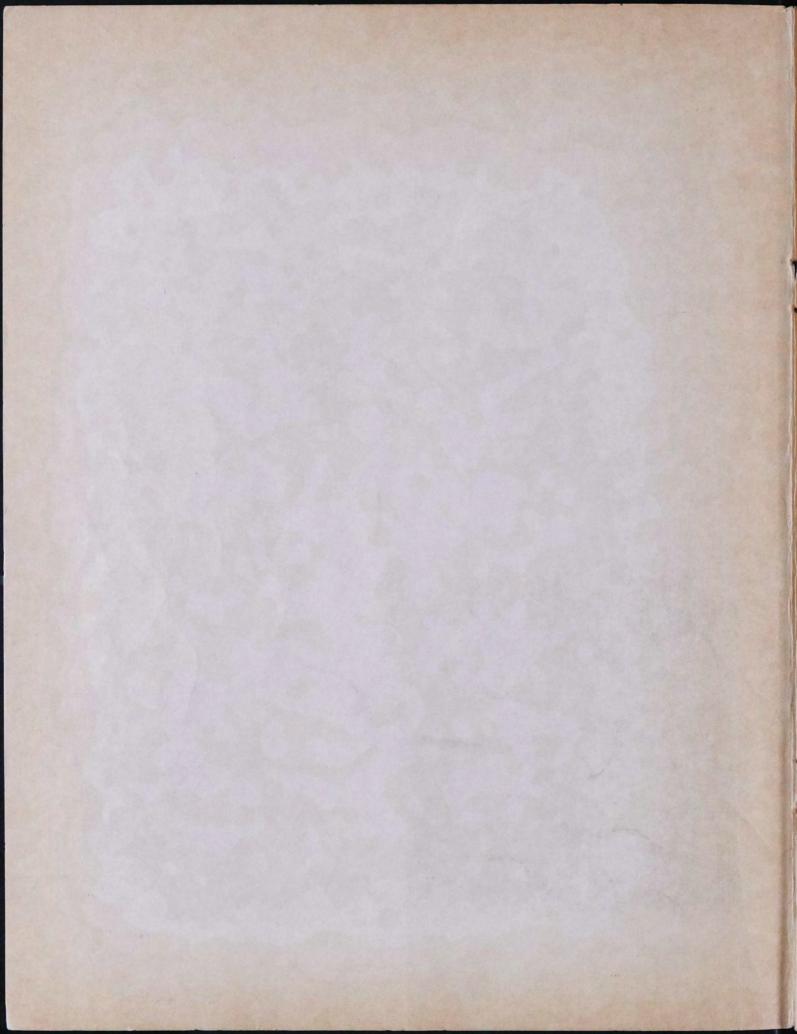


CAPALDA COLUMBIA CATALOGUE

1985~1986



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.

Tom Huening, President

William E. Jordan, M.D., Clerk

Eleanore D. Nettle

James G. Rudolph, Ph.D.

James R. Tormey, Jr.

Glenn P. Smith, District Chancellor-Superintendent

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

CAÑADA COLLEGE

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



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

Cover design Susan Koop

SUMMER INTERSESSION, 1985

- June 24 Summer Intersession begins
- July 4 Holiday Independence Day
- Aug. 2 Six-week Summer Intersession ends
- Aug. 16 Eight-week Summer Intersession ends
- Aug. 30 Ten-week Summer Intersession ends

FALL SEMESTER, 1985

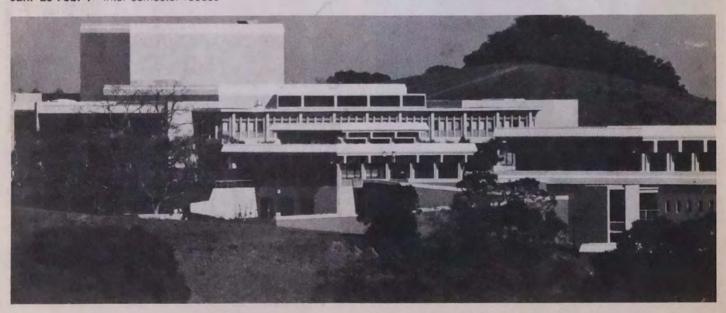
- Sept. 2 Holiday-Labor Day
- Sept. 4 Classes begin
- Sept. 17 Last day to add classes
- Sept. 17 Last day to drop classes with eligibility for enrollment fee refund
- Sept. 18 Last day to drop classes without paying drop fee
- Sept. 23 First Census Day
- Sept. 27 Last day to drop classes without appearing on student's record
- Oct. 25 Mid-Term grade reports due
- Nov. 11 Holiday Veterans' Day
- Nov. 12 Second Census Day
- Nov. 28 Holiday Thanksgiving
- Nov. 29-30 Declared recess
- Dec. 6 Last day to drop semester-length classes without possible penalty grade
- Dec. 16-Jan. 1 Winter recess
- Jan. 16-24 Final examinations (Day classes)
- Jan. 20 Holiday Martin Luther King
- Jan. 24 Classes close
- Jan. 25-Feb. 1 Inter-semester recess

SPRING SEMESTER, 1986

- Feb. 3 Classes begin
- Feb. 14 Holiday Abraham Lincoln
- Feb. 15 Declared recess
- Feb. 17 Holiday George Washington
- Feb. 18 Last day to add classes
- Feb. 18 Last day to drop classes with eligibility for enrollment fee refund
- Feb. 19 Last day to drop classes without paying drop fee
- Feb. 24 First Census Day
- Feb. 28 Last day to drop classes without appearing on student's record
- Mar. 24-29 Spring Recess
- Apr. 4 Mid-term grade reports due
- Apr. 21 Second Census Day
- May 16 Last day to drop semester-length classes without possible penalty grade
- May 26 Holiday Memorial Day
- June 10-17 Final examinations (Day classes)
- June 17 Classes close

SUMMER INTERSESSION, 1986

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



D. Robert Stiff Executive Dean

John H. Greenalch Administrative Dean

John H. Rhoads Director, Administrative Services

INSTRUCTIONAL SERVICES

Clayton Bowling
Director, Basic & Applied Sciences

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

John B Friesen, Jr. Director, Humanities

Loretta J. Hergert Director, Instructional Resources

STUDENT SERVICES

Ella Turner Gray
Director, Special Programs & Services

Jesse Guerrero Registrar

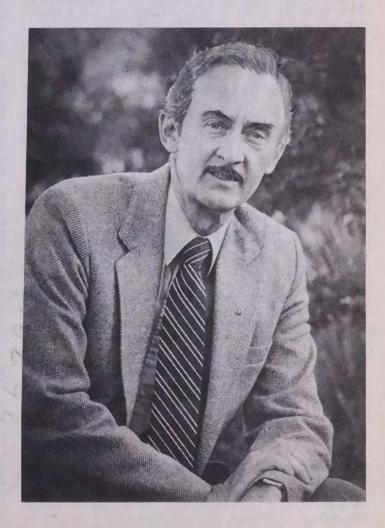
FROM THE EXECUTIVE DEAN

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

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

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

Robert Stiff Executive Dean



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 instruc-

tional systems and learning environments.

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

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

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

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

MISSION AND GOALS SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT MASTER PLAN

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 commu-

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

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
- 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 appro-

ROLE OF THE FACULTY AND STUDENTS

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

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

ACCREDITATION

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

REVISION OF REGULATIONS

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

BOOKSTORE

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

BUSINESS OFFICE

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

CAFETERIA

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

COMPUTER CENTER

The Cañada Computer Center, located in the Administration Building, directly below the cafeteria, is open for use by students, faculty and staff daily (Monday through Saturday), and evenings (Monday through Thursday), as well as certain hours on Sunday.

The on-campus computer is a DEC PDP-11/44 multi-station, time-sharing computer that was donated to Cañada College by Digital Equipment Corporation. This computer allows a number of users to edit and/or run programs simultaneously. The Computer Center also houses eight independent Apple II + and IIe microcomputer work stations. These computers are used by Apple classes as well as by students and faculty working with CAI

in many classes.

Students may use programs written for their classes, or they may write programs of their own, in a variety of languages. For example, the PDP-11/44 supports Assembly Language, BASIC, FORTRAN, COBOL, and Pascal, the Apple Microcomputers support Assembly Language, BASIC, COBOL, FORTRAN, and LOGO with TURTLEGRAPHICS. Word processing and text editing, a simplified form of word processing, are also available on both the PDP-11/44 and Apple computers. Student assistants are available at all times that the Center is open, to help users interact with the computer and to answer limited programming questions.

In addition, students may use the PDP-11/14 computer, with word processing or text editing, to write and edit their reports and/or essays for any class at the College, by signing up for COMP 699ZZ. Students who wish to obtain an account on the PDP-11/44 or use the Apple computers to further their computer learning outside of a regularly scheduled class may also sign up for COMP 699ZZ. A number of IBM-PC microcomputers are also available in the Computer Center. These microcomputers are used as a laboratory facility for students who are taking regularly

scheduled courses on the IBM-PC microcomputers.

ENGINEERING CENTER

The engineering center at Cañada College provides advanced facilities for the 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 Apple microcomputers are available to allow students to explore the use of computers in many of their engineering classes. Furthermore, there is work space for construction of models and test equipment for various engineering classes.

MANAGEMENT & TRAINING INSTITUTE

The Management & Training Institute at Cañada College has demonstrated success in meeting the demand from local business and industry for employee training. Cañada satisfies the requirement to upgrade employees' skills, which results in increased job satisfaction and productivity and lower turnover rates. Designed to meet the specific needs of the requesting

organization, these fee-based programs may be credit or non-credit, of varying duration, and held on an employer's site or on campus. Classes cover a full spectrum of subject matter including computer languages, microcomputer applications, computerized accounting, and word processing. In addition to custom-designed training classes, the Institute conducts open enrollment weekend workshops on such topics as IBM-PC applications, tourism, and interior design.

The Management & Training Institute has a director and staff who coordinate class content design, assignment of instructors, registration requirements, and confirmation of participant comple-

tion.

For further information, call (415) 364-8229.

LIBRARY

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

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

and by making them easily accessible.

There are three main service areas. The Circulation/Reserve book area contains restricted loan material as well as college catalogs. The Reference and Periodical area serves the research needs of students. Shelved there are periodical and newspaper holdings and the indexes, the microfilm collection, as well as a large variety of reference source material. The card catalog provides access to a general collection of some 50,000 volumes arranged on open shelves in the Reading Room. Table and carrel seating for students is provided in this room, which affords a panoramic view of the wooded slopes of Skyline Ridge and is an inviting place for quiet study.

Students who wish to make effective use of library resources and services should investigate the basic skills course listed in

this catalog under Library Science.

MEDIA LEARNING CENTER

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

OFFICE OF BUSINESS OPERATIONS

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

STUDENT SERVICES

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

- Admissions and Records
- Counseling and Guidance
- Special Services

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

PARKING

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

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

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

TUTORIAL SERVICES

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

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

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

CONTINUING EDUCATION HOURS FOR HEALTH PROFESSIONALS

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





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, emergency loans, and work-study programs which may be awarded to qualified students. We assist and encourage students to apply for California State Scholarships, College Opportunity Grants, Vocational Training Grants, and all other state and local awards.

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

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

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



SCHOLARSHIPS

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

Cañada College provides a scholarship program to recognize and honor outstanding achievement and to provide financial assistance to students in furthering their academic pursuits. A limited number of scholarships, ranging from \$100 to \$500, are available to Cañada students. All applicants for scholarships will be considered for the general scholarship program. These awards are based on stated criteria of the donor(s), which include demonstrated academic achievement and promise and financial need, and are given individually or through Cañada's Scholarship Committee. This Committee meets each Spring to review applications and select recipients for the following school year. Scholarships generally available are: Alumax Inc., Atkinson Foundation, Carl Ward, Mabel Leon, Ethel Lindauer, William Goss, Ben Leese, Redwood City Citizens Against Racism, Rotary International Foundation, San Mateo County Association of Educational Office Employees, San Mateo County Retired Teachers Association, American Association of Businesswomen, Sequoia Hospital, Mills Memorial Hospital Auxiliary, Peninsula Hospital Auxiliary, Radiologic Technology, Associated Students of Cañada College, and various others.

Requests for applications and information should be directed to the Health Center, Bldg. 5, Room 213. The application dead-line is during the first week of April.

16 STUDENT OBLIGATIONS

CONDUCT

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

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

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

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

SECRET ORGANIZATIONS

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

FINES

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 educationally-related problems.

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

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

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

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 (bus passes), books and supplies, tutoring, counseling, meal allowances and other related services.

Eligible Applicants:

- · Single, head of household
- · A.F.D.C. recipient (for a minimum of one consecutive year)
- At least 18 years old
- Must pursue vocational training

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

DISABLED STUDENT PROGRAM

The Disabled Student Program offers a wide range of services to students with varying disabilities, including physical and learning disabilities. The program encourages the active participation of disabled students by serving as an information center, counseling source and academic referral. Any student with severe mobility or health impairment is encouraged to seek the services of the Disabled Student Program. Through supportive services, an individual can meet his/her academic, social and personal goals while attending Cañada College. Many new programs and equipment are being developed to meet the needs of disabled students; 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.

Also, for those students interested in pursuing a career in special education or an allied health profession, "Introduction to Adaptive Physical Education" offers an introduction to the nature of various disabling conditions, as well as providing related experience via assisting with the on-campus Adaptive PE. classes. 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. Work-study, job skills and career development will be ancillarly services to the L.D. population, and special equipment and materials will be available to students. Adults with possible learning disabilities or diagnosed learning disabilities should contact the Learning Disabilities Program at 364-1212 Ext. 237, Glory Bratton.

Supportive Services:

- Individualized counseling, vocational referral and information
- Elevator keys and parking permits
- Coordination of services with high schools, agencies and the California Department of Rehabilitation
- Readers and Note-Takers
- Audio-visual equipment available tape recorders, tapes and Lexicon, adapted voice-actuated computer equipment for those students interested in the Computer Information Program
- Special equipment available for the visually impaired student; Braille slates, paper and canes
- · Interpreters for the deaf and hard of hearing

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

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

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

EXCEL PROGRAM

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

EXCEL offers supportive services for students' academic needs.

- Helps students to apply for financial assistance.
- Provides tutors to facilitate the successful completion of course work.
- Offers vocational and career counseling, as well as personal counseling, that helps maximize students' self-realization and achievements and minimize students' problems.

Support services available to EXCEL students:

- College admission
- Registration information
- Financial aid
- College adjustment
- Peer counseling offers you a relationship with another student who has made it at college and can help you build academic survival and deal with the rigors of academic life.
- Supervised study where a peer tutor is available to assist you with problems that arise while studying.
- Academic survival how to get in a class and how to stay there successfully.
- Guidance courses in college awareness, career planning and personal adjustment.
- Peer counselor training given to help prepare and develop skilled, sensitive peer counselors to fill positions in the EXCEL center.
- Other college related personal problems

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

- · A desire to learn.
- Willingness to work hard.
- A commitment to being at Cañada.
- A desire to share ideas, feelings, and special talents with others.

You qualify if:

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

8:00 a.m. — 4:30 p.m. Monday — Friday, Bldg. 6, Room 13 For further information regarding EXCEL, call Don Harris at 364-1212, Ext. 300.

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

EOPS provides:

- Financial assistance in the form of grants
- Books
- Meal ticket program
- Transportation
- Tutoring

- Counseling
- Guidance Classes
- Basic Skills Classes
- Outreach
- Peer Counselors

You qualify if:

- You are a high school graduate or are age 18 at the time of admission.
- Your income is low.

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

HOUSING

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

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

LOST AND FOUND

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

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

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

STUDENT ACTIVITIES AND ORGANIZATIONS

To gain the most from College life, students are encouraged to participate in the activities program and College clubs, which offer diversified opportunities for making both social and educational contacts. Because financial support for these programs comes from the sale of activity cards, students are urged to purchase student activity cards.

The Office of Special Programs and Services maintains a list of active clubs and organizations.

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

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

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

Come to the Office of Special Programs and Services if you are interested in becoming a senator or participating in student government, Bldg. 8, Room 211.

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

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

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

team competition.

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

The following basic principles pertain to all matters of eligibility:

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

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

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

with neighboring community colleges and universities.

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

Foreign Travel and Study: A file of current overseas programs for study and travel is kept in the Career Center in Building 5. Check with the Coordinator of Counseling in Building 5, room 214, for further information.

20 COUNSELING AND SUPPORT SERVICES

This service strives to find the right match between the student's qualifications and the employer's needs. The main focus is to provide employment opportunities for Cañada students so that their financial obligations will not infringe on their academic performance.

