all routine examinations, discussion of pathologic conditions encountered on radiographs. Laboratories offer demonstration and student practice on actual radiographic equipment.

### **RADT 418 CLINICAL EDUCATION I.**

Units (Credit/No Credit) ..... Class Hours: ... 12 hours/week clinical education in affiliated hospitals (total 18 weeks)

Prerequisites: ..... RADT 400 with grade of C or better. Description: Orientation to hospital and patient care. Includes education in radiology department and other hospital systems, practical positioning and care of the patient. Supervised practice in positioning with demonstrations.

### RADT 428 CLINICAL EDUCATION II.

Units (Credit/No Credit) ... Class Hours: ... 30 hours/week clinical education in affiliated enrollment in RADT 420.

Description: Clinical education continues with the addition of practice in use of radiographic technique. One hour film critique each week.

### RADT 430 RADIATION HEALTH AND PROTECTION.

Units ..... Class Hours 3 lecture hours/week Prerequisites: A course in Physics. Description: Radiation effects including somatic and genetic. Radiation detection instruments, evaluation of hazards and methods for reducing exposure to medical radiation. May be of interest to students not enrolled in the Radiologic Technology Program.

### RADT 438 CLINICAL EDUCATION III.

Units (Credit/No Credit) ..... Class Hours: ... 30 hours/week clinical education in affiliated hospitals (total 18 weeks)

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.

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.

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.

Description: Final phase of clinical education. Students will conduct majority of radiographic procedures with limited supervision in preparation for employment. Preparation for American Registry of Radiologic Technologists examination and for licensure by the State of California. One hour film critique each week.

### RADT 495 NURSING FOR RADIOGRAPHERS.

Prerequisites: ...... Concurrent enrollment in the Radiologic Technology Program.

Description: Knowledge, skills and terminology of nursing 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 53: 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.

Prerequisites: ..... ..... None 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.

### R.E. 110 REAL ESTATE PRACTICE.

Units (Grade Option)
Class Hours
Prerequisites: R.E. 100
Description: Comprehensive presentation of real estate broker- age skills in the State of California with emphasis on the daily
activities of salesmen and brokers. (Meets the State require- ments for the broker's examination.)

### R.E. 141 REAL ESTATE APPRAISAL.

Units (Grade Option) ..... 3

Class Hours 3 lecture hours/week Prerequisites: R.E. 100 or R.E. 110. Description: The course takes an overview of the appraisal of residential real estate, with emphasis on the single family residence. It addresses the many principles that motivate buyers 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.

# SECRETARIAL/OFFICE SKILLS WORD PROCESSING

See BUSINESS/OFFICE SKILLS

# SOCIAL SCIENCE

### SOSC 100 SURVEY OF THE SOCIAL SCIENCES.

Units (Grade Option)
Class Hours
Prerequisites: None
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 computeriza-
tion and technology.

### SOSC 120 INTRODUCTION TO SOCIAL GERONTOLOGY.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Introduction to the field of gerontology. Establishes perspectives on aging in our society, and examines the elderly as a population group with emphasis on physical, psychological and sociological aspects of the aging process and the effect on service to the elderly.

### SOSC 122 SOCIAL SCIENCE RESEARCH METHODS.

Units (Grade Option) 3 Class Hours 3 lecture hours plus lab/week Prerequisites: None 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.

### SOSC 250 MEXICAN-AMERICAN CULTURE.

Units (Grade Option) 3
Class Hours
Prerequisites: None
Description: Study of contemporary Mexican-American commu-
nity including its political and cultural heritage, social struc-
tures, problems, movements, and creative contributions. Fulfills
Ethnic Studies requirement.)

### SOSC 392 FAMILY LIFE CYCLE.

Prerequisites: .... ..... None Description: Adult development trends and handling change, stress, and crisis, individual coping abilities will be examined. Topics include: family communication, marriage, parenting, divorce, suicide, violence, alcoholism, drug abuse, aging, and death

### SOSC 801 CURRENT AFFAIRS.

Units (Grade Option) 0.5-2 Class Hours 8 hours per each 0.5 unit Prerequisites: None Description: A study of current domestic and international issues. List of topics varies from semester to semester. Political, social, and cultural events are analyzed to give perspective and understanding to them. This course is not designed for transfer and may not be accepted by four-year institutions. (May be repeated up to a total of 12 units.)