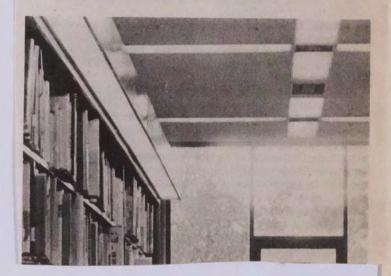
The Student Employment and Placement Services office is open Monday through Friday from 10 a.m. to 6 p.m. under the

coordination of Robin Baneth.

HEALTH CENTER

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

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



INFORMACION SOBRE ADMISIONES

La Oficina de Admisión es parte de la División de Servicios Estudiantiles de Cañada y tiene como meta, facilitar a todos los alumnos el proceso de admisión e inscripción, como también el de velar por sus intereses. Para cumplir con sus propósitos, la Oficina de Admisión tendrá bajo su responsibilidad la administración de las siguientes áreas de servicio:

- Determinar la elegibilidad para la admisión
- Proveer inscripciones para los programas de las clases
- · Procesar cambios en la hoja de servicios
- Procesar certificados de estudio
- Procesar notas
- Dirigir investigaciones institucionales
- Certificar la elegibilidad para los títulos de A.A. (estudios preuniversitarios de letras) y A.S. (estudios preuniversitarios de ciencias) y para los certificados de programas de estudio.
 Esta oficina también tiene la responsabilidad administrativa

sobre los siguientes servicios:

- Programa para los veteranos
- Programa de estudiantes extranjeros

ELEGIBILIDAD PARA LA ADMISION

Los requisitos de admisión deberán completarse antes de que el alumno se matricule.

REQUISITOS DE ELEGIBILIDAD PARA LA ADMISION DE ESTUDIANTES

Todo residente de California que solicite admisión al Colegio de Cañada deberá satisfacer uno de los siguientes requisitos:

- ser graduado de la escuela secundaria
- ser estudiante no egresado aún de la escuela secundaria con 16 o 17 años de edad, que sea aprobado en el Exámen para el Certificado de Aptitud (Certificate of Proficiency Examination), o que haya completado el Exámen de Educación General Básica (G.E.D.) con un resultado mínimo de 50 puntos en cualquiera de los exámenes, y un promedio de 55 puntos o más en todos los exámenes.
- tener 18 años de edad o más, y, en la opinión del presidentede Cañada, estar capacitado para aprovechar la instrucción aquí ofrecida.
- estar en el 9º, 10º, 11º, o 12º año escolar y ser un alumno/a al cual la admisión como estudiante por horas ha sido recomendada por su director/a y por el presidente de Cañada.

ESTUDIANTES DE OTRO ESTADO

Los residentes de otro estado podrán calificar para su admisión a Cañada si satisfacen los siguientes requisitos:

- que sean graduados de escuela secundaria
- que tengan 18 años de edad o más, y, en la opinión del presidente de Cañada, sean capaces de beneficiarse de la instrucción ofrecida.

- que posean un record académico o promedios de exámenes los cuales indiquen un potencial de éxito en el programa de estudio del colegio.
- que sean estudiantes aún no egresados de la escuela secundaria, con 16 o 17 años de edad, y que tengan aprobado el Exámen para el Certificado de Aptitud (Certificate of Proficiency Examination), o que hayan completado el Certificado de G.E.D. (Educación General Básica) con un resultado mínimo de 50 puntos en cualquiera de los exámenes, y un promedio de 55 puntos o más en todos los exámenes.

ESTUDIANTES POR HORA

Los estudiantes que toman menos de 12 unidades deben entregar solicitudes durante las fechas de inscripción, pero no es necesario que presenten certificados de estudios. Sin embargo, se les aconseja a los estudiantes que trabajan por hora y que están tomando cursos dirigidos a la preparación de una carrera, o que están tomando cursos transferibles a la universidad, que mantengan sus certificados archivados con el objeto de facilitar el asesoramiento.

ESTUDIANTES ESTRANJEROS

El Colegio de Cañada cuenta con un programa extenso para estudiantes de otros países. El colegio ofrece los servicios de un consejero cuya preparación y experiencia está orientada hacía los problemas particulares del alumno extranjero, ya sean personales o académicos. Los solicitantes de otros países fuera de los Estados Unidos deben:

- Haber completado, con notas satisfactorias, el equivalente a la educación impartida en las escuelas secundarias de este país
- Demostrar el suficiente dominio del idioma inglés para poder aprovechar la instrucción impartida aquí.
- Presentar evidencia de poseer los fondos necesarios par pagar los derechos de matrícula y todos los gastos de vivienda que encuentren mientras asisten al Colegio de Cañada. El costo para los estudiantes extranjeros es de \$82.00 por unidad.
- Presentar evidencia de que el alumno/a cuenta con un seguro médico y de hospitalización, o de no ser así, inscribirse en el plan médico que ofrece el Distrito de Colegios Comunitarios del Condado de San Mateo.

Las personas que no sean residentess de los Estados Unidos o que se encuentren de visita y que no tengan visa estudiantil podrán inscibirse en el colegio pagando una cuota de \$82.00 por unidad.

El estudiante deberá presentar el pasaporte que muestre la evidencia de que su visa tiene en orden las fechas necesarias para cubrir el semestre en el que piensa estudiar.

REQUISITOS DE RESIDENCIA PARA LA ADMISION

La asistencia a cualquier colegio público en California está condicionada por ciertos requisitos de residencia. Un residente de California con deseos de asistir a un colegio comunitario deberá contar con 18 años de edad o más, y residir en el estado por más de un año antes de ingresar al primer día de clases.

Los postulantes al Colegio de Cañada que sean residentes del Distrito Escolar de los Colegios Comunitarios de San Mateo podrán asistir al Colegio de Cañada (Redwood City), Colegio de San Mateo (San Mateo), o al Colegio Skyline (San Bruno). Los postulantes que sean residentes de una sección de California que no esté incluida en un distrito que imparta clases de colegios comunitarios también podrán asistir al Colegio de Cañada. Los postulantes en calidad de inmigrantes deberán residir en el estado de California más de un año después de la fecha de ingreso al país, como esté indicado en sus visas correspondientes.

PROCEDIMIENTOS PARA LA ADMISION DE POSTULANTES—CLASES NOCTURNAS

Los estudiantes que postulan al colegio de Cañada y que deseen inscribirse solamente en las clases nocturnas deberán:

 entregar una solicitud de admisión con los formularios proporcionados por el colegio durante las fechas específicas que indiquen inscripción para las clases nocturnas.

- Aquellos alumnos que deseen inscribirse en 12 o más unidades durante cualquier semestre, necesitarán enviar al Colegio de Cañada dos certificados completos de los estudios realizados en años anteriores. Si han transcurrido más de cinco años desde que el alumno/a egresó de la escuela secundaria, entonces no será necesario enviar dichos certificados.
- hacer los exámenes de aptitud necesarios, o exámenes específicos si son requiridos.



CITAS PARA CONSULTAR CON EL CONSEJERO

Después de haber completado todos los requisitos de admisión, todos los estudiantes regulares quienes planeen inscribirse con siete o más unidades deberán consultar individualmente, o en grupos pequeños, al consejero estudiantil para recibir ayuda u orientación en el planeamiento de sus programas académicos antes de inscribirse.

LIMITE DE UNIDADES

Un programa de estudio se considerá normal cuando se lleve 15 unidades cada semestre; a los estudiantes inscritos en 12 o más se les considerará alumnos de tiempo completo. Se prohibe a todo estudiante el inscribirse en más de 19 unidades por semestre sin antes recibir la autorización adecuada de su consejero.

NO SE PERMITE ASISTIR A UNA CLASE COMO OYENTE, CUANDO DICHA CLASE SE OFRECE POR CREDITO.

CUOTA PARA LOS NO-RESIDENTES

Alumnos que sean no-residentes tendrán que pagar una cuota de \$82.00 por unidad durante el año escolar 1983-84. Esta cuota se cobra a la hora de inscripción. El director de la Oficina de Admisión determinará la residencia del alumno. Dicha cuota está sujeta a cambios hechos por la junta directiva, o a través de decretos locales estatales y federales cuando este sea pertinente.

CAMBIOS EN EL PROGRAMA

Ningún cambio de programa será permitido durante el período de inscripciones anterior al principio de clases.

Una vez que el programa académico se ha formalizado, no podrá ser cambiado sin antes llenar el formulario requerido para dejar o aumentar las clases (add-drop slip). Este formulario (add-drop slip) se podrá obtener en la oficina del consejero o en la oficina de admisiones. El estudiante deberá cumplir con los procedimientos requeridos para cambiar este programa.

Un alumno/a no podrá añadir clases nuevas a su programa después del décimo día del semestre, sin antes conseguir un permiso por escrito del profesor y la aprobación necesaria del Director de Admisión.

REGLAMENTO PARA EL RETIRO DE CLASES

Cualquier estudiante que desee retirarse de una clase deberá seguir los procedimientos establecidos por el colegio. Las fechas límites que siguen son de suma importancia e indican la relación entre el retiro de clases y la asignación de calificaciones por parte del profesor.

 Un estudiante podrá retirarse de una clase de duración semestral durante las primeras cuatro semanas de instrucción sin que esta clase figure en su archivo académico. En cursos que duren menos del semestre regular, se podrá retirar antes de completar el 30% de la instrucción impartida, y la clase no figurará en el archivo académico.

- Después de estas fechas, un alumno/a podrá retirarse de una clase normal, aprobada o desaprobada, a cualquier hora hasta llegar a la 14ª semana de instrucción, y una calificación de W será autorizada una vez que el instructor sea informado. En aquellos cursos que duren menos de un semestre, el alumno/a podrá retirarse antes de completar el 75% de la instrucción impartida, y recibirá la calificación de W. Se cobrará una cuota de \$10.00
- El archivo académico del alumno/a reflejará la nota autorizada si éste permanece en la clase más allá de las fechas indicadas anteriormente. Sin embargo, al fin de la 14ª semana (o después de completar el 75% de período de instruccion en cursos do menos duración que los cursos de duración regular), el alumno/a podrá obtener una calificación de W autorizada, una vez que, este solicite una petición que llene los requisitos establecidos por el colegio y con previa autorización del instructor. Este procedimiento es solamente aceptado en casos de cirsunstancias atenuantes, tales como: casos verificados de accidentes, enfermedad, y/o circunstancias fuera del control del estudiante.
- Un alumno/a que no siga las reglas establecidas sobre el retiro de clases podrá recibir la calificación de F.



24 CALIFICACIONES Y HONORES

UNIDADES DE TRABAJO Y DE CREDITO

Una "unidad" de crédito académico normalmente refleja una hora semanal de clase y 3 horas de laboratorio, u otra actividad semejante, durante un semestre.

SIMBOLOS ACADEMICOS Y PROMEDIO DE NOTAS

Las notas en una escala calificativa serán computadas según las calificaciones de puntos recibidos, para así llegar al promedio de notas. La nota más alta recibirá 4 puntos, y la nota más baja recibirá 0 puntos. Se usarán únicamente los símbolos de evaluación siguientes:

Simbolo	Definición	Puntos
A	Excelente	
В	Bueno	
C	Satisfactorio	
D	Deficiente, pero aprobado	
F	Desaprobado	
CR	Crédito (por lo menos satisfactorio	
	C o más unidades recibidas no	
	serán incluidas en el promedio	
	de notas)	
NC	Las unidades Sin Crédito, poco	
	satisfactorias o desaprobadas	
	que no se incluirán en el	
	promedio de notas)	
Name of Street, Street		

Los siguientes símbolos de no evaluados son utilizados por Cañada College:

• I - Incompleto

Este simbolo se usará en casos de trabajos académicos incompletos por razones inprevistas, de emergencia, y justificables. El profesor determinará cuales serán las condiciones para retirar dicho símbolo por escrito, y indicará cual será la nota recibida cuando se retire el símbolo. El alumno/a recibirá una copia de este archivo, y otra copia quedará en la oficina del Director de Admisión. Una calificación permanente se le dará al alumno una vez que éste complete el trabajo estipulado. Si el jamás lo concluye se le asignará al alumno la nota incluida por el profesor en su escrito.

Un símbolo incompleto deberá retirarse a lo más tardar un año después del semestre en que se recibió. Se podrá recibir una extensión en aquellos casos donde existieron circunstancias imprevistas.

El "I" no será utilizado en el cómputo final del promedio de notas.

● IP — En Proceso

Este símbolo será utilizado en el archivo permanente del alumno/ a para verificar que se está inscrito en una clase actual e indicará que el curso se extiende más allá del final de clases. Este símbolo refleja que el trabajo está "en proceso" y que el crédito final será asignado una vez que se concluya el curso.

Si un estudiante está matriculado en un curso con entrada y salida libre (open-entry, open exit course), se le asigna una calificación "IP," y al no reinscribirse en el período subsiguiente, el instructor le asignará un símbolo de evaluación que será registrado en el archivo permanente del estudiante.

El símbolo "IP" no será incluido en el cómputo final del promedio de notas.

• RD - Demora en el Reporte

Este Simbolo será utilizado solamente por el Director de la Oficina de Admisión para el propósito de identificar que ha habido una demora en recibir la nota final a raíz de circunstancias fuera del control del alumno. Este símbolo será retirado una vez que se reciba el símbolo permanente.

El símbolo "RD" no será includo en el cómputo final del promedio de notas.

• W - Retiro de Clases

(Vése Reglamento para el retiro de clases anteriormente mencionado.)

• H-Indica que el profesor no ha dado nota alguna.

PROMEDIO DE NOTAS

El promedio de notas (G.P.A.) se computa al dividir el número total de puntos por calificados, por el número total de unidades intentadas.

OPCION DE CREDITO Y NO CREDITO

Los cursos serán ofrecidos en qualquiera de las dos categorías siguientes, o en ambas:

- Cursos en los cuales todos los alumnos serán evaluados bajo las bases de "Crédito/No Crédito."
- Cursos en los cuales los alumnos podrán elegir, en el momento de inscripción (o dentro de un período definido, sin exceder el primer 30% del semestre), las bases de evaluación estarán bajo el criterio de Crédito/No Crédito o con una nota calificativa.

Los cursos que incluyan dicha opción serán designados como tal por el Director de División, bajo la consulta de profesores apropiados.

El Director de División tendrá que aprobar el uso de una clase con evaluación de Crédito/No Crédito cuando esta clase sea necesaria para satisfacer los requisitos del Certificado.

Solamente un máximo de 12 unidades en las cuales se hubiera recibido la evaluación de Crédito/No Crédito podrían ser aplicadas para el título preuniversitario, y un máximo de 6 unidades para el Certificado.

REPETICION DE CURSO

- Un estudiante que reciba la calificación de D, F, o NC en cualquier curso de crédito dentro de los colegios del distrito de San Mateo podrá repetirlo para mejorar la calificación.
- El alumno/a deberá procurar un permiso por escrito el cual le autorice repetir la materia para mejorar la calificación. El Decano de Administración otorga dichos permisos.
- Normalmente, un alumno/a podrá repetir un curso para mejorar su calificación tan solo una vez. Bajo casos especiales el alumno podrá repetir el curso más de una vez si obtiene el permiso necesario del Decano de Administración.

Una vez que el alumno/a haya completado el curso satisfactoriamente, tendrá que apelar a la Oficina de Admisión para que ésta tome en cuenta únicamente la calificación del curso repetido en el cómputo de promedio de notas.

En ningún caso se podrá tomar en cuenta el valor de unidad del curso repetido más de una sola vez.

El archivo permanente del alumno/a llevará un recuento completo y verdadero de todos los cursos intentados para que éste refleje una historia académica completa.

- Hasta donde sea posible, se le dará al alumno/a al inscribirse en un curso de crédito que tomará por primera vez. El Decano de Administración podrá hacer excepciones en este reglamento.
- La repetición de un curso, cuando se ha llevado a cabo en un colegio fuera del distrito, se podrá tomar en cuenta si el alumno lo solicita a través de la Oficina de Admisión.

REPETICION DE CURSO CIRCUNSTANCIAS ESPECIALES

- Solamente bajo circunstancias educationalmente justificables, pueden repetirse cursos.
- El estudiante debe obtener un permiso por escrito a través de la Oficina del Decano de Administración. El Decano asignará a personas calificados para determinar la existencia de circunstancias que justifiquen la repetición del curso y den un permiso por escrito.
- Normalmente, un estudiante puede repetir un curso una vez solamente. Sólo bajo circunstancias especiales, el estudiante puede solicitar permiso para repetir un curso más de una vez al Decano de Administración.
- Calificaciones otorgadas por cursos repetidos bajo estas circunstancias no se considerán en la evaluación del promedio de notas (G.P.A.) del estudiante.
- El valor de unidades de un curso repetido se contabilizarán una sola vez.
- El archivo académico del estudiante será anotado de tal manera que los cursos intentados serán indicados en el expediente exhibiendo un cuadro académico exacto.

LIBRETAS DE CALIFICACION

Las calificaciones estarán a la disposición del alumno/a por intermedio de los instructores a mediados del semestre. La calificación de medio semestre no forma parte del archivo permanente; se otorga para propósitos de información solamente. Después de que se concluyan los exámenes finales, se le enviará al estudiante una copia de sus calificaciones semestrales, las cuales serán integradas en su expediente.

CAMBIO DE NOTAS

Una nota de A, B, C, D, F, W, CR, NCR (o H) puede ser cambiada por el profesor dentro del plazo de un año si se encuentra un error clerical hecho por el profesor. Tampoco se puede cambiar una nota si el estudiante ha terminado el trabajo del curso después de recibir su nota final. (Por favor ver Simbolos Académicos Y Promedio de Notas.)

HONORES ESCOLARES

Una lista de estudiantes que adquirieron los honores académicos será publicada al final de cada semestre; esta lista se llama la Lista del Decano, y en ella figura el nombre de cada alumno/a que completó 12 o más unidades de trabajo escolar con un promedio de notas de 3.0 (B) o más.

Los honores académicos serán otorgados durante la ceremonía de graduación. Los alumnos que tengan un promedio de notas de 3.3 acumulativo recibirán dichos honores. Los honores mayores se les otorgará a los alumnos que cuenten con un promedio de notas de 3.5 o más.

ALTOS EN EL ARCHIVO ACADEMICO

Se pondrá un alto en los archivos académicos del alumno/a cuando este deba algún dinero al colegio. Se le notificará al estudiente cuando se le haya puesto un alto a su archivo. Tampoco se le permitirá re-inscribirse, ni se enviarán expedientes de su trabajo, cuando exista un alto en el archivo.

GARANTIA DE SECRETO— AVISO ANUAL

El Acta de los Derechos Privados de Educación Familiar (Sección 438, Ley Pública 93-380) fué corregida y ahora exige que las instituciones educacionales faciliten lo siguiente: acceso del estudiante a sus archivos oficiales; una audiencia para apelar en la ocasión de que los archivos contengan algo erróneo o inadecuado, que el Colegio obtendrá el permiso por escrito del alumno/a antes de difundir datos personales suyos, con la excepción de algunas personas o agencias estipuladas por el Acta; y que estos derechos protegerán tanto a los alumnos actuales como a los antiguos.

- Los archivos académicos por lo general incluyen documentos e información relacionada con la admisión, inscripción de clases, calificaciones, y datos académicos del alumno.
- El director de inscripciones, ubicado en la oficina 8, aula 208, ha sido designado como el Oficial de los Archivos, según está estipulado en el Acta.
- Los archivos académicos podrán ser inspeccionados durante horas de trabajo, por alumnos actuales o antiguos, cinco días después de que hayan llenado un formulario con el Oficial de los Archivos, solicitando permiso para examinarlos.
- En un caso dado en que el alumno/a desee preguntar datos acerca de su archivo, lo podrá hacer con el Oficial de los Archivos. Durante este procedimiento informal, el Oficial podrá hacer los cambios necesarios sin que estos estorben la integridad de los archivos profesionales.
- Si estos procedimentos informales no satisfacen al alumno, éste podrá apelar al Oficial Designado, el Decano de Administración, utilizando las formas proporcionadas por su oficina. El Oficial Designado podrá entonces enviar el caso a un Oficial de Apelaciones dentro de un lapso de diez días escolares.
- El Oficial de Apelaciones pondrá una fecha para que se lleve a cabo una audiencia. Una vez consumada la audiencia, el Oficial de Apelaciones entregará su decisión al Presidente del Colegio, el cual tomará la decisión final.
- El Acta indica que el colegio podrá difundir ciertos datos domiciliarios, a menos que el alumno/a objete por escrito y estipule de que dichos datos no podrán ser difundidos sin una autorización previa. Estos datos domiciliarios incluyen: (1) nombre del alumno/a y ciudad de residencia. (2) participación del alumno/a en actividades deportivas o escolares, (3) fecha de inscripción en el colegio, (4) títulos y honores recibidos, (5) institución educativa de procedencia, (6) estatura y peso, cuando el alumno/a es miembro de un equipo atlético.

 Una copia del Reglamento del Colegio, y del Acta de los Derechos privados de Educación Familiar, Sección 438 (PL. 93-380) y otros datos pertinentes estarán a la disposición de quien los desee examinar en la oficina del Oficial de Archivos, edificio 8, aula 208, durante horas hábiles.

DEFICIENCIA EN EL PROMEDIO DE NOTAS

Las leyes académicas del Colegio de Cañada están basadas en un promedio acumulativo de notas de un mínimo de C para que el alumno pueda graduarse o trasladarse a otra institución educativa.

Todas las unidades y promedios de notas serán acumulativas. En todo tiempo, el alumno deberá mantener un promedio total equivalente al doble de las unidades totales (o sea un promedio de C). Por ejemplo: si un estudiante toma 12.5 unidades en un semestre, y 15.5 unidades en otro semestre, sus unidades acumulativas serán de 28, necesitando un promedio de 56.

Cualquier total en el promedio de notas que sea menos de la mitad de las unidades intentadas se considerará deficiente. Los cursos de crédito y no crédito de Cañada no serán afectados por una deficiencia académica.

ESTUDIANTES EN SITUACION DE PRUEBA

 Un estudiante será puesto a prueba académica bajo las siguientes circunstancias.

Situación de prueba basada sobre una deficiencia en el promedio de notas. Un alumno que ha intentado por lo menos 12 unidades en un semestre, según demuestra el archivo cumulativo oficial, será puesto a prueba académica si el promedio de sus notas, en todos los cursos en donde la evaluación se hizó con el sistema ya explicado, no llega a 2.0.

Situación de prueba en el que el resultado del progreso del alumno no ha sido satisfactorio: El alumno que ha intentado por lo menos 12 unidades en un semestre, como lo demuestra su archivo cumulativo oficial, será puesto a prueba académica cuando el 50% o más de las unidades que está tomando sean calificadas de W, I, o NC.

- Estos dos procedimientos para determinar el estado de prueba sirven para retener al alumno, y se aplicarán de tal forma que el alumno quedará en estado de prueba bajo cualquiera de los dos sistemas, como también podrá quedar expulsado posteriormente, si su trabajo continúa siendo deficiente.
- Un semestre en el que un estudiante esté completando una ausencia autorizada con licencia oficial, no será incluído en la 2ª tabulación. (antes indicada)
- Un estudiante a prueba podrá pedir una audiencia al Comité de Leyes Académicas, siguiendo los procedimientos del colegio, para eliminar su estado de prueba si es que ha sido producto de circumstancias fuera de lo común, o de emergencia personal.

ELIMINACION DE LA SITUACION DE PRUEBA

 Un estudiante que está a prueba académica por causa de deficiencia en el promedio de notas saldrá de la situación de prueba cuando su promedio acumulativo de notas sea al nivel de 2.0 o más. Un estudiante que esté a prueba académica y no pueda mantener un progreso satisfactorio deberá ser expulsado de la prueba sabiendo que el porcentage de unidades en esta categoría no excede del 50%.

NOTIFICACION DE NOTAS

Con las notas que se envían a casa por correo al fin del semestre, se incluirá un anuncio indicando si se ha puesto al estudiate en prueba académica o ha sido retirado. Una ves al año, al fin del semestre primaveral, se mandará una carta a todos los estudiantes que están en prueba. Cada semestre se mandará una carta a todos los estudiantes que hayan sido retirados.

EXAMENES DE APTITUD

Cualquier estudiante que quiera matricularse en Inglés 100 o en Ingle 801 tendrá que tomar el examen de Inglés (ENGLISH PLACEMENT TEST). Este examen indicará que el estudiante está bien preparado para tomar estos cursos. El examen incluye vocabulario, comprensión de lectura, y habilidad de escritura.

Cualquier estudiante que quiera matricularse en un curso de de Inglés debe tomar el examen y de esta forma conocerá que nivel le corresponde.

El examen de Matemáticas es obligatorio para cualquier estudiante que quiera matricularse en Matemáticas 110, 111, o 112. Esos estudiantes que piensan matricularse en Matemáticas 120 o 121 y que no hayan pasado Matemáticas 111-112 con una nota de C o mejor serán requeridos a tomar el examen. Ningún estudiante podrá matricularse en estos cursos de matemáticas sin este examen. El resultado del examen indicará que el estudiante está bien preparado para tomar estos cursos.

No es obligatorio que el estudiante tome estos exámenes para matricularse en otros cursos del Colegio de Cañada. Normalmente nadamás se podrá tomar estos exámenes una vez al año durante el tiempo cuando sean dados. Excepciones tienen que ser autorizadas por el Decano de Administración o su ayudante.

TITULO DE A.A/A.S. Y SOLICITUDES DE CERTIFICADO

La Oficina de Admisión procesa toda petición y determina la eligibilidad para el título preuniversitario de letras el el título preuniversitario de ciencias, además de todos los programas de certificado que se ofrecen en el colegio de Cañada. Aspirantes elegibles deberán llenar un formulario solicitando el título apropriado, y/o el certificado además de:

- completar un mínimo de 54 unidades semestrales (o más), para ser un candidato a los estatutos,
- solicitar que todos los certificados procedentes de otros colegios incluyendo todo trabajo que aún está en proceso, se envien de inmediato a la Oficina de Admisión, antes de la fecha límite (Consultar el Calendario de Eventos).
- solicitar una evaluación de todos los expedientes

Para mayores detalles sobre los requisitos de eligibilidad, consulte la sección de planeamiento de programas.

El departamento de Éducación de California ha aprobado el Colegio de Cañada para certificar a los veteranos como estudiantes.

AREA IV. Social and Behavioral Sciences

(3 units required)

Anth 105, 110; Econ 100, 102, *230; Geog 110, 120, 150; Hist *102, *201, *202, *260, **310, **315, *421; PISc 110, 150, *205 (Note: Limited to foreign students or recent immigrants), *210, **310; Psyc 100, 108, 110, 201, 300; SoSc 100; Soci 100, 105. *Indicates American Institutions
**Indicates State and Local Institutions for CSU transfers

AREA V. Ethnic Studies (3 units required)

Anth 340, 360, 370; Art 120; Hist 242, 422, 451, 452; Lit. 266, 268, 371, 372, 375; Psyc 278; SoSc 250, 260; Soci 141.

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:

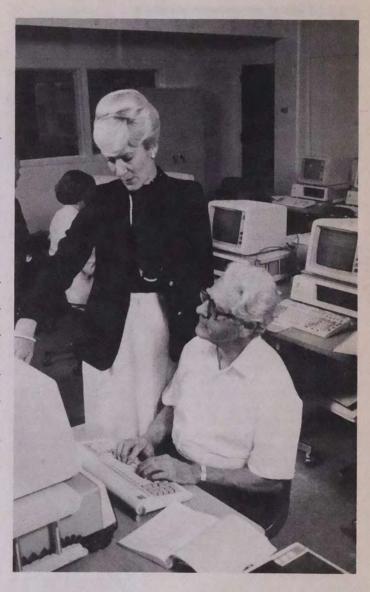
- Graduates of community colleges, other accredited colleges and universities;
- Veterans with one or more years of service;
- Persons excused for medical reasons.

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.

30 OCCUPATIONAL PROGRAMS

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

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



TRANSFER PROGRAMS

C3 |

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

CALIFORNIA STATE UNIVERSITY AND COLLEGES

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

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

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

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

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

at Cañada College without having met high school deficiencies.

CALIFORNIA STATE UNIVERSITY AND COLLEGES GENERAL EDUCATION REQUIREMENTS

eneral education requirements of the California State Universities and Colleges have been met

imum of 39 units.	ina otato om orang	
ish Language & Critical Thinking: 9 uni	ts. One course required from each	ch sub-area.
A2 WRITTEN COMMUNICATION Engl 100	A3 CRITICAL THINKING Engl 165 Phil 103 Phil 200	COMPLETED A1 A2 A3 TOTAL UNITS
Forms: 9 units. One course from Physical Strea B1 or B2 (indicated with *). B2 LIFE SCIENCE Anat 130, 250*, Anth 125, Biology 100, 110*, 111*, 130*, 160, Botany 112*, 145*, 220*, Mbio 240*, NSci 100, Paln 110, Psio 260*, Zool 210*	B3 MATH CONCEPTS REAS. & APPLIC.	COMPLETED B1
hy & Foreign Language: 9 units. Three ses.	e courses to be selected from	UNITS
C2 LITERATURE Dram 142, 143, 144, 151, 152,	C3 PHILOSOPHY History 105, 205,	COMPLETED
Engl 110, Lit. 101, 111, 115, 141, 142, 143, 144, 151, 152, 200, 231,	Philosophy 100, 160, 175, 190, 240,	C1 🗆
232, 233, 251, 252, 266†, 268†, 301, 302, 341, 371†, 372†, 375†, 422, 431,	300, 310, 320	C2 🗆
	imum of 39 units. Ish Language & Critical Thinking: 9 units A2 WRITTEN COMMUNICATION Engl 100 Forms: 9 units. One course from Physical Strea B1 or B2 (indicated with *). B2 LIFE SCIENCE Anat 130, 250*, Anth 125, Biology 100, 110*, 111*, 130*, 160, Botany 112*, 145*, 220*, Mbio 240*, NSci 100, Paln 110, Psio 260*, Zool 210* Thy & Foreign Language: 9 units. Three Ses. C2 LITERATURE Dram 142, 143, 144, 151, 152, Engl 110, Lit. 101, 111, 115, 141, 142, 143, 144, 151, 152, 200, 231, 232, 233, 251, 252, 266†, 268†, 301,	A2 WRITTEN COMMUNICATION Engl 100 Forms: 9 units. One course from Physical Science (B1), Life Science (B2), and the property of the property

441, 442, 455, 461, Spch 111, 112

C4 FOREIGN LANGUAGE	C5 THE DEVELOPMENT	
Fren 110, 111, 112, 120, 121, 122, 130, 140, 161,	OF CULTURES	C4 🗆
162, Germ 110, 111, 112, 120,	Hist 100, 101, 451†, 452†,	05.5
121, 122, Span 110, 111, 112,	SoSc 250†, 260†	C5 🗆
120, 121, 122, 130, 140, 161, 162	330 2301, 2001	TOTAL UNITS
AREA D: Social, Political & Economic Institutions: 9 to satisfy the U.S. History, Constitution & American Institutions only for foreign students. †Ethnic Studies count of AMERICAN INSTITUTIONS Econ 230, Hist 102, 201, 202, 242†, 260, 421, PISc 205*, 210	units (one course from D1 and one course from D2 mus Ideals requirement). *Fulfills American Institutions and urses. D2 STATE/LOCAL INSTITUTIONS Hist 310, 315, PISc 205*, 310	t be completed State & Local UNITS COMPLETED D1 D2
D3 SOCIAL INSTITUTIONS Admj 101, 126, 360, Anth 105, 110, 340†, 360†, 370†, Ece. 212, Geog 110, Psyc 100, 108, 110, 201, 202, 212, 223, 278†, 300, 340, Soci 100, 101, 126, 141†, 360	D4 ECONOMIC/CONTEMPORARY INSTITUTIONS Bus. 100, Econ 100, 102, Envr 120, Geog 120, 150, Hist 422†, Jour 110, 220, 230, PISc 110, 150, SoSc 100, 122, 392, Soci 105	D3 D4 TOTAL UNITS
AREA E: Lifelong Understanding & Self-Development:	: 3 units	
Biol 135, 310, 312, H.Ec. 310, 312 Crer 137, 140,	Fitn 101, 430, HSci 101, 104, 105, 106	TOTAL UNITS
	TOTAL UNITS FULFILLED	(39 units reg.)
	PARTIALLY FULFILLED	
NOTE: To complete General Education 9 units must be t		
THE TO COMPLETE DETECT LUCIDIUM & HINES MILE OF I	aken at the transfer institution	

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

Accounting 100, 121, 131, 171, 190, 310, 680, 690, 695

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

Anatomy 130, 250, 680, 690, 695

Anthropology 105, 110, 125, 340, 360, 370, 680, 690, 695

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

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

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

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

Business 100, 101, 103, 115, 131, 150, 180, 190, 201, 235, 250, 251, 252, 253, 254, 255, 256, 257, 259, 415, 420, 421, 430, 432, 434, 436, 670, 680, 690, 695

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

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

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

Cooperative Education 670

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

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

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

English:

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

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

Environment 120, 680, 690, 695

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

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

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

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

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

History 100, 101, 102, 105, 201, 202, 205, 242, 260, 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, 151, 307, 310, 312, 320, 410, 416, 420, 680, 690, 695, 830

Humanities 100, 680, 690, 695

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

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

Library 100

Life Science 670

Management 100, 105, 110, 120, 130, 136, 137, 215, 220, 225, 235, 240, 281, 282, 670, 680, 690, 695

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

Microbiology 240, 680, 690, 695

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

Natural Science 100, 680

Oceanography 100, 680

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

Paleontology 110, 680, 690, 695

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

Physical Education:

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

Aquatics 100, 680

Combatives 401, 680

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

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

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

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

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

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

Physical Science 101, 670, 680, 690, 695

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

Physiology 256, 260, 680, 690, 695

Political Science 110, 150, 205, 210, 310, 680, 690, 695

Psychology 100, 105, 108, 110, 201, 202, 210, 211, 212, 221, 223, 278, 300, 340, 370, 391, 680, 690, 695

Radiologic Technology 420, 430, 495

Real Estate 100

Russian 110, 111, 112

Social Science 100, 122, 200, 250, 260, 392, 670, 680, 690, 695 Sociology 100, 101, 104, 105, 120, 126, 141, 360, 680, 690, 695 Spanish 110, 111, 112, 120, 121, 122, 130, 140, 161, 162, 196,

680, 690, 695

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

Tourism 100, 101, 103, 104, 200, 670, 680, 690, 695 Zoology 210, 680, 690, 695

UNIVERSITY OF CALIFORNIA

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

Not all Cañada 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 depend-

ing upon your major.