SOSC 802 WORLD FORUM SERIES. Units 0.5–2 Class Hours 8 hours per each 0.5 unit Prerequisites: None Description: Introduces the student to selected topics throughout the world. The culture of selected countries is studied in the framework of race, language, religion, political boundaries, population distribution and growth, along with historical influences, and political/economic problems. This course is not designed for transfer and may not be accepted by four-year institutions. (May be repeated up to a total of 12 units.)

### SOSC 881 CURRENT ISSUES.

Units 1-4 Class Hours By Arrangement Prerequisites: None Description: Selected current issues not covered by regular catalog offerings. Course content and unit credit to be deter-mined by the appropriate division in relation to community/ student need and available staff. These innovative courses may be offered as seminar, lecture, or lecture/lab classes. See semester schedule for particular offerings. Course content and requirements will parallel standards and requirements of other NON-TRANSFER level courses. Courses focusing on single issues pertinent to the discipline. May be repeated for credit.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# SOCIOLOGY

# SOCI 100 INTRODUCTION TO SOCIOLOGY. (CAN SOC 2)

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Course centers on identification and analysis of basic social structures and forces that motivate and direct social behavior. Additional topics include an introduction to the method of sociology, a survey and analysis of America's social institutions; and the impact of political, economic, and social conditions.

### SOCI 105 SOCIAL PROBLEMS. (CAN SOC 4)

Units (Grade	Option)
Class Hours	
Prerequisites:	None
Description:	Examination of selected social issues viewed in
relation to ch	anges going on in society. Includes poverty, aging,

health care, corporate power, and work. Emphasis on social SPAN 122 ADVANCED ELEMENTARY SPANISH II. science research and theory.

### SOCI 141 MINORITIES IN AMERICAN SOCIETY.

..... None Description: Explores the history and contemporary experience of non-white people in the United States. Institutional racism, racial conflict, the role and the influence of regulation on social institutions. (Fulfills Ethnic Studies requirement.)

### SOCI 360 INTRODUCTION TO CRIMINOLOGY.

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 reaction to criminal behavior.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# SPANISH

### SPAN 110 ELEMENTARY SPANISH

Units 5 Class Hours 5 lecture hours/week Prerequisites: None Description: Spanish structures and active vocabulary based on oral and written pattern drills. Conversation based on short readings containing only structures already practiced. Students are urged to make extensive use of the listening facilities in the language laboratory.

### SPAN 111 ELEMENTARY SPANISH I.

students without any background in foreign language study.

### SPAN 112 ELEMENTARY SPANISH II.

equivalent to Spanish 110.)

### SPAN 120 ADVANCED ELEMENTARY SPANISH.

Units 5 Class Hours 5 lecture hours/week Prerequisites: 5 panish 110 or equivalent. Description: Continuation of Spanish 110. Additional reading of ..... 5 Spanish short stories to serve as a basis for classroom conversation. Students are urged to make extensive use of the listening facilities in the language laboratory.

### SPAN 121 ADVANCED ELEMENTARY SPANISH I.

Units 3 Class Hours 3 lecture hours/week Prerequisites: SPAN 110 or SPAN 112. Description: The basic principles of Advanced Elementary Spanish, offered at a less intense pace than Spanish 120. One semester equals approximately half of Spanish 120. May be used for fulfilling transfer language requirements.

Units
Class Hours 3 lecture hours/week
Prerequisites: SPAN 121
Description: Further basic principles of Advanced Elementary
Spanish, offered at a less intense pace than Spanish 120. May be
used for fulfilling transfer language requirements.

### SPAN 130 INTERMEDIATE SPANISH.

Units 5 Class Hours 5 lecture hours/week Prerequisites: 5PAN 120 or equivalent. Description: Practice of conversation and composition: review of grammar; class and collateral reading of Spanish and Spanish literature. Students are urged to make extensive use of the facilities in the language laboratory.

### SPAN 140 ADVANCED INTERMEDIATE SPANISH.

Units 3 Class Hours 3 lecture hours/week Prerequisites: SPAN 130 or equivalent. Description: Further practice of conversation and composition 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.