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

Accounting 121 (5); 131 (5)

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

Anatomy 250 (W/Lab 4)

Anthropology 105 (3); 110 (3); 125 (3); 340 (3); 360(3); 370 (3); 680 (1-3); 690 & 695 (See Independent Study)

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

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

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

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

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

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

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

Business 201 (3)

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

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

410 following 210: no credit for 410.

420 and 220 combined: no credit for 420.

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

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

Cooperative Education 670 (See Independent Study)

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

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

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

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

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

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

*Engineering 100 (2); 200 (2); 220 (2); 230 (3); 260, 260L (3/Lab 1); 680 & 690 & 695 (See Independent Study)
*Maximum credit allowed, 16 units

English:

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

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

Engl/Lit 680 & 690 (See Independent Study)

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

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

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

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

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

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

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

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

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

History 100, 101 (3, 3); *102 (3); 105 (3); *201, *202 (3, 3); 205 (3); 242 (3); 260 (3); 310 (3); 421 (3); 422 (3); 451, 452 (3, 3); 650 (1-3); 680 & 690 & 695 (See Independent Study) *102 & 201, 202 combined: no credit for 102

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

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

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

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

Library Science 100 (1)

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

*Check for duplication of credit

Microbiology 240 (W/Lab 5)

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

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

Natural Science 100 (3)

Oceanography 100 (3)

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

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

Physical Education:

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

Aquatics *100 (1.5 each)

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

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

Fitness *100 through 315 (1-3 each)

Individual *121 through 303 (1-3 each)

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

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

Varsity *100 through 341 (1-2 each)

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

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

‡ Any or all of these courses combined: maximum credit allowed.

12 units

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

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

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

210, Lab + 270: deduct 1 unit from 210, Lab

220, Lab + 260: deduct 2 units from 220, Lab 220, Lab + 270: deduct 2 units from 220, Lab

120 following 210 or 250: no credit for 120

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

Political Science 110 (3); 150 (3); 210 (3); 310 (3); 680 (1-3)

Psychology 100 (3); 105 (3); 110 (3); *201 (3); *202 (3); 278 (3); 300 (3); 340 (1.5-3); 680 (1-3); 690 & 695 (See Independent Study)

*201 & 223: maximum credit allowed, 1 course.

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

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

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

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

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

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

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

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

Cooperative Education 670 same as 690 transfer credit

36 ASSOCIATE DEGREE MAJORS

ASSOCIATE IN ARTS OR ASSOCIATE IN SCIENCE DEGREE

Majors	A.A.	A.S.
Accounting		•
Anthropology	•	
Architecture		•
Art	•	
Biology		•
Business Administration		•
Chemistry		•
Computer Inform. Systems		•
Dental Hygiene		•
Pre-Dentistry		•
Drama	•	
Early Childhood Education	•	
Economics	•	
Engineering		•
English	•	
Geography		
Geology	0.2	•
History		
Home Economics		
Industrial Arts		
Integrated Information Processing/ Office Administration		
Interior Design		
Journalism		
Pre-Law		
Management		
Mathematics		
Medical Lab Technician		
Pre-Medicine		
Microcomputer		
Technician		
Music	•	
Nursing		
Oceanography		•
Optometry		•
Pharmacy		•
Philosophy	•	
Physical Éducation	•	
Physical Therapy		•
Physics		•
Political Science	•	
Psychology	•	
Sociology	•	
Speech	•	
Tourism	•	
Pre-Veterinary Medicine		•





BASIC AND APPLIED 37 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 pre-professional requirements necessary to transfer are offered in the Biological Sciences. Physical Sciences, and Mathematics Departments. Pre-professional students should check the specific requirements of the school to which he/she will be applying prior to defining the exact pre-professional course of study.

CAREER OPPORTUNITIES

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

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

Environmental Science: Fisheries, Forestry, Natural Resources,

Environmental Science: Fisheries, Forestry, Natural Resources Range Management, Wildlife Management. Anthropology: Consulting and City Planning.

BIOLOGY AND APPLIED FIELDS

RECOMMENDED TRANSFER PROGRAM (Biology, Agriculture, Physiology, Microbiology, Botany, Entomology, Zoology, Public Health, Medical Technology, etc.) MATH 241, 242 Applied Analytic Geometry & Calculus CHEM 210, 220 General Chemistry 10 CHEM 231 Organic Chemistry 5 CHEM 250 Quantitative Analysis (Recommended) 4

PHYS 210, 220 General Physics BIOL 110 Principles of Biology		 8
BIOL 130 Human Biology BOTY 220 General Botany		4 5
ZOOL 210 General Zoology Foreign Language		5

DENTAL HYGIENE

High School Preparation: Chemistry, Mathematics nometry	Units
CHEM 210 General Chemistry	5
CHEM 231 Elem. Organic	
BIOL 110 Principles of Biology	 4
ZOOL 210 General Zoology	
PSYC 100, 105 — General, Experimental	
Foreign Language	
Geometry & Calculus	-
*PHYS 210 General Physics	 1
*(Minimum requirements — Humboldt State Univ.)	

MEDICAL LAB TECHNICIAN

RECOMMENDED TRANSFER PROGRA Recommended High School Preparation Plane Geometry, Intermediate Algebra, T Biology, Physics, Foreign Language. BIOL 110 Principles of Biology	n. Elementary Algebra, rigonometry, Chemistry, Units
or BIOL 130 Human Biology ZOOL 210 General Zoology BOTY 220 General Botany	
MBIO 240 General Microbiology CHEM 210, 220 General Chemistry CHEM 250 Quantitative Analysis CHEM 231 Organic Chemistry PHYS 210, 220 General Physics	

NURSING

RECOMMENDED TRANSFER PROGRAM High School Preparation: Chemistry, Intermediate Algebra, CHEM 410, 420 Health Science Chemistry	Units 8
ANAT 250 Anatomy PSIO 260 Human Physiology MBIO 240 General Microbiology BIOL 310 Nutrition	5
or ANTH 110 Cultural Anthropology PSYC 100, 201 General, Child Development	

OPTOMETRY

High School Preparation: Chemistry, Physics, Foreign Languitour years of college preparatory, Math	uage,
four years of college preparatory Math. MATH 241, 242 Applied Analytic	Units
Geometry & Calculus	. 10
CHEM 210, 220 General Chemistry	. 10
PHYS 210, 220 General Physics	
BIOL 110 Principles of Biology	4
ZOOL 210 General Zoology PSYC 100 General Physics	
Foreign Language	

PHARMACY RECOMMENDED TRANSFER PROGRAM	MATH 241, 242 Applied Analytic Geometry & Calculus
High School Preparation: Physics, Chemistry, four years of college preparatory Math. Units	COMPUTER
MATH 241, 242 Applied Analytic	INFORMATION SYSTEMS
Geometry & Calculus 10 CHEM 210, 220 General Chemistry 10 CHEM 250 Quantitative Analysis 4	The Computer Information Systems (CIS) Program is designed to provide both an academic and a practical laboratory back-
PHYS 210, 220 General Physics 8	ground for people who plan to work directly or indirectly in the
BIOL 210 Principles	computer field. Cañada College is equipped with micro- and mini-computers.
ZOOL 210 General Zoology	All computer laboratories provide individual direct access to the
	computer. Course offerings include: Introduction to Computer Science,
PHYSICAL THERAPY	Assembly Language, BASIC, COBOL, FORTRAN, and Pascal
RECOMMENDED TRANSFER PROGRAM Units	programming languages, Files and Data Base Management, Advanced Topics in Programming, Statistics, and Finite Mathema-
BIOL 110 Principles of Biology	tics with Computer Applications. In addition, the microcomputers
PSIO 260 Human Physiology	can be used to provide computer-assisted instruction (CAI) in
CHEM 410, 420 Health & Science Chemistry	various courses, and the minicomputer can be used for word- processing in English composition and other courses.
PHYS 210 General Physics	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
PRE-DENTISTRY	possess a degree may take a Certificate to provide them with
RECOMMENDED TRANSFER PROGRAM	skills necessary in the computer field. Students may also complete the preparation for a B.A./B.S. degree major and then
High School Preparation: Chemistry, Mathematics through Trigonometry.	transfer to a four-year college or university.
CHEM 210, 220 General Chemistry	The Certificate will be awarded in two options:
CHEM 250 Quantitative Analysis (Recommended) 4	CIS — Computer Science
CHEM 231 Organic (Recommended) 5	 CIS — Business A normal sequence of computer courses for CIS-Computer
PHYS 210, 220 General Physics 8 BIOL 110 Principles of Biology 4	Science Certificate students is COMP 103, one of the three
or	language courses, COMP 179, and COMP 245. A normal sequence of computer courses for CIS-Business
BIOL 130 Human Biology 4 ZOOL 210 General Zoology 5	Certificate students is BUS. 103, COMP 151, COMP 170 or
PSYC 100, 105 — General, Experimental	COMP 155, COMP 179.
Foreign Language	The A.S. degree will be awarded in five options:
Geometry & Calculus	 Computer Science Computer Science/Engineering
	Computer Science/Business
PRE-MEDICINE	Computer Science/Social Science Transfer Program
RECOMMENDED TRANSFER PROGRAM High School Preparation: Chemistry, Mathematics. Four years of	Career Opportunities
college preparatory Math, Physics.	The career opportunities available with a background in
college preparatory Math, Physics. CHEM 210, 220 General Chemistry. CHEM 250 Quantitative Analysis. 4	Computer Information Systems are vast and varied An
CHEM 231 Organic Chemistry	increasingly greater number of personnel skilled in CIS are needed as designers and manufacturers of computer systems,
BIOL 110 Principles of Biology	as engineers and scientists for research and development of
ZOOL 210 General Zoology 5 PHYS 210, 220 General Physics 8	computer systems, and as sales personnel skilled in marketing methods for selling computer systems. Programmers, managers,
Foreign Language 0-8	and computer operators are needed, as well as personnel for
MATH 241, 242 Applied Analytic Geometry & Calculus 10	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
PRE-VETERINARY MEDICINE	projects); specialists in areas such as business, engineering,
RECOMMENDED TRANSFER PROGRAM	science, education and government, and management inter- preters of computer systems needs and opportunities.
High School Preparation: Chemistry, Physics, Foreign Language, four years of college preparatory Math. Units	CERTIFICATE PROGRAM IN CIS - COMPUTER SCIENCE
CHEM 210, 220 General Chemistry	CORE REQUIREMENTS Units
CHEM 231, 232 Organic Chemistry 10 PHYS 210, 220 General Physics 8	COMP 103 Intro. to Computer Science
BIOL 110 Principles of Biology	or
ZOOL 210 General Zoology	COMP 162 FORTRAN Programming

or

Foreign Language0-8

COMP 170 Pascal Programming	ASSOCIATE IN SCIENCE DEGREE COMPUTER SCIENCE/SOCIAL SCIENCE Certificate Core Courses (CIS – Computer Science) SOSC 100 Survey of the Social Sciences (Emphasis is on the impact of computers) 3 MATH 200 Statistics 4 SOSC 122 Social Science Research Methods Electives Social Science (Recommended: PSYC 100, ECON 100 & SOCI 100) 9 General Education Requirements 18 Physical Education 2 Total 61–62
CERTIFICATE PROGRAM IN CIS — BUSINESS	TRANSFER REQUIREMENTS
CORE REQUIREMENTS BUS. 103 Intro. to Bus. Computer Systems	Preparation for the major General Education (Cal. State Universities and U.C.) 39 Total electives as needed
COMP 181 Programming for Files	Many university 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.
Computer Applications	ENCINEEDING
ACTG 121 Financial Accounting or ACTG 100 and ACTG 190	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, 1970.
(CIS-Computer Science) 22 MATH 200 Statistics 4 MATH 251 Analyt. Geometry & Calculus 10 COMP or MATH courses not included in the above 6 General Education Requirements 18	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.
Physical Education 2 Total 60.5 ASSOCIATE IN SCIENCE DEGREE COMPUTER SCIENCE/ENGINEERING Units Certificate Core Requirements	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.
*COMP 275 Assembly Language 3 ENGR Courses 3-4 MATH 251 Analyt. Geometry & Calculus 10	ENGINEERING (Civil, Mechanical, Chemical, Electrical, Environmental, Materials, and Other Principal Branches)
PHYS 250 General Physics	RECOMMENDED TRANSFER PROGRAM Recommended High School Preparation: Mathematics (four years), Chemistry (one year), Physics (one year), Mechanical Drawing (one year). MATH 251, 252, 253 Analytic Geometry & Calculus MATH 275 Differential Equations MATH 275

ENGR 260 Circuits & Devices (with lab)
ENGINEERING (Technical Program)
RECOMMENDED TRANSFER PROGRAM Recommended High School Preparation: Mathematics (fou years), Chemistry (one year), Physics (one year), Mechanica Drawing (one year). ENGR 100 Engineering & Environment MATH 241, 242 Applied Analytic
Geometry & Calculus 10 CHEM 410, 420 Health & Science Chemistry 8
PHYS 210, 220 General Physics COMP 155 BASIC COMP 162 FORTRAN

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

MATHEMATICS

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
MATH 270 Linear Algebra	3
COMP 162 FORTRAN	3
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	Units
Health Sciences	1
MATH 410 Technical Math	3
OPTH 400 Intro. to Ophthalmic Optics	3
OPTH 411 Lab Techniques I	1
OPTH 412 Lab Techniques II	4
OPTH 412 Lab Techniques II	4
OPTH 431 Lenses	3
OPTH 441 Fabrication	2
OPTH 460 Anatomy & Physiology	
of the Eye	3
OPTH 471 Dispensing Techniques I	3-5
OPTH 472 Dispensing Techniques II	3-5
OPTH 491 Contact Lenses I	35
OPTH 492 Contact Lenses II	2.5
DHVC 401 Coometrie Option	3.5
PHYS 481 Geometric Optics	3
OPTH 670 Co-op. Ed.	4-8
OPTH 690 Special Projects	2
A grade of C or better is necessary for progression sequence.	in the

PHYSICAL EDUCATION/ ATHLETICS

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

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

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

CAREER OPPORTUNITIES

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

VARSITY ATHLETICS

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

PHYSICAL EDUCATION

RECOMMENDED TRANSFER PROGRAM Complete appropriate	Units
prerequisite for the major	19-23
ANAT 250 Anatomy PSIO 260 Human Physiology	4
Physical Education Activities	4-8

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

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 COMP 155, 162 BASIC, FORTRAN	Units
*MATH 241, 242 Applied Analytic	5-0
Geometry & Calculus	10
*PHYS 210, 220 General Physics	
ENGR 111 Surveying (CSM)	3
ENGR 100 Engineering & Environment	. 2
ENGR 220 Graphics	
ART 201 Form & Composition	
ENGR 200 Descriptive Geometry (Recommended)	2
ART 305-3-D Design (Recommended)	3
*Math 251, 252, 253, and Physics 259, 260, 270 sec place of Math 241, 242 and Physics 210, 220 are recor	nmended
for those contemplating transfer to California State Po	olytechnic
Colleges.	

CHEMISTRY

HEOOMMENDED INVITED EN THOUSEN	Units
MATH 251, 252, 253 Analytic	
Geometry & Calculus	15
MATH 275 Ordinary Differential Equations	
PHYS 250, 260, 270 General Physics	
CHEM 210, 220 General Chemistry	
CHEM 250 Quantitative Analysis	
CHEM 231 Organic Chemistry	5
Foreign Language	0 - 12

ELECTRONICS

RECOMMENDED TRANSFER PROGRAM	Units
ENGR 100 Engineering & Environment	2
ENGR 260 Circuits & Devices	
MATH 251, 252, 253 Analytic	24
Geometry & Calculus	15
COMP 162 FORTRAN	
PHYS 250, 260, 270 General Physics	
CHEM 210, 220 General Chemistry	10
BUS 100 Survey of Business	

GEOLOGY

RECOMMENDED TRANSFER PROGRAM	Units
MATH 251, 252 Analytic Geometry & Calculus	10
PHYS 210, 220 General Physics,	8
GEOL 210 General Geology	
GEOL 220 Historical Geology	
GEOL 110 Geological Hazards	3
CHEM 210, 220 General Chemisty	10
ENGR 110 Surveying	3

INDUSTRIAL ARTS

TIEGOMMENDED THATOLETT THE GROWN		Uni	ts
MATH 220 Pre-Calculus College Albegra			3
CHEM 410 Health Science Chemistry			
PHYS 210 General Physics			
The following may be required depending on trans PHYS 220 General Physics	 		

OCEANOGRAPHY

RECOMMENDED TRANSFER PROGRAM

High School Preparation: Chemistry, Physics, four year	
college prep Math.	Units
*MATH 251, 252, 253 Analytic	
Geometry & Calculus	15
*CHEM 210, 220 General Physics	
*PHYS 250, 260, 270 General Physics	
*BIOL 110 Principles	
GEOL 210 General Geology	
ZOOL 210 General Zoology	
BOTY 220 General Botany	
MATH 200 Elem Probability & Statistics	4
*(Minimum requirements — Humboldt State Univ.)	
(William requirements—Humboldt State Only)	

PHYSICS

RECOMMENDED TRANSFER PROGRAM

High School Preparation: Physics, Chemistry, college preparatory Math.	11-14-
MATH 251, 252, 253 Analytic Geometry & Calculus MATH 275 Differential Equations	 15
COMP 162 FORTRAN	 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 ANAT 250 Anatomy*	Units 4
PHYS 405 Radiation	
MATH 410 Math for Technology*	3
ENGL 100 Composition*	
PSIO 256 Principles of Physiology	4
RADT 495 Nursing for	
Radiographers	2
RADT 400 Orientation	
RADT 410 Positioning	
RADT 420 Exposure	
RADT 430 Radiation Health	
& Protection	3
RADT 440 Advanced Techniques	3
General Education	9
Physical Education	
A grade of "C" or better is necessary for progression	
sequence.	
RADT 418, 428, 438, 448, 458	28
These are Clinical Education Labs which total 2,000 hou	
accompany Radiological Technology courses.	
*May be used to satisfy general education requirements	for the
A.S. Degree.	

The Business/Social Sciences/Training Division offers courses and programs through a number of departments in addition to the Management & Training Institute. The following departments comprise the Division:

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

ACCOUNTING

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

RECOMMENDATIONS

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

CAREER OPPORTUNITIES

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

TRANSFER PROGRAM

See Business Administration

A.S. DEGREE PROGRAM

A.S. DEGREE PROGRAM	
CORE REQUIREMENTS BUS 100 Survey of Business ACTG 121 Financial Accounting ACTG 180 Payroll & Business Taxes ACTG 212 Manufacturing Accounting or ACTG 131 Managerial Accounting BUS 103 Intro. to Bus. Computer Systems Total General Education Business Electives Electives from Business or other disciplines	3-5 3 17-19 18 6 22
ACCOUNTING CERTIFICATE PROGRAM BUS. 100 Survey of Business ACTG 100 Accounting Procedures or ACTG 121 Financial Accounting ACTG 190 Computerized Accounting BUS. 415 Computer Keyboarding ACTG 212 Manufacturing Accounting or ACTG 131 Managerial Accounting ACTG 180 Payroll & Business Taxes Total Electives from list below Total	3-5 3-5 3-5 3-6 16.5-20.5 6 22.5-26.5
BUS. 201 Business Law MGMT 290 Commercial Credit Mgmt. OFAD 401 Business Communications BUS. 670 Cooperative Ed ACTG 171 Income Taxes	

ADMINISTRATION OF JUSTICE

BUS. 434 Microcomputer Spreadsheet Lotus 1-2-3*

BUS. 103 Intro. to Bus. Computer Systems

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

CAREER OPPORTUNITIES

* Lotus Dev. Corp. 1

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

TRANSFER PROGRAM

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

Listed below are the courses in this field which are transferable to four-year institutions:

ADMJ 101 Survey of the Criminal Justice

System in American Society

ADMJ 104 Concepts of Criminal Law

ADMJ 126 Juvenile Delinquency

ADMJ 350 Introduction to Corrections

ADMJ 360 Introduction to Criminology ADMJ 370 Introduction to Counseling

SPECIAL TRAINING

Cañada College is also the provider of a state-mandated Standards and Training for Corrections (STC) Program for local correctional agencies. The STC Program is funded under SB 924 Smith, effective July 1, 1980. The College works in conjunction with probation and corrections agencies to provide these training courses to improve the skills of their staff. Courses are also open to the general student population.

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	nits
of the World	. 3
ANTH 110 Cultural Anthropology	. 3
ANTH 125 Physical Anthropology	. 3
BIOL 130 Human Biology ECON 100 Principles of Macro Economics	. 4
ECON 102 Principles of Micro Economics	. 3
PHIL 100 Introduction to Philosophy	. 3
SOSC 122 Social Science Research Methods	. 3
SOCI 100 Introduction to Sociology	. 3

ASSOCIATE IN ARTS DEGREE PROGRAM

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

OTHER COURSES IN ANTHROPOLOGY ANTH 340 California Indians 3 ANTH 360 Indians of North America 3 ANTH 370 Pre-Columbian Peoples & Cultures of Mexico & Central America 3 ANTH 680 Special Topics in Anthropology 1–3

BUSINESS ADMINISTRATION

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

CAREER OPPORTUNITIES

The career opportunities available to a student who majors in Business Administration are extremely diverse. The general nature of the courses would offer a student an opportunity to work in almost any business discipline.

RECOMMENDED TRANSFER PROGRAM PREPARATION FOR MAJOR ACTG 121 Financial Accounting	
ACTG 131 Managerial Accounting	5
BUS. 103 Intro. to Bus. Computer Systems BUS. 201 Business Law	3
ECON 100 Macro Economics	3
ECON 102 Micro Economics	3
MATH 125 Elem Finite Math*	3
MATH 126 Finite Math with Computer Applications*	
MATH 200 Statistics	4
MATH 241 Applied Anal.	
Geometry and Calculus*	5
MATH 242 Applied Anal. Geometry and Calculus* Please consult with your counselor and the catalog of the	ne
university or college you wish to attend for specific requirement *These Math courses are not required by all universities are	S.

university or college you wish to attend for specific requirements.

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

A.S. DEGREE — BUSINESS ADMINISTRATION

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

CERTIFICATE PROGRAM — BUSINESS ADMINISTRATION ACTG 121 Financial Accounting	Units
BUS. 100 Survey of Business	3
BUS 101 Human Relations in Business	
BUS. 103 Intro. to Bus. Computer Systems	3
BUS. 115 Business Math	3
BUS. 420 Intro. to APPLE Computer	3
BUS. 430 Intro. to IBM/PC	. 1.5
OFAD 401 Business Communications BUS. 434 Microcomputer Spreadsheet Lotus 1-2-3* * Lotus Dev. Corp.™	3
Total	. 27.5

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.

ments.	
PSYC 100 General Psychology	Units 3
ECE./PSYC 210 Early Childhood Education	3
Principles ECE/PSYC 211 Early Childhood Education Curriculum	3
Curriculum ECE./PSYC 212 Child, Family and Community	3
CERTIFICATE PROGRAM IN EARLY CHILDHOOD EDUCATION	
Any of the following courses may be selected for a to units:	otal of 24
ECE./PSYC 210 Early Childhood Education	
Principles ECE./PSYC 211 Early Childhood Education	1-3
Curriculum ECE./PSYC 212 Child, Family and Community	1-3
ECE. 230 Creative Activities for the Young Child	3
ECE. 240* Early Childhood Education	
Administration I (business/legal) ECE. 241 Early Childhood Education	3
Administration II (human relations)	3
ECE. 243 Microcomputers in Early Child. Ed.	3
ECE. 245 Teaching & Management Internship I	3_10
ECE. 246 Teaching & Management	
Internship II	5-10
ECE. 311 Nutrition for Young Children ECE. 313 Health and Safety for Young Children	1
ECE, 6/0 Cooperative Education	1-4
ECE. 690 Special Topics in ECE ECE. 690 Special Project	0.5-3
ECE./LIT. 191 Children's Literature	3
PSYC 201 Child Development	3
PSYC 221 The Special Child PSYC 223 Infant Behavior	3

PSYC 391 Parenting
ART/MUS. 190 Fine Arts for Children
*12 units of course work (or euqivalent 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.)

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 12 units of ECE/Child Development at an advanced level, may acquire the Children's Center Supervision Permit. The additional requirement of the California Basic Educational Skills Test (CBEST) now exists.

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 a training setting. Students participate on a Bing teaching team and attend a weekly management seminar. Individual contracts are constructed with the supervisors and eligible students, depending on their educational and experiential backgrounds. Units apply toward the ECE Certificate, the Children's Center Instructional Permit, or the Children's Center Supervisory Permit. For more detail, see course descriptions ECE. 245 and ECE. 246

ECONOMICS

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

CAREER OPPORTUNITIES

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

TRANSFER PROGRAM

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

RECOMMENDED TRANSFER PROGRAM	Units
ECON 100 Principles of Macro Economics	
ECON 102 Principles of Micro Economics	
ECON 230 Economic History of United States	
ACTG 121 Financial Accounting	5
ACTG 131 Managerial Accounting	5
MATH 125 Elementary Finite Math	3
MATH 241/242 Applied Anal. Geometry and Calculus SOSC 122 Social Science Research Methods	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. Courses in natural science, social science, humanities, learning skills, and ethnic studies areas (minimum of one in each) must be taken. In addition, students will take 18–24 units in the area of concentration, with the balance of the 60 units in elective courses.

GEOGRAPHY

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

CAREER OPPORTUNITIES

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

TRANSFER PROGRAM

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

RECOMMENDED TRANSFER PROGRAM GEOG 100 Physical Geography	
GEOG 110 Cultural 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 210 General Geology	3
GEOL 220 Historical Geology	3
HIST 201 United States History to 1865	3
HIST 202 United States History since 1865	3
SOCI 100 Introduction to Sociology	3

ASSOCIATE IN ARTS DEGREE PROGRAM

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

HISTORY

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

CAREER OPPORTUNITIES

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

TRANSFER PROGRAM

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

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

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

ASSOCIATE IN ARTS DEGREE PROGRAM

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

HOME ECONOMICS

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

The curriculum provides for individual development in 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, consulting, fashion merchandising, and textile merchandising.	fashion dising.
RECOMMENDED TRANSFER PROGRAM	
PREPARATION FOR GENERAL	100100
HOME ECONOMICS MAJOR H.E. 111 Techniques of Fit*	Units
H FC 113 Textiles	3
H.EC 113 Textiles H.EC 115 Intermed. Clothing Construction	3
H.EC 310 Nutrition	3
H.EC 416 Consumer Decision Making	3
INTD 115 Your Home & Your Environment	3
PSYC 100 General Psychology PSYC 201 Child Development	3
or	
PSYC 212 Child Family and Community	3
Total	24
*If no previous clothing construction experience, take H.E. 112 before H.EC.111.	C 110 or
Please consult with your counselor and the catalog	of the
University or College you wish to attend for specific requir	ements
A.S. DEGREE PROGRAM	0,1,10,110,
IN HOME ECONOMICS	
This program leads to a 2-year degree in Home Eco	nomics.
Most but not all courses are transferable to a 4-year	college.
Consult your counselor concerning fulfilling requirements	3.
CORE REQUIREMENTS	Units
H.EC 111 Techniques of Fit	3
H.EC 115 Intermediate Clothing Const. and/or	3
H.EC 116 Advanced Construction/Tailoring	3
H.EC 117 Fashion Image	3
H.EC 307 Food Preparation	3
or H.EC 320 Applied Nutrition	
Cooking for Health	3
H.EC 310 Nutrition	3
H.EC 410 Management of Time & Resources	2
H.EC 416 Consumer Decision Making	
BUS. 131 Consumer Finance	3
H.EC 420 Computer Applications/H. Mgt	1
Total	21
General Educ. Requirements Electives (see counselor for list of suggested	18
electives for different interest areas	
of H.Ec.)	21
Total	60
A.S. DEGREE IN TEXTILES & CLOTHING	Units
Core requirements same	-
as A.S. degree in H.Ec. General Ed. Requirements same as in H.Ec.	10
Additional requirements:	
H.EC 113 Textiles H.EC 118 Flat Pattern Design	3
H.EC 118 Flat Pattern Design	3
H.EC 123 Intro. to Fashion Industry H.EC 120 Creative Clothing Const.	3
Electives	9
Total	60
CERTIFICATE PROGRAM—	

Core H.EC courses (same as A.S. Degree) 21
Electives in Home Economics 6

CERTIFICATE PROGRAM—
GENERAL HOME ECONOMICS

CERTIFICATE PROGRAM — TEXTILES & CLOTHING

(Emphasis on custom dressmaking & apparel design)	Units
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	3 3 3
15 units from Group B: H.EC 117 Fashion Image H.EC 118 Flat Pattern Design H.EC 120 Creative Clothing Const. H.EC 123 Intro. to Fashion Industry H.EC 124 Art in Clothing H.EC 151 Fashion Merchandising H.EC 410 Management of Time & Resources H.EC 420 Computer Applications/H. Mgt. Selected construction electives, including H.EC 699 Clothing Construction Lab Total	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

SUGGESTED ELECTIVES FOR TRANSFER AND A.S. DEGREE PROGRAMS H.EC 110 Beg. Clothing Construction 3 H.EC 113 Textiles 3 H.EC 312 Nutrition/Health/Disease 3 H.EC 699 Open Lab for Clothing Const. 0.5-4 INTD 115 Your Home & Your Environment 3 PSYC 201 Child Development 3

INTEGRATED INFORMATION PROCESSING

The Integrated Information Processing Department prepares students for both entry-level positions and supervisory roles in office administration. The department prepares students to develop and organize information through the application of computer/office technology. A.S. Degree and certificate programs are offered by the the College. Courses specifically required for the student's major must be evaluated by a letter grade, not by the credit (CR) grade.

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 positions.

OPTION ONE

CERTIFICATE PROGRAM OFFICE ADMINISTRATION

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

BUS. 101 Human Relations in Business OFAD 110 Intermediate Typewriting or	nits 3
OFAD 120 Advanced Typewriting OFAD 240 Shorthand Enrichment 1 OFAD 300 Machine Transcription 2 OFAD 332 Basic Word Processing (Wang)	-3

or BUS. 432 Microcomputer Word Processing WordStar* OFAD 400 Business English OFAD 401 Business Communications OFAD 412 Filing and Records Management BUS. 420 Intro. to Apple Computer or BUS. 430 Intro to IBM/PC OFAD 450 The Integrated Office 1-3 Total *MicroPro™ 1.5 *MicroPro™	EC .
A.S. DEGREE — OFFICE ADMINISTRATION Select courses from certificate program, refer to graduation requirements and consult your counselor.	()
RECOMMENDED ELECTIVES ACTG 100, BUS. 100, BUS. 103, BUS. 115, BUS. 201, BUS. 415, BUS. 421, BUS. 434, OFAD 331, OFAD 333, OFAD 334, COMP 670, MGMT 225.	1000
OPTION TWO	
CERTIFICATE PROGRAM ADMINISTRATIVE ASSISTANT The Administrative Assistant option is for individuals who wish to prepare for top-level secretarial and administrative assistant positions working closely with management in any type of business, professional, educational, and industrial office. PREREQUISITE: Completion of Office Administration Certificate option or equivalent training or experience. Units ACTG 100 Principles of Accounting 3-4 BUS. 101 Human Relations in Business 3 BUS. 103 Introduction to Bus. Computer Systems 3 BUS. 201 Business Law 3 ECON 100 Principles of Macro Economics 3 ECON 102 Principles of Micro Economics 3 MGMT 225 Office Management 3 MGMT 235 Techniques of Supervision 3 OFAD 331 Intro. to Word Processing Concepts 1 Total 25-26	
A.S. DEGREE - ADMINISTRATIVE ASSISTANT	
Select courses from certificate program, refer to graduation requirements and consult your counselor.	
RECOMMENDED ELECTIVES BUS. 100, BUS. 115, BUS. 415, BUS. 421, BUS. 434, ACTG 190, MGMT 100, MGMT 120, MGMT 136, MGMT 137, MGMT 215	
OPTION THREE	
CERTIFICATE PROGRAM	

190, MGMT 100, MGMT 120, MGMT 136, MGMT 137, MGMT 215	
OPTION THREE	
CERTIFICATE PROGRAM GENERAL OFFICE	
The General Office option is for individuals who wish employment in entry-level positions such as clerk-typist or general business offices. OFAD 110 Intermediate Typewriting	
OFAD 300 Machine Transcription 2–4 OFAD 332 Basic Word Processing (Wang) 1.5 OFAD 333 Inter. Word Processing (Wang) 1.5 or	
BUS. 432 Microcomputer Word Processing WordStar* OFAD 400 Business English OFAD 401 Business Communications OFAD 412 Filing and Records Management BUS. 101 Human Relations in Business BUS. 420 Intro. to Apple Computer or	

BUS. 430 Intro to IBM/PC OFAD 450 The Integrated	Office	 	 1-3
Total		 	 21 – 26.5

A.S. DEGREE - GENERAL OFFICE

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

RECOMMENDED ELECTIVES

ACTG 100, BUS. 100, BUS. 110 or BUS. 115, BUS. 415, BUS. 421 or BUS. 424, OFAD 331, OFAD 334, OFAD 450.