### SPAN 161 READINGS IN SPANISH LIT. I.

works of Spanish and Spanish-American literature, extensive collateral reading of varied types of Spanish and Spanish-American literature, and review of grammar.

### SPAN 162 READINGS IN SPANISH LIT. II.

American literature, collateral reading of varied types of Spanish and Spanish-American literature, and review of grammar.

### SPAN 196 SPANISH LANGUAGE LABORATORY.

Units (Credit Only)	0.5-1
Class Hours	3 lab hours/week
Prerequisites:	
Description: A program consisting of 25-50	hours of work in
the language laboratory, emphasizing speaking	and understand-
ing Spanish.	Condition of the second

SPAN 801 CONVERSATIONAL SPANISH I. Units (Grade Option) 2 Class Hours 3 lecture hours/week Prerequisites: None Description: A practical course in the Spanish language, ap-proached by way of conversation. Intensive drill in the formulas and idioms of daily speech, 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.) University of California.)

### SPAN 802 CONVERSATIONAL SPANISH II.

Units (Grade	Option)				2
Class Hours				3 lecture ho	ours/week
Prerequisites					SPAN 801
Description:	Further d	rill in th	e patterns	and idiom	s of daily
speech is sup	ported wi	th sufficie	ent gramma	r to give fle	exibility in
the spoken'	language.	(This c	ourse will	not fulfill	language

requirement at California State Colleges or at the University of California.)

### SPAN 803 CONVERSATIONAL SPANISH III.

Units (Grade Option) 2 Class Hours 3 lecture hours/week Prerequisites: SPAN 802 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.

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.)

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# SPEECH COMMUNICATION

SPCH 100 FUNDAMENTALS OF SPEECH COMMUNICATION.

Units 3 Class Hours 3 lecture hours/week 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 130 VOICE AND ARTICULATION.

Units 

Class Hours ...... 3 lecture hours/week Prerequisites: ..... None 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.

Prerequisites: ..... ..... None Description: A comprehensive introduction to the theory and practice of group discussion, this course will include study of leadership, authority, conflict resolution, rules of order, and facilitation of effective decision making within groups.

SPCH 811, 812 SPEECH FOR NON-NATIVE SPEAKERS I, II. Prerequisites: None Description: This course is designed to help the non-native speaker develop greater fluency in spoken English. Course includes practice in pronunciation, word choice, and usage. Students will perform research necessary for the preparation and delivery of extemporaneous speeches.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 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) 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.

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.

### TOUR 103 TRAVEL DESTINATIONS/EUROPE.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: 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.

### TOUR 104 TRAVEL DESTINATIONS/WORLD.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: 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 Subcontinent.

### TOUR 105 TRAVEL DESTINATIONS/ NORTH AMERICA.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: This course covers the cultural and physical aspects of the principal tourist destinations for North America, including all U.S. states and territories, Mexico, and the Caribbean. Course will concentrate on reference materials and principal modes of transportation.

### TOUR 200 INTRODUCTION TO HOSPITALITY AND TOURISM INDUSTRY.

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 ARC FORMS AND PROCEDURES.

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 ARC forms, and other ARC 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 712 INTERNSHIP IN TOURISM.

supervised by Tourism instructor. Student will be placed according to interest, background, and talent. Six hours of preparation and orientation will precede assignment. Two hours of oral and written evaluation by student and teacher will summarize the experience.

### TOUR 715 F.I.T. PLANNING AND COSTING.

Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: TOUR 100, TOUR 710. Description: International itinerary preparation (F.I.T.) worldwide and those reference materials used in planning and costing, including cruises, freighters, ferries, and passenger steamship travel, international rail, plus F.I.T. house procedures and group costings.

### TOUR 720 DOMESTIC AIR/COMPUTER TRAINING.

Description: Designed to teach codes, flight itineraries, connection times, and reference information from the official airline guide; how to use VIASINC - a computer reservation system; how to handle schedule and pricing problems, tariff rules, local fares and routing, ticketing preparation, and pricing check lists.

### 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 circle-trip minimum fares and currency regulations. (This course is an enrichment of the Preliminary IATA Diploma material.) May be repeated once for credit.