OPTION FOUR

CERTIFICATE PROGRAM WORD/INFORMATION PROCESSING

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

	Units
OFAD 110 Intermediate Typewriting	3
OFAD 300 Machine Transcription	2-4
OFAD 331 Intro. to Word Processing	
Concepts	
OFAD 332 Basic Word Processing (Wang)	
OFAD 333 Inter. Word Processing (Wang)	
OFAD 334 Adv. Word Processing (Wang)	3
OFAD 400 Business English	15
OFAD 412 Filing & Records Management	
BUS. 103 Intro. to Bus. Computer Systems	
BUS. 420 Intro. to Apple Computer	
or	
BUS. 430 Intro to IBM/PC	1.5
BUS. 432 Microcomputer Word Processing	
WordStar*	
or	
BUS. 434 Microcomputer Spreadsheet	-
LOTUS 1-2-3**	27 20
Total	. 21-29
*MicroPro**	
Lotus Dev. Corp	

A.S. DEGREE - WORD PROCESSING

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

RECOMMENDED ELECTIVES

BUS. 415, BUS. 421, OFAD 120, OFAD 145, OFAD 401, OFAD 450, MGMT 225, MGMT 235.

INTERIOR DESIGN

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

CAREER OPPORTUNITIES

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

RECOMMENDED TRANSFER PROGRAM PREPARATION FOR MAJOR Units	ELECTIVES Units ART 214 Color
ART 101 History of Art I	ART 321 Watercolor 3 BUS. 430 Intro to IBM/PC 1.5 INTD 180 Contract Design 3 INTD 270 Fundamentals of Kitchen Design 3 INTD 274 Principles of Construction/Residential 3
ART 305 Three-Dimensional Design 3 ART 204 Drawing I 3 ART 214 Color 3 INTD 245 Internship 3	INTD 278 Marketing & Salesmanship 3 INTD 320 Oriental Art/China & Korea 1 INTD 321 Oriental Art/Japan & S.E. Asia 1 INTD 322 Oriental Art/Ind., Jap., Phil 1
A.S. DEGREE PROGRAM 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.	CERTIFICATE PROGRAM/WITH EARNED A.S. DEGREE IN INTERIOR DESIGN/RESIDENTIAL For students who have object to an A.S. Degree in Interior
CORE CURRICULUM	Design at Cañada College, this certificate may be applied toward an associate membership in A.S.I.D.
(recommended sequence) Units	CORE REQUIREMENTS
INTD 115 Your Home & Environment	(recommended sequence) INTD 245 Internship in Home Furnishing INTD 320 Oriental Art/China & Korea INTD 321 Oriental Art/Japan & S.E. Asia
ART 301 Design or ART 204 Drawing	INTD 322 Oriental Art/Ind., Jap., Phil 1 INTD 260 Fundamentals of Lighting 2 INTD 270 Fundamentals of Kitchen Design 3 ART 103 History of Modern Art 3
INTD 160 Decorating Techniques	ART 110 Art Appreciation/Intro. to Art
INTD 450 Home Furn. Consumer (Fall only) INTD 147 Space Planning ART 320 Systems of Perspective 3 INTD 146 Graphics for Interiors 3 INTD 170 Fabrics for Interiors	INTD 350 Commercial Design3INTD 250 Professional Practices3INTD 156 Portfolio/Projects3INTD 278 Marketing & Salesmanship3Electives6
INTD 170 Fabrics for Interiors (Spring only) 3 INTD 250 Professional Practices 3 INTD 245 Internship in Home Furnishings 1	Total 30 ELECTIVES Units ART 214 Color 3
Total 40 General Educ. Requirements 18 PE 2	ART 321 Watercolor
Total	INTD 274 Principles of Construction
CERTIFICATE PROGRAM/WITH EARNED A.S. DEGREE	INTD 411 Home Decorating
INTERIOR DESIGN/COMMERCIAL DESIGN For students who have completed a B.A. or B.S. Degree in Interior Design at Cañada College, this certificate may be applied toward an associate membership in A.S.I.D.	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 asso-
CORE REQUIREMENTS	ciate membership in A.S.I.D.
(recommended sequence) INTD 260 Fundamentals of Lighting (Spring only)	CORE REQUIREMENTS (recommended sequence) INTD 115 Your Home & Environment 3 INTD 148 Color for Interiors 3
ART 110 Art Appreciation/Intro. to Art	ART 201 Form & Composition or ART 204 Drawing
1st Semester) 3 INTD 271 Fundamentals of Bath Design 2 INTD 350 Commercial Design 3 INTD 351 Advanced Commercial Design 3 INTD 355 Commercial Construction 3 INTD 360 Computers for Commercial Design 3 Electives 7 Total 30	or ART 301 Design

INTD 278 Marketing & Salesmanship 3 INTD 146 Graphics for Interiors 3 INTD 260 Fundamentals of Lighting (Spring only) 2 INTD 320 Oriental Art/China & Korea 1 INTD 321 Oriental Art/Japan & S.E. Asia 1 INTD 322 Oriental Art/India, Japan, Phillippines 1 ART 103 History of Modern Art 3 or	INTD 146 Graphics for Interiors 3 INTD 274 Principles of 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 (Fall only) 3 INTD 271 Fundamentals of Bath Design 2 Total 32
ART 110 Art Appreciation/Intro. to Art	MANAGEMENT The Management Program is designed to provide students with the basic underlying principles of management. Cañada College offers an A.S. Degree in management, and two management certificates. The courses are primarily for those students who plan careers in management or who are already in supervisory positions and wish to increase their formalized learning in this subject area. Courses cover both business and public sector organizations. Courses specifically required for the student's major must be evaluated by a letter grade, not by the credit (CR) grade.
COMMERCIAL DESIGN For those students who have completed a B.A. or B.S. Degree in other disciplines. This certificate may qualify the student for Associate Membership in A.S.I.D. CORE REQUIREMENTS	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.
(recommended sequence) INTD 115 Your Home & Environment 3 INTD 148 Color for Interiors 3 ART 201 Form & Composition or ART 204 Drawing or ART 301 Design 3 INTD 125 Detailing Interiors 3 ARCH 110 Basic Architectural Drawing 3	A.S. DEGREE AND CERTIFICATE PROGRAMS The certificate in management can be earned in two specific areas: General Management and Public Administration. The certificate will be awarded by Cañada College upon completion of the required courses, plus additional electives totaling a minimum of 24 units. The 24 units earned in the certificate program will fulfill the major requirements for an A.S. Degree. A.S. DEGREE
INTD 150 History of Interiors INTD 450 Home Furn. Consumer (Fall only) INTD 147 Space Planning 3 ART 320 Systems of Perspective 3 INTD 170 Fabrics for Interiors 3 INTD 146 Graphics for Interiors 3 INTD 260 Fundamentals of Lighting (Spring only) 2 ART 103 History of Modern Art	CORE CURRICULUM MGMT 100 Management Theory 3 MGMT 215 Management of Human Resources 3 MGMT 220 Organizaitonal Behavior 3 MGMT 235 Techniques of Supervision 3 General Educ. Requirements 18 Electives (15 must be in the Mgmt. or business field) 30 Total 60
ART 110 Art Appreciation/Intro. to Art 3 INTD 250 Professional Practices 3 INTD 156 Portfolio/Projects (Spring only) 3 INTD 245 Internship (any time after 1st Semester 2 INTD 271 Fundamentals of Bath Design 2 INTD 350 Commercial Design 3 INTD 351 Advanced Commercial Design 3 INTD 355 Commercial Construction 3 INTD 360 Computers for Commercial Design 3 Total 60 CERTIFICATE PROGRAM IN INTERIOR DESIGN/	CERTIFICATE PROGRAMS GENERAL MANAGEMENT CERTIFICATE CORE REQUIREMENTS MGMT 100 Management Theory MGMT 215 Management of Human Resources MGMT 220 Organizational Behavior MGMT 235 Techniques of Supervision Plus, select 12 units from the following: ACTG 121 Financial Accounting ACTG 310 Accounting Accounting ACTG 310 Accounting for Management
KITCHEN & BATH PLANNING For those students who wish professional preparation to enter the special field of kitchen and bath design and remodeling. CORE REQUIREMENTS (recommended sequence) Units INTD 115 Your Home & Environment 3 INTD 270 Fundamentals of Kitchen Design 3 ARCH 110 Basic Architect. Drawing 3 INTD 148 Color for Interiors 3	BUS. 101 Human Relations BUS. 103 Intro. to Business Computer Systems BUS. 415 Computer Keyboarding BUS. 430 Intro. to IBM/PC BUS. 434 Microcomputer Spreadsheet LOTUS 1-2-3* MGMT 105 Financial Management MGMT 110 Report Writing MGMT 120 Management Communications MGMT 130 Labor Relations for Management

MGMT 137 Performance Measurement Techniques MGMT 225 Office Management MGMT 240 Organizational Leadership Total *Lotus Dev. Corp™	24
PUBLIC ADMINISTRATION CERTIFICATE CORE REQUIREMENTS MGMT 100 Management Theory MGMT 215 Management of Human Resources MGMT 220 Organizational Behavior MGMT 235 Techniques of Supervision Additional required courses: MGMT 281 Public Administration Management MGMT 282 Public Finance Plus, select 6 units from the following: ACTG 121 Financial Accounting ACTG 131 Managerial Accounting ACTG 310 Accounting for Management BUS. 103 Intro. to Business Computer Systems BUS. 415 Computer Keyboarding BUS. 430 Intro. to IBM/PC MGMT 110 Report Writing MGMT 120 Management Communications MGMT 130 Labor Relations for Management MGMT 136 Budgeting and Planning MGMT 137 Performance Measurement Techniques MGMT 240 Organizational Leadership PLSC 310 California State & Local Government Total	3 3 6

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 sa	tisfy the
preparations required for a major leading to a B.S. deg	
CORE REQUIREMENTS	Units
CTEC 400 Technical Calculations & Study Skills	3.5
CTEC 420 Direct & Alternating Current	
Fundamentals	5.5
CTEC 440 Semiconductor Devices & Circuits	2.5
CTEC 460 Digital Devices & Circuits	
CTEC 500 Microprocessor Principles	
CTEC 520 Microprocessor Interfacing	
Applications	4
General Education Requirements	
Electives	17
Total	

CERTIFICATE PROGRAM MICROCOMPUTER TECHNICIAN

	Jnits
CTEC 400 Technical Calculations & Study Skills	. 3.5
CTEC 420 Direct & Alternating Current	
Fundamentals	. 5.5
CTEC 440 Semiconductor Devices & Circuits	. 2.5
CTEC 460 Digital Devices & Circuits	. 5.5
CTEC 500 Microprocessor Principles	4
CTEC 520 Microprocessor Interfacing Applications	4
Total	. 25

OFFICE ADMINISTRATION

See INTEGRATED INFORMATION PROCESSING

PARALEGAL

The Paralegal Program at Cañada offers a certificate only. It 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 must be evaluated by a letter grade, not by the credit (CR) grade.

CAREER OPPORTUNITIES

The paralegal profession offers job opportunities in larger law firms and corporations, paralegals often do basic legal research, client interviewing and, in general, provide assistance to attorneys.

CERTIFICATE PROGRAM

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

	U	Jn	ts
BUS. 250 Legal Research & Bibliography			3
BUS. 251 Torts & Contracts			
BUS. 252 Trial Preparation & Legal Ethics		4. 1	3
BUS. 253 Probate Administration			3
BUS 254 Family Law		C.V	3
BUS. 255 Corporations & Business Entities			
BUS. 256 Real Estate & Landlord-Tenant			
BUS 257 Bankruptcy & Debt Collection			
BUS. 259 Intro. to Legal Systems			3
Total			
IO(a)	* 7	+ 1	See f.

PHILOSOPHY

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

CAREER OPPORTUNITIES

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

TRANSFER PROGRAM

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

RECOMMENDED TRANSFER PROGRAM	Units
PHIL 100 Introduction to Philosophy HIST 100 History of Western Civilization	2
HIST 101 History of Western Civilization PHIL 190 Contemporary Philosophy PHIL 200 Introduction to Philosophy	2
PHIL 200 Introduction to Logic	3
PHIL 103 Critical Thinking	2
PHIL 240 Introduction to Ethics ANTH 110 Cultural Anthropology	2
PSYC 100 General Psychology	3

ASSOCIATE IN ARTS DEGREE PROGRAM

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

OTHER COURSES IN PHILOSOPHY PHIL 160 History of Philosophy	Units
Ancient & Medieval	3
PHIL 175 History of Philosophy 16th to 18th Century	
FRIL 300 Introduction to World Religions	3
THE STO FINOSOPHY OF RELIGION	3
PHIL 320 Asian Philosophy PHIL 650 Seminar in Philosophy	3
PHIL 680 Selected Topics in Philosophy	3

POLITICAL SCIENCE

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

CAREER OPPORTUNITIES

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

TRANSFER PROGRAM

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

RECOMMENDED TRANSFER PROGRAM	Units
PLSC 110 Contemp. Foreign Governments	2
PLSC 150 Intro. to Political Theory	
PLSC 210 American Politics	3
DI SC 210 Colleggia Chata & Land O	3
PLSC 310 California State & Local Government	3
ECON 100 Principles of Macro Economics	3
ECON 102 Principles of Micro Economics	3
HIST 201 United States History to 1865	3
HIST 202 United States History Since 1865	1.10
HIST 100 History of Western Of The 1805	3
HIST 100 History of Western Civilization	3
mist full History of Western Civilization	3
SOSC 122 Social Sciences Research Methods	3

ASSOCIATE IN ARTS DEGREE PROGRAM

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

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

PSYCHOLOGY

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

CAREER OPPORTUNITIES

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

TRANSFER PROGRAM

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

RECOMMENDED TRANSFER PROGRAM	U	Ini	ts
PSYC 100 General Psychology PSYC 105 Experimental Psychology PSYC 300 Social Psychology			3
ADJET THE CHILICAL ADDRESS OF A			2
*BIOL 110 Principles of Biology			2
or *BIOL 130 Human Biology *PSIO 260 Human Physiology *CHEM 210 General Chemistry			4 5
*Depending on concentration in major and choice of fou college.	ir-	ye	ar
ACCOCIATE IN ARTO DECEMENT			

ASSOCIATE IN ARTS DEGREE PROGRAM

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

OTHER COURSES IN PSYCHOLOGY	Units
PSYC 108 Psychology in Practice PSYC 110 Courtship, Marriage & the Family	3
FSTC 201 Child Development	3
PSYC 202 Adolescent Behavior PSYC 210 Early Childhood Education Principles	1 3
PSTC 211 Early Childhood Education Curriculum	1_3
PSYC 212 Child, Family & Community	3
PSYC 221 The Special Child PSYC 223 Infant Behavior	3
PSYC 2/8 The Psychological Experience of	
La Raza in the Ú.S. PSYC 300 Social Psychology	3
PSYC 340 Psychology of Human Sexuality	1.5-3

PSYC 370	Introduction to Counseling
PSYC 39	Parenting 3
PSYC 670	Cooperative Education 1-4
PSYC 680	Selected topics in Psychology

SECRETARIAL/CLERICAL

See INTEGRATED INFORMATION PROCESSING

SOCIAL SCIENCE

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

SOCIOLOGY

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

CAREER OPPORTUNITIES

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

TRANSFER PROGRAM

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

RECOMMENDED TRANSFER PROGRAM	Units
SOCI 100 Introduction to Sociology	3
SOCI 105 Social Problems	3
SOCI 141 Minorities in American Society	2
SOSC 122 Social Science Research Methods	3
SOSC 200 Intro. to Communication Skills	3
ANTH 110 Cultural Anthropology	3
ECON 100 Principles of Macro Economics	3
ECON 102 Principles of Micro Economics	3
PSYC 100 General Psychology	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. Courses in natural science, social science, humanities, learning skills, and ethnic studies areas (minimum of one in each) must be taken. In addition, students will take 18-24 units in the area of concentration, with the balance of the 60 units in elective courses.

OTHER COURSES IN SOCIOLOGY

SOCI 100 Introduction to Sociology	
System in American Society	
SOCI 120 Intro. to Gerontology	
SOCI 126 Juvenile Delinquency 3	
SOCI 350 Intro. to Corrections 3	
SOCI 360 Intro to Comections	
SOCI 360 Intro. to Criminology	

STATISTICS

For descriptions of courses in statistics, see Mathematics 200

TRAVEL INDUSTRY CAREERS/TOURISM

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

CAREER OPPORTUNITIES

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

CORE CURRICULUM REQUIRED	Units
TOUR 100 Travel Industry Reference Materials	3
TOUR 721 Domestic Airline Tariff & Ticketing	3
TOUR /15 F.I.I. Planning & Costing	3
TOUR 722 Adv. Domestic Airline Tariff & Ticketing	3
TOUR 725 Internat'l Airline Tariff & Ticketing	3
TOUR 710 Tourism Support Staff Procedures	3
*TOUR 711, Airline Computer Training, may be taken conc ly with this course. Both should be taken immediately prior student going to work.	urrent-
gening to trott,	

student going to work.	
RETAIL TRAVEL CERTIFICATE Core Curriculum (as stated above)	Units 18
TOUR 101 Selling Travel TOUR 711 Airline Computer Training (CRT)	. 3
following list:	
GEOG 110 Cultural Geography (3)	
GEOG 150 World Regional Geography (recommended for Tourism majors) (3)	
HIST 100 History of Western Civilization (recommended for Tourism majors) (3)	
HIST 422 Modern Latin America (3) ANTH 105 Peoples & Cultures of the World (3)	
ANTH 370 Pre-Columbian Peoples & Cultures of Mexico &	

ANTH 370 Pre-Columbian Peoples & Cultures of Mexico & Central America (3)
TOUR 103 Travel Destinations/Europe (3)
TOUR 104 Travel Destinations/World (3)
TOUR 200 Intro. to Hospitality & Tourism (3)
Total

WHOLESALE TRAVEL CERTIFICATE	Units
Core Curriculum (as stated above)	18
TOUR 711 Airline Computer Training (CRT)	
TOUR 731 Wholesale Tour Operations	
TOUR 732 Adv. Wholesale Tour Operations	3
Three units of electives selected from list	
under Retail Certificate	3
Total	

ASSOCIATE IN ARTS DEGREE/ TRANSFER PROGRAM TOURISM

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

SPECIAL TRAINING CERTIFICATES

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

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

ADDITIONAL INFORMATION

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

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

HUMANITIES DIVISION

DEPARTMENTS

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

ART

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

CAREER OPPORTUNITIES

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

TRANSFER PROGRAM	
	nits
ART 101 History of Art I	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	
ART 205 Drawing II	
ART 221 Painting I	
ART 231 Water Color I	3
ART 234 Printmaking I	3
ART 405 Sculpture I	. 3
ART 405 Sculpture 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. In order to be eligible for the certificate, an applicant must satisfy the requirements of both I and II below.

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

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

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

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

units of residence at Cañada College.

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

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

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

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

DRAMA

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

The 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

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 Un	its
DRAM 140 Introduction to Theatre	3
DRAM 142 Early Drama	3
DRAM 143 Modern Drama	2
DRAM 200 Fundamentals of Acting	3
DRAM 201 Principles of Acting I	3
DRAM 202 Principles of Acting II	2
DRAM 203 Principles of Acting III	3
DRAM 208 Acting Practicum I	3
DRAM 208 Acting Practicum I	-2
DRAM 209 Acting Practicum II	-2
DRAM 210 Acting Practicum III	-2
DRAM 211 Acting Practicum IV	-2
DRAM 248 Make-up	1

DRAM	300	Play Production	0.5 - 2
DRAM	305	Technical Production	0.5 - 2
DRAM	338	Costume Workshop	1-2

ASSOCIATE IN ARTS DEGREE PROGRAM

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

ENGLISH

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

CAREER OPPORTUNITIES

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

TRANSFER PROGRAM	Units
SUGGESTED CURRICULA	Ollica
ENGL 100 Reading and Composition	3
ENGL 110 Composition and Literature	3
LIT. 151 Shakespeare I	3
LIT. 152 Shakespeare II	
LIT. 231 Survey of English Literature I	3
LIT. 232 Survey of English Literature II	3
LIT. 233 Survey of English Literature III	
Two additional literature courses	6
Foreign Language	
HIST 100 History of Western Civilization I	
HIST 101 History of Western Civilization II	
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.

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	
PSYC 100 General Psychology	
SOCI 100 Introduction to Sociology	
SPCH 100 Fundamentals of Speech	3

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

TRANSFER BROODAN

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.

SUGGESTED CURRICULA Unit	
MUS. 101 Musicianship I	2
MUS. 102 Musicianship II	
MUS. 131 Harmony I	
MUS. 132 Harmony II	
MUS. 135 Comprehensive	
Musicianship	2
MUS. 202 Music Appreciation	
MUS. 496 Musical Recitals	2
Applied Music classes	4
Performance classes	

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

ASSOCIATE IN ARTS DEGREE PROGRAM

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

SPEECH

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

CAREER OPPORTUNITIES

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

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

ANNOUNCEMENT OF COURSES

All courses and curricula listed in this catalog will not necessarily be offered during 1985-1986. Courses are offered at the discretion of the College in accord with its determination of educational needs and available resources. Courses may be added, cancelled, or combined when circumstances warrant

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

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

The following courses have been approved for all instructional departments:

670 COOPERATIVE EDUCATION - WORK EXPERIENCE

Units (Grade Option)	1-4
Class Hours	1 unit of credit for each 5 hours per week
	with a maximum of 4 units
Prerequisites:	Enrollment in 7 units,
	including Co-op Education

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

680 SELECTED TOPICS.

Units (Grade Option) 1–3
Class Hours
Prerequisites:
Description: Selected topics not covered by regular catalog offerings. Course content and unit credit to be determined by the
appropriate division in relation to community/student need and available staff. These innovative, experimental courses may be
offered as seminar, lecture, or lecture/lab classes. See semester schedule for particular offerings. May be repeated for credit.

690 RESEARCH PROJECTS.

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

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

695 INDEPENDENT STUDY.

Units
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. May be repeated for credit.

880 OTHER SELECTED TOPICS

Units (Grade	Option) .			 		1-3
Class Hours				 	Bv	Arrangement
Prerequisites:	Colooted	1	122	 20000	SPRING	None

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

895 OTHER INDEPENDENT STUDY.

Units
Class Hours 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.

Units (Grade Option)	3-4
Class Hours	3-4 lecture hours/week
Prerequisites:	None
Description: Introduction to accounting of a double-entry bookkeeping system students who wish to have a basic und procedures.	procedures and the use. Course is designed for

ACTG 121 FINANCIAL ACCOUNTING.

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

ACTG 131 MANAGERIAL ACCOUNTING

The second secon
Units5
Class Hours 5 lecture hours/week
Prerequisites: ACTG 121 or equivalent
with a grade of C or better

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

ACTG 171 FEDERAL INCOME TAX PROCEDURES I

Units (Grade	Option)			3
Class Hours	***********		3 lecture h	nours/week
Prerequisites:				None
Description:	Fundamentals o	f income	taxation. Stu	dy of the
internal reven	ue code, income	e tax regula	ations, and o	other refer-
ence material	used in tax issu	es pertainir	na to individu	uals

ACTG 180 PAYROLL AND BUSINESS TAXES.

Units
Class Hours
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 penhoard and computerized systems

ACTG 190 COMPUTERIZED ACCOUNTING

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

ACTG 212 MANUFACTURING ACCOUNTING.
Units (Grade Option) 3 Class Hours 3 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
ACTG 310 ACCOUNTING FOR MANAGEMENT.
Units (Grade Option) 3 Class Hours 3 lecture hours/week
Prerequisites: None
Description: An overview of both financial and managerial accounting designed to give the management student a basic
understanding of accounting systems and how they are utilized
by management. This course is not recommended for accounting majors.
A detailed description of the following courses may be found
under Announcement of Courses, page 58: 670 Cooperative
Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study, 880 Other Selected Topics; 895 Other
Independent Study
ADMINISTRATION OF
JUSTICE
ADMJ 101 SURVEY OF THE CRIMINAL JUSTICE SYSTEM IN AMERICAN SOCIETY. (Also SOCI.101)
Units (Grade Option) 3 Class Hours 3 lecture hours/week
Prerequisites: None
Prerequisites: None Description: History and philosophy of criminal justice in America, identification of the justice system's component parts and their
interrelationships, and the effect of social change on the criminal
justice system. An in-depth study of the functions and responsibilities of each sub-system of criminal justice (police, courts,
corrections), and a study of the legal standards, social responsi-
bilities and ethics of each sub-system which guide the process of serving justice.
ADMJ 104 CONCEPTS OF CRIMINAL LAW. (Also SOCI 104)
Units (Grade Option)
Prerequisites None
Prerequisites: None Description: Historical development, philosophy of law and consti-
tutional provisions; definitions, classification of crime, and their application to the system of administration of justice; legal
research, study of case law, methodology, and concepts of law
as a social force.
ADMJ 126 JUVENILE DELINQUENCY. (Also SOCI 126) Units (Grade Option) 3 Class Hours 3 lecture hours/week
Class Hours 3 lecture hours/week
Prerequisites: None Description: Survey course examining various aspects of juvenile
crime. Review and analysis of various explanations of delinquent behavior; survey and critique of the juvenile justice system;
examination of selected agencies such as police, probation
departments, juvenile courts, juvenile halls, state institutions, and private youth – service agencies.
ADMJ 350 INTRODUCTION TO CORRECTIONS.
(Also SOCI 350)
Units (Grade Option) 3 Class Hours 3 lecture hours/week
Prerequisites: None Description: Philosophy and history of correctional services.
Survey of correctional institutions, probation concepts, parole
operations, and community corrections. Correctional employee
responsibilities, rehabilitation goals as they affect individual and

inmate groups in both confined and field settings. Societal response to the structure of corrections, the effectiveness of corrections, and its impact on the society at large.

ADMJ 360 INTRODUCTION TO CRIMINOLOGY. (Also SOCI 360) Units (Grade Option)

Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites: None
Description: The study of deviant behavior as it relates to the definition of crime; crime statistics; theories of crime causation;

definition of crime; crime statistics; theories of crime causation; crime typologies. Introduction to the impact of crime, limits of the criminal law, juvenile delinquency, and society's reactions to criminal behavior.

ADMJ 370 INTRODUCTION TO COUNSELING. (Also PSYC 370)

Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites: None
Description: Introduction to various theories of counseling and

Description: Introduction to various theories of counseling and general principles of interviewing. Opportunity for the development of skills in establishing rapport, setting counseling goals, recognizing strengths in individuals, recognizing self-limitations, making referrals, and terminating counseling relationships.

A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study

ANATOMY

ANAT 130 BODY STRUCTURE AND FUNCTION.

Units (Grade Option)
Class Hours
3 lecture hours/week
Prerequisites:
None
Description: Normal body structure and function of the following
systems: skeletal, muscular, integumentary, circulatory, digestive,
endocrine, respiratory, nervous (the senses), and reproductive.

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 preveterinarian students. Appropriate refresher for Allied Health personnel.

A detailed description of the following courses may be found under Announcement of Courses, page 58: 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)

Class Hours

Prerequisites:

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. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: A study of human behavior expressed in different cultures throughout the world. Emphasis on methods and theories of anthropology. Religion, economics, personality, kinship, and family of different cultures.	A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study. ART
ANTH 125 PHYSICAL ANTHROPOLOGY. Units 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.	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) 3 Class Hours 3 lecture hours/week
ANTH 340 CALIFORNIA INDIANS. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Introduction to origins and pre-history of California	Prerequisites: Description: Survey of art from the late Middle Ages through the 18th century. Emphasis placed upon Renaissance values as they relate to architecture, sculpture, and painting.
Indian; archaeology, pre-history, ethnography and history of selected cultures. Emphasis on San Francisco Bay Region, particularly San Mateo County. Historical and contemporary problems considered in light of European influence on California Indian. (Fulfills Ethnic Studies requirement.)	ART 103 HISTORY OF ART III. Units (Grade Option)
ANTH 360 INDIANS OF NORTH AMERICA. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Study of life-ways of North American Indian cultures in different geographical areas of North America. Stress on cross cultural comparisons of cultural and social phenomena including religious and world view systems, subsistence systems and political systems. (Fulfills Ethnic Studies requirement.)	on contemporary art and architecture. ART 110 INTRODUCTION TO ART. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites None Description: A lecture course for the general student and Art major in the principles and fundamentals of art and art criticism. Study of terminology and criteria of value. Illustrated with examples of modern and historic drawing, painting, sculpture
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 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	and design. ART 120 DEVELOPMENT OF MEXICAN AND CHICANO ART. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: A survey course of Chicano Art intended to create awareness of Chicano expression. Origins, history and contemporary movements will be examined as well as criticism of the art itself. This course satisfies the Ethnic Studies requirement. ART 190 FINE ARTS FOR CHILDREN.
influences still present. (Fulfills Ethnic Studies requirement.) A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education, 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study. ARCHITECTURE	(Also MUS. 190) Units (Grade Option) Class Hours Prerequisites: 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
ARCH 110 BASIC ARCHITECTURAL 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 codes, sketching and instrument drawing.	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.

sketching and instrument drawing

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) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Survey of art from the late Middle Ages through the 18th century. Emphasis placed upon Renaissance values as they relate to architecture, sculpture, and painting.
ART 103 HISTORY OF ART III. Units (Grade Option)
Class Hours 3 lecture hours/week Prerequisites: None 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 110 INTRODUCTION TO ART. Units (Grade Option)
Class Hours 3 lecture hours/week Prerequisites: None Description: A lecture course for the general student and Art major in the principles and fundamentals of art and art criticism. Study of terminology and criteria of value. Illustrated with examples of modern and historic drawing, painting, sculpture and design.
ART 120 DEVELOPMENT OF MEXICAN AND CHICANO ART.
Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: A survey course of Chicano Art intended to create awareness of Chicano expression. Origins, history and contemporary movements will be examined as well as criticism of the art itself. This course satisfies the Ethnic Studies requirement.
ART 190 FINE ARTS FOR CHILDREN. (Also MUS. 190)
Units (Grade Option) Class Hours Prerequisites: 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.

shape, color (value only), and space organization. Course will include both drawing and painting projects.

ART 202 FORM AND COMPOSITION II. Units (Grade Option) 3 Class Hours 3 lecture/3 lab hours/week 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.	ART 232 WATER COLOR II. Units (Grade Option) 3 Class Hours 3 lecture hours/week 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.
Units (Grade Option) Class Hours Prerequisites: 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 Contecrayon.	ART 234 PRINTMAKING I. Units (Grade Option) 3 Class Hours 3 lecture/3 lab hours/week Prerequisites: ART 204, 305 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
ART 205 DRAWING II. Units (Grade Option) 3 Class Hours 3 lecture hours/week 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.	Class Hours 3 lecture/3 lab hours/week 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 241 SILKSCREEN I.
ART 207 LIFE DRAWING. Units (Grade Option)	Units (Grade Option) Class Hours Prerequisites: Description: Introduction to stencil process of printing through a silk screen to produce graphic art on paper and fabric May be repeated three times for credit. ART 301 DESIGN. Units Class Hours 3 lecture hours/week
ART 214 COLOR. Units (Grade Option)	Prerequisites: Description: Fundamentals of non-objective 2-dimensional organization through the use of concept (idea) as the point of departure. The separate and combined use of line, shape, color, texture, and space organization will be exploited in the course projects. ART 303 COLOR 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 expres-	Units (Grade Option) Class Hours Prerequisites: Description: For the student who wishes to deal with the basic concepts of color and/or design beyond the primary level in a series of personalized projects. May replace ART 222 for students emphasizing applied design. May be repeated three times for credit.
ART 222 PAINTING II. Units (Grade Option) Class Hours Prerequisites: 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 305 THREE DIMENSIONAL SCULPTURAL DESIGN. Units (Grade Option) 3. Class Hours 3 lecture hours/week Prerequisites: None Description: Introductory course in three-dimensional design and materials. Principles of design introduced through a series of projects related to spatial elements; practical skills in the use of hand, power, and welding tools. Project materials include: clay, wax, wood, plastics, metal, and cement. The course should be of special interest to students of engineering, architecture, interior design, landscape design, product design, and the various related crafts.
ART 231 WATER COLOR I. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: ART 201, ART 204 Description: Study of transparent and opaque watercolor technique applied to landscape, figure, and still life. Both basic and experimental techniques will be emphasized. Field trips may be required. May be repeated three times for credit.	ART 311 LETTERING AND LAYOUT I. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites None Description: Development of proficiency in freehand and mechanical lettering with pen and brush. Traditional and imaginative interpretations of lettering styles.