### TOUR 731 WHOLESALE TOUR OPERATIONS.

aspects of wholesale tour operation and the office procedures involved. Pricing and planning will be covered with some preliminary looks at marketing.

### TOUR 732 WHOLESALE TOUR OPERATIONS -ADVANCED.

Units (Grade Option) ..... 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.

### TOUR 750 ICTA: TRAVEL AGENCY BUSINESS MANAGEMENT.

Description: This course increases management effectiveness by applying professional office management techniques to travel agencies. Content includes methods for improving the productivity, accuracy, and efficiency of travel agency personnel.

### TOUR 751 ICTA: MANAGING SALES PERSONNEL.

Description: Study of travel agency operations. It emphasizes procedures designed to improve travel services and client satisfaction.

### TOUR 752 ICTA: MARKETING AND SALES MANAGEMENT.

ing theories and techniques to the sales problems of retail travel agencies. Much emphasis is placed on the identification of new markets and suggested methods for reaching these markets.

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# TOUR 753 ICTA: INTERNATIONAL TRAVEL AND TOURISM.

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### **TOUR 881 CURRENT ISSUES**

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

# WORD PROCESSING

See BUSINESS/OFFICE SKILLS

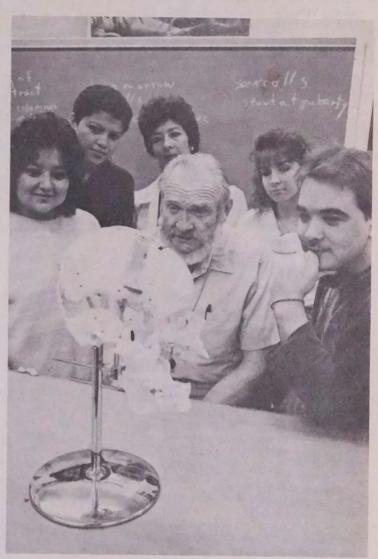
# ZOOLOGY

### ZOOL 210 GENERAL ZOOLOGY.

Prerequisites: . High school Biology with grade B or better, or BIOL 110 or 130 with grade of C or better. Description: Study of invertebrate and vertebrate animals, their

organs and functions, adaptations, evolution and natural history.

A detailed description of the following courses may be found under Announcement of Courses, page 53: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.



# 106 OTHER EDUCATIONAL OPPORTUNITIES AT SAN MATEO COUNTY COMMUNITY COLLEGES

Cañada College is part of the San Mateo County 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 Administration of Justice Apprenticeship Electrical Fire-Medic Lithographer Plumber Sheet Metal Sprinkler Fitter Architecture Banking & Finance **Broadcasting Arts Building Inspection** Consumer Arts & Science Cosmetology Dental Assisting Drafting Technology **Electronics Technology** Fashion Merchandising Filmmaking Floristry Fire Science Horticulture Humanities 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 Track & Field

COLLEGE OF SAN MATEO 1700 West Hillsdale Blvd. San Mateo, CA 94402 (415) 574-6161M

# 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 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 1989-1990

(Date of appointment to San Mateo County Community College District follows name.)

Aarons, Bernard L. (1960) Professor Geology, Oceanography, Paleontology B.S., Pennsylvania State College M.S., University of California, Berkeley

Aguirre, Alicia (1988) Asst. Professor English Institute B.A., Marygrove College M.A., Eastern Michigan University

Anderson, Richard W. (1970) Professor Physical Education, Computer Science B.A., San Jose State University M.A., Stanford University

Andrew, Alan R. (1968) Professor Physics B.S., University of Nebraska M.S., Ph.D., California Institute of Technology

Ashley, Lyman C. (1968) Professor Physical Education B.S., M.A., California State Polytechnic College

Batch, Robert W. (1965) Professor Chemistry B.S., Tufts University M.S., Northeastern University

Bazak, Katherine (1988) Asst. Professor Art B.F.A., Virginia Commonwealth University M.A., University of Wisconsin

Berdon, Jean D. (1969) Professor Mathematics B.S., Tufts University M.S., University of Connecticut

Blanton, Donald J. (1964) Professor Biology, Botany B.A., Aquinas College M.S., University of Michigan

Branstrom, Marvin J. (1970)
Professor
Anatomy, Physiology
B.A., M.A., San Jose State University
Ph.D., Pacific Graduate School of Psychology Bratton, Glory (1982) Assoc. Professor Learning Disabilities B.A., San Francisco State University M.A., University of Santa Clara M.S., San Francisco State University

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) Professor Business A.A., College of San Mateo B.A., San Francisco State University M.B.A., University of Santa Clara

Cory, Genevieve H. (1968) Professor Interior Design B.S., University of Nevada M.A., Ph.D., University of California, Berkeley

Cribb, Gary (1989) Coordinator, EOPS B.A., M.A. San Jose State University

Crockett, R. Kent (1965) Professor Speech, English B.A., M.A., San Jose State University

Cunningham, Lois (1971) Professor Social Science, Sociology B.A., Briar Cliff College M.A., St. Louis University

Curtis, Robert M. (1967) Professor Drama, English B.A., M.A., San Francisco State University

Del Gaudio, Joan B. (1965) Director, Counseling/Advising & Matriculation B.S., Cen. Connecticut State College M.Ed., Boston University

Drever, Jerard D. (1968) Professor Physical Education A.A., College of San Mateo A.B., San Jose State University M.A., San Francisco State University

# FACULTY 107

Eakin, J. David (1968) Professor Spanish, French A.B., M.A., University of Oregon

Earnhardt, Eldon D. (1969) Professor Anthropology — Archeology B.A., M.A., San Francisco State University

Easter, Stanley E. (1969) Professor 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 F. (1971) Professor Art B.A., Indiana University B.F.A., Kansas City Art Institute M.F.A., Pennsylvania State University

Erickson, Denise (1977) Asst. Professor Art History B.A., M.A., University of California, Santa Barbara

Eyer, Dianne M. (1970) Professor 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) Professor Physical Education B.S., Michigan State University M.S., Southern Illinois University

Friesen, John B, Jr. (1963) Professor Humanities Division Director A.B., M.A., University of California, Berkeley

Gavazza, Steven D. (1981) Professor Computer Science, Mathematics, Engineering B.S., Stanford University M.A., Univ. of California, Berkeley Ph.D., Stanford University

George, Rosemary (1974) Library B.A., San Francisco State University M.L.S., San Jose State University

### FACULTY 1989-1990

# 108

Giuntoli, Mervin A. (1966) Professor Biology, Zoology B.A., M.A., San Jose State University

Glessing, Robert J. (1968) Professor Journalism, English B.A., Marquette University M.A., 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) Professor Philosophy, Counselor 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) Professor 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) Professor Geography, Tourism B.S., Michigan State University M.A., Wayne State University

Heringer, H. Grace (1969) Professor Business & Social Science Division Director B.A., South Carolina State College M.A., San Jose State University Ed.D., Nova University

Harrington, Joyce M. (1969) Student Health Services – College Nurse R.N., Providence School of Nursing B.S.N.E., Seattle University M.S., University of California, San Francisco

Harris, Donald C. (1969) Professor English, Spanish B.A., Howard University M.A., San Francisco State University Hayes, Linda (1988) Asst. Professor Microcomputer Applications B.A., University of San Francisco M.A., San Francisco State University

Henry, Amy (1968) Professor English B.A., 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) Professor Program Specialist for the Handicapped B.A., University of California, Los Angeles M.A., University of Santa Clara

Hoffman, Craig R. (1965) Professor English B.A., University of California, Berkeley M.A., San Francisco State

University

Hurley, Gale E. (1968) Professor Business A.B., San Jose State University M.A., San Francisco State University

Ienni, Philip C. (1969) Professor Music B.S., M.S., Juillard School of Music

Jeppson, Joseph (1963) Professor History, Law B.S., LL.B., J.D., University of Utah A.M., Stanford University Ph.D., University of California, Berkeley

Katz, Marlene (1964) Professor Business B.S., M.S., Western Illinois University Ph.D., Golden Gate University

Kenney, William C. (1968) Professor English, Film A.A., College of San Mateo A.B., Stanford University M.A., San Jose State University Keys, Elijah James (1969) Professor Speech, English, Counselor B.S., University of Minnesota M.A., San Francisco State University

Kirwin, Albert (1975) Assoc. Professor Office Related Skills

Le Bow, Diane (1968) Professor English A.B., Douglas College (Rutgers) M.A., University of California, Berkeley Ph.D., University of California, Santa Cruz

Lewis, Eileen L. (1974) Professor Chemistry, Physics B.S., M.S., Texas A & M University

Loughry, Alice P. (1970) Professor Business B.S., University of Maryland M.S., New York State College, Cornell University

MacDonald, James R. (1984) Asst. Professor Electronics B.S., University of California, Davis

Marchi, Joseph J. (1968) Professor Counseling B.A., San Francisco State University M.A., Columbia University Teachers College

Martinez, Olivia G. (1989) Vice President B.A., San Francisco State University M.S.W., University of California, Berkeley Ed.D., University of San Francisco

McCarthy, Barbara (1981) Assoc. Professor Adaptive Physical Education B.A., M.A., San Francisco State University

McGill, Sally J. (1971) Professor Nutrition, Foods & Dietetics B.S., University of Oklahoma M.P.H., University of California, Berkeley

McNamara, Cheryl J. (1968) Professor Physical Education B.A., San Jose State University M.A., San Francisco State University Meek, Austen B., Jr. (1968) Professor Mathematics B.A., San Jose State University M.A., Bowdoin College

Mendoza, Salvador (1984) Assoc. Professor Counseling, Coordinator, English Institute B.A., San Diego State University M.A., Boston University M.A., Middlebury College

Messner, Gerald M. (1964) Professor English A.B., Stanford University M.A., California State University, Los Angeles

Miller, Lewis D. (1971) Professor 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) Professor Radiologic Technology B.A., M.S., San Francisco State University

Nicholls, Anne L. (1988) Asst. Professor Coordinator, Ophthalmics A.A., Skyline College B.A., University of California, Davis A.S., Cañada College

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Nicolopulos, Samuel J. (1968) Professor Physical Education A.A., College of San Mateo B.A., San Jose State University A.M., Stanford University

Norman, Timothy H. (1968) Professor Mathematics B.A., Illinois Benedictine College M.S., University of Notre Dame

Owyang, Walter M. (1970) Professor Psychology A.B., University of California, Berkeley M.A., San Jose State University Ph.D., University of Nebraska

Padron, Virginia (1977) Assoc. Professor Counselor, English Institute B.A., M.A., San Jose State University Plunkett, Charles R. (1965) Professor English A.A., College of San Mateo A.B., Stanford University M.A., San Francisco State University

Preston, Jack (1984) Assoc. Professor Computer Science, Mathematics B.A., Clark University M.A., San Francisco State University

Reller, Theodore L., Jr. (1968) Professor Political Science A.B., M.A., University of California, Berkeley

Rodriguez, Ernesto (1970) Professor College Psychologist A.B., M.A., San Francisco State University Ph.D., Wright Institute

Rubler, Selma (1964) Student Health Services – College Nurse R.N., Beth Israel Hospital B.S., M.S., University of California, San Francisco

Sandler, Marie H. (1974) Professor E.C.E./Psychology B.S., M.S., Florida State University

Sanfilippo, Rudy A. (1976) Professor Sociology, Management B.A., M.A., San Jose State University

Schey, Robert E. (1970) Coordinator of Cooperative Education B.A., M.A., San Francisco State University

Schoenky, Mary A. (1963) Professor Counseling, Career Classes R.N., College of St. Scholastica B.S., University of Minnesota M.N., University of Washington

Sitton, Carl V. (1968) Professor Music B.M., Texas Wesleyan College M.A., Mills College

Smith-Stein, Pamela D. (1969) Professor English A.B., M.A., University of California, Berkeley Sorensen, Lenora H. (1975) Professor Tourism B.A., Texas A & I M.A., George Washington University

Stegner, Paul F. (1969)
Professor
Psychology, Computer Science
B.S., Pennsylvania State
University
M.A., California State
University, Fresno
Ph.D., Washington State
University

Steidel, James N. (1971) Professor History, Ethnic Studies B.A., Kenrick College M.A., Ph.D., University of Southern California

Stiff, Robert (1961) President A.B., M.A., San Francisco State University

Stoney, James M. (1959) Professor Microbiology, Biology B.A., M.A., San Francisco State University

Sutherland, Kenton (1970) Professor English, English Institute A.A., Compton College B.A., University of the Americas M.A., University of California, Los Angeles

Swenson, Jack S. (1964) Professor English B.A., University of Minnesota M.A., San Francisco State University

Szabo, Rosalee (1969) Professor English B.S., Cornell University M.A., University of Rochester

Thein, Van Raymond (1970) Professor Music B.A., M.A., San Francisco State University

Tovissi, Joseph A. (1965) Professor Mathematics, Counselor B.S., Kent State University A.M., Stanford University M.S., Purdue University

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### FACULTY 1989-1990

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Trugman, Ronald F. (1973)
Professor
Business/Computer
Applications
B.A., Long Beach State University
M.S., M.S.Ed., Ph.D., University of Southern California

Vial, Silvano A. (1964) Professor Physical Education B.S., University of Idaho A.M., Stanford University

Villarreal, Gilberto S. (1968) Professor Spanish, English Institute B.A., San Jose State University M.A., Stanford University Ph.D., University of Colorado

Weidman, Jane C. (1975) Professor English A.B., University of Oregon M.S., California State University, Hayward

Welles, Samuel Paul, Jr. (1970) Professor Biology B.S., M.S., Ph.D., University of California, Berkeley

Westover, Ross W. (1962) Professor Physical Sciences B.S., Brigham Young University M.S., Syracuse University

Workman, Gilbert B. (1968) Professor History B.A., Yale University M.A., San Jose State University

Young, Frank C. C. (1969) Professor Philosophy B.A., University of Florida M.A., San Francisco State University

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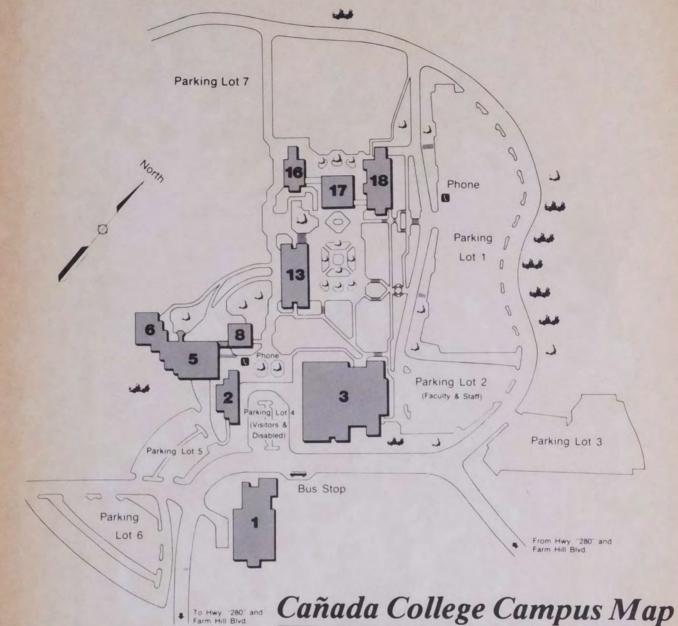
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# **Cañada** College

4200 Farm Hill Boulevard Redwood City, California 94061 (415) 364-1212 (day) (415) 364-1213 (evening)



### **Building** - Room

Administration 8
Admissions & Records 8 - Lower Level
Associated Students Cafeteria
Basic & Applied Science Division Office
Bookstore 2
Business/Social Sciences/
Training Division
Business Skills Lab
Cafeteria 5
Career Center 5 - 215
Community Relations 8 - 204
Computer Center 5 - 105
Cooperative Education 5 - 208

### Building - Room

Building - Room
Counseling Office 5 - 214
Disabled Students Center 3 - 103
EXCEL 6- 12
Financial Aid 5 - 207
Flexible Theatre 3 - 129
Gym 1
Health Center 5 - 213
Humanities Division Office 3 - 205
Information Center 8 - Lower Level
Job PlacementCafeteria
Library 6
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### **Building - Room**

Management & Training
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Physical Education 1
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Veterans Office
Writing Lab