ART 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. Units 3	Units Class Hours Prerequisites: Description: Through viewing slides and taking trips to local galleries and museums, a survey of photography from its conception to the present day will be taken. As a learning tool, master photographs will be analyzed for their excellence in technique and composition. Some discussion of students' photographic work and equipment may be included.
Class Hours 3 lecture hours/week Prerequisites: None Description: Development of skills in freehand perspective applied to Fine Art and Commercial Art areas. Problems will involve one and two point perspective, and reverse and creative perspective. Not offered as a substitute for mechanical or architectural drafting.	A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
	ASTRONOMY
Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: ART 201 Description: A course in the rendering of literal and commercial concepts, providing the student with the basic skills to illustrate or decorate books, articles, advertisements, etc. ART 324 LANDSCAPE. Units (Grade Option) 3	ASTR 100 INTRODUCTION TO ASTRONOMY. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Survey of modern astronomy, including the study of the planets, stars and galaxies. Emphasis on the place of man in the universe and the possibilities of life on other worlds. Quasars, pulsars, black holes, the space program, and the beginning and the end of the universe will also be discussed.
Class Hours	ASTR 110 THEORIES OF THE UNIVERSE. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: A historical survey of man's thinking about the largescale questions concerning the universe, from ancient myth
ART 326 PORTRAITURE. Units (Grade Option)	to modern theories of an exploding universe. Topics: the creation of the cosmos, the meaning of time and the end of the universe. The continual interaction of science with literature, philosophy, etc., will be explored through readings, slides, films. ASTR 120 PLANETS AND EXTRA-TERRESTRIAL LIFE. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None
ART 405, 406 SCULPTURE I, II. Units (Grade Option) 3 each Class Hours 3 lecture/3 lab hours/week Prerequisites: None Description: Basic course in figurative and non-objective structural forms using plastic, fiberglass, metal and other media. Each may be repeated three times for credit.	Description: A scientific study of the possibility that life has formed elsewhere in the universe. Topics: A survey of the planets; the search for other solar systems; the estimate of the number of intelligent civilizations in our galaxy; methods of space travel and interstellar communications; past, present and planned experiments to search for extra-terrestrial life. No mathematics is required.
ART 411 CERAMICS I. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites None Description: Designed to give the student the techniques of working on the potter's wheel, as well as hand building, pinch	A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
and coil and slab methods, including work in ceramic sculpture. Course will include techniques of glazing and decorative processes. \$10 lab fee. May be repeated once for credit.	BIOLOGY BIOL 100 INTRODUCTION TO THE LIFE SCIENCES.
ART 424 FIBER ARTS. Units (Grade Option)	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.

ART 800 SURVEY OF PHOTOGRAPHY.

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BIOL 110 PRINCIPLES OF BIOLOGY. Units 4	BOTANY
Class Hours 3 lecture, 3 lab hours/week Prerequisites: None Description: Biological principles including cellular organization, heredity, molecular components, evolution, reproduction, differentiation, and ecology.	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
Units	the student to acquire skills in collection and identification of the flora of any region.
Prerequisites: None Description: Study of common plants and animals of the Bay Area. Emphasis on identification of common organisms and study of their natural history and distribution in this area.	BOTY 145 PLANTS AND MAN. Units
BIOL 130 HUMAN BIOLOGY. Units	function. BOTY 145 PLANTS AND MAN LABORATORY.
Class Hours	Units Class Hours Prerequisites: Concurrent enrollment in BOTY 145
as well as topics of heredity and human development. BIOL 135 HUMAN SEXUALITY: BIOLOGICAL ASPECTS.	Description: Laboratory experiences in topics included in Botany 145. Field trips may be required.
Units	BOTY 220 GENERAL BOTANY.
Prerequisites: Description: Lecture-discussion of the physical aspects of sexuality. Topics: anatomy and physiology of the male and female, "The Pill" and other methods of contraception, pregnancy	Units 5 Class Hours 3 lecture, 6 lab hours/week Prerequisites: High school Biology with a grade of B or better or equivalent.
and fetal development, and the biological aspects of sexual development and behavior.	Description: Principles of Biology as illustrated by plants with emphasis on structure, physiology and reproduction in green plants. Field trips may be required.
BIOL 160 HUMAN GENETICS. Units	A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
chemical genetics, evolution and recombinant DNA. BIOL 310 NUTRITION. (Also H.EC 310)	BUSINESS
Units (Grade Option) Class Hours Prerequisites: 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	BUS. 100 SURVEY OF BUSINESS. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Introductory survey of the nature, organization, and structure of the American enterprise system Major activities examined include management, marketing, and financing of business.
references and consumer information. BIOL 312 NUTRITION IN HEALTH AND DISEASE. (Also H.EC 312) Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: BIOL 310 or H.EC 310 Description: Discussions of metabolic disorders of human body	BUS. 101 HUMAN RELATIONS IN BUSINESS. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: The basic psychological principles operating in family, social and business relationships. Topics include: perception, self-image, self-management, prejudice, creativity and resist-
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.	ance to change. Recommended for all business majors. BUS. 103 INTRODUCTION TO BUSINESS COMPUTER SYSTEMS. Units
A detailed description of the following courses may be found under Announcement of Courses , page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.	Prerequisites: Description: An introductory course including a discussion of all components of a computer-based system. An overview of hardware, software, flow-charting and programming (using BASIC) concepts is introduced. Micro-computer applications to business, including spreadsheets, word processing, data base manage-

BUS. 235 TECHNIQUES OF SUPERVISION. (ALSO MGMT 235) Units (Grade Option)
Class Hours 3 lecture hours/week
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.
Units (Grade Option)
Bus. 251 TORTS AND CONTRACTS. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: BUS. 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.
BUS. 252 TRIAL PREPARATION AND STUDY OF LEGAL ETHICS. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: Bus. 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 investi- gation; pretrial considerations, preserving facts and preparation for trial; mock trial; post-trial motions and appeal; introduction to the ethical standards of the legal profession.
BUS. 253 PROBATE ADMINISTRATION. Units (Grade Option)
Prerequisites: 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
Prerequisites: Bus. 259 or concurrent.
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BUS. 255 CORPORATIONS AND BUSINESS ENTITIES. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: Bus 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.	BUS. 430 INTRODUCTION TO IBM/PC. Units (Grade Option)
BUS. 256 REAL ESTATE AND LANDLORD—TENANT. Units (Grade Option)	BUS. 432 MICROCOMPUTER WORD PROCESSING: WORDSTAR* Units (Grade Option) 3 Class Hours 3 lecture/2 lab hours/week Prerequisites: Keyboard 40 wpm. Description: Introduction to word processing on a microcomputer utilizing WordStar* on IBM/PC. Includes: loading, creating files, inputting, editing, filing, formatting, and printing.
BUS. 257 BANKRUPTCY AND DEBT COLLECTION. Units (Grade Option)	*Micropro** BUS. 434 MICROCOMPUTER SPREADSHEET: LOTUS 1-2-3* Units (Grade Option)
BUS. 259 INTRODUCTION TO LEGAL SYSTEM. Units (Grade Option)	course. *Lotus Dev. Corp. ™ BUS. 436 DATA BASE MANAGEMENT dBASE II Units (Grade Option)
BUS. 415 COMPUTER KEYBOARDING. Units (Grade Option)	on the IBM/PC to develop, and report from, a data base. The student will design the data base, establish the data entry screens and produce complex business reports from the data base. Strongly recommended enrollment in BUS. 415 preceeding or concurrent with this course.
typewriter with drill work on the 10-key calculator. Further reinforcement and drill work on the IBM PCs using appropriate software materials. Use of special function keys and computer printer will be introduced. Strongly recommended as taken preceding to or concurrent with computer applications courses.	A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
BUS. 420 INTRODUCTION TO APPLE COMPUTER. Units (Grade Option)	COMPUTER APPLICATIONS
Class Hours	ACTG 190 COMPUTERIZED ACCOUNTING. Units
Bus. 421 ADVANCED APPLE COMPUTER Units (Grade Option)	BUS. 415 COMPUTER KEYBOARDING. Units (Grade Option) Class Hours Prerequisites: Description: An introduction to the keyboard, using the Selectric typewriter with drill work on the 10-key calculator. Further reinforcement and drill work on the IBM PCs using appropriate software materials. Use of special function keys and computer printer will be introduced. Stronly recommended as taken preceding to or concurrent with computer applications courses.

BUS. 420 INTRODUCTION TO APPLE COMPUTER.
Units (Grade Option) 1.5 Class Hours 1.5 lecture/demonstration hours/week 1 lab hour/week
Prerequisites: Description: Applications for microcomputers. This will include discussions and demonstrations of current microcomputer software and also introduction to more advanced microcomputer BASIC techniques.
BUS. 421 ADVANCED APPLE COMPUTER Units (Grade Option)
Prerequisites: 2 lab hours/week Bus. 420
Description: Advanced applications for microcomputers including business applications. Topics such as word processing, spreadsheets, database management and other software will be discussed and demonstrated.
BUS. 430 INTRODUCTION TO IBM/PC.
Units (Grade Option) 1.5 Class Hours 1.5 lecture/1 lab hour/week Prerequisites: None Description: An introduction to microcomputers using the IBM/ PC. Business applications including word processing, electronic spreadsheet, data base, and graphics are explored. An introduction to microcomputer BASIC is included. Strongly recommended BUS. 415 be taken preceeding or concurrent with this course.
BUS. 432 MICROCOMPUTER WORD PROCESSING:
Units (Grade Option) Class Hours Class Hours 3 lecture/2 lab hours/week Prerequisites Keyboard 40 wpm. Description: Introduction to word processing on a microcomputer utilizing WordStar* on IBM/PC. Includes: loading, creating files, Inputting, editing, filing, formatting, and printing. *Micropro™
BUS. 434 MICROCOMPUTER SPREADSHEET: LOTUS 1-2-3*
Units (Grade Option) 3 Class Hours 3 lecture/2 lab hours/week Prerequisites: None Description: An introduction to the use of spreadsheets concepts in solving business – related problems. IBM/PC LOTUS 1 – 2 – 3* will be utilized in this basic course Strongly recommended: enrollment in BUS. 415 preceeding or concurrent with this
course. *Lotus Dev. Corp.™
BUS. 436 DATA BASE MANAGEMENT dBASE II
Units (Grade Option) 3 Class Hours 3 lecture/2 lab hours/week Prerequisites: None Description: An introduction to data base management tech-
niques for common business applications. dBASE II will be used on the IBM/PC to develop, and report from, a data base. The student will design the data base, establish the data entry screens and produce complex business reports from the data base. Strongly recommended enrollment in BUS. 415 preceeding or concurrent with this course.
ECE. 243 MICROCOMPUTERS IN EARLY CHILDHOOD 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

neither requires nor assumes any prior computer knowledge. Emphasis on creative problem solving.

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.

H.EC 420 COMPUTER APPLICATIONS FOR HOME MANAGEMENT.

Units (Grade Option)	1
Class Hours (6 weeks)	3 lecture/demonstration
	hours/week
Prerequisites:	None

Description: Overview of home computer software as tools in home management. Sources of software and relative costs. Review of representative software for record keeping, word processing, nutrition and menu management, textiles and clothing, child development, decision making, and family education. Chance to see how software can be selected and customized. Demonstration on IBM, Apple, and TI home computers.

CAREER AND PERSONAL DEVELOPMENT

CRER 130 SELF-AWARENESS.

Units 1
Class Hours
Prerequisite
Description: The class is designed to promote personal growth,
career awareness, self-exploration, and interaction with others.
The process will be facilitated by various assessment instru-
ments, techiques, and lectures.

CRER 131 OCCUPATIONAL PLANNING.

Units 1
Class Hours
Prerequisites CRER 130
Description: Vocational interest tests, various self-appraisal tech-
niques and discussions give the student insights into his/her
abilities, interests, and personality. Occupational trends and
ways of learning more about specific occupations are explored.

CRER 137 LIFE AND CAREER PLANNING.

Units 3
Class Hours 3 lecture hours/week
Prerequisites
Description: Personal and career inventories are evaluated.
Career options are researched and job search techniques are
developed. The course stresses the significance of clearly
defined values and the development of strategies and goals for

CRER 140 PEER COUNSELING.

Units (Grade Option)
Class Hours
Prerequisites None
Description: This unique program is for students interested in
developing basic helping/counseling skills through study of
human development theory and application of self-assessment
techniques. The training enables the student to realize the
importance of deepening self-understanding, a sense of integrity,
and the capacity to love.

CRER 401 INTRODUCTION TO COLLEGE. Units	CHEM 210, 220 GENERAL CHEMISTRY.
Class Hours 16 lecture hours/semester Prerequisites None	Units 5, 5 Class Hours 3 lecture, 1 recitation, 5 lab hours/week
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.	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
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 (e.g., EXCEL) and emphasizes their special needs, all students are welcome to participate. The class deals more thoroughly with topics in CRER 401.	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 231 ORGANIC CHEMISTRY I.
CRER 650 SPECIAL INTEREST DISCUSSION GROUPS.	Units 5 Class Hours 3 lecture, 2 recitation,
Units	Prerequisites: CHEM 220 with grade of C
Prerequisite	Description: The basic concepts of carbon chemistry; a study of the structure, nomenclature, and reactions of the important classes of aliphatic and aromatic compounds. An introduction to IR and NMR spectroscopy is included.
social and cultural environment.	CHEM 232 ORGANIC CHEMISTRY II.
A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695	Units
Independent Study; 880 Other Selected Topics; 895 Other Independent Study.	Prerequisites: Chem 231 with grade of C or better. Description: More rigorous treatment of mechanisms, reactions, and synthesis. Structure determination by degradation and spec-
CHEMISTRY	troscopy. Laboratory will be implementation of techniques and skills taught in Chem 231, including identification of unknown
CHEM 110 CHEMISTRY AND DAILY LIFE. Units	compounds and mixtures. Extra supplies may be required. CHEM 250 QUANTITATIVE ANALYSIS.
Class Hours 3 lecture hours/week	Units
Prerequisites: None Description: Introduction to the language of chemistry, followed by investigations into the role chemistry plays in various aspects	Prerequisites: CHEM 220 with grade of C
of our environment. Topics such as pollution, food additives, energy and drugs are examined from a chemistry point of view.	Description: Study of the theory, calculations and common analytical procedures of quantitative analysis and the acquisition
CHEM 110 CHEMISTRY AND DAILY LIFE LABORATORY. Units	of related basic skills and techniques. Required of most students majoring in the physical sciences, medical sciences, and some
Class Hours 3 hours lab/recitation/week Prerequisites: Concurrent enrollment in or	areas of life science. CHEM 410 HEALTH SCIENCE CHEMISTRY.
completion of CHEM 110.	Units
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 chemi-	Class Hours
cal properties of substances.	Description: Elementary course covering fundamental principles
CHEM 192 ELEMENTARY CHEMISTRY. Units (Grade Option) 1–4 Class Hours 3 lecture, 1 recitation, 2 lab hours/week	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.
Prerequisites: MATH 110 or one year of high school Algebra. Concurrent enrollment in Geometry or Intermediate Algebra	CHEM 420 HEALTH SCIENCE CHEMISTRY.
strongly recommended. This course should not be elected by students who need a general survey course.	Units
Description: Introduction to some of the theories, laws, concepts and language of Chemistry. It is specifically designed to prepare	Prerequisites: CHEM 410 or CHEM 210 with grade of C or better
students for CHEM 210 with emphasis on problem solving. May be repeated up to 4 units.	Description: Same format as 410, but with organic and bio- chemistry as subject matter.

chemistry as subject matter.

A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

CHINESE

CHIN 801 CONVERSATIONAL CHINESE I.

Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites: None
Description: Introduction to reading, speaking, and writing
modern Mandarin Chinese. Emphasis on the spoken language.
Chinese culture background pertinent to the learning of the
language will be supplied

CHIN 802 CONVERSATIONAL CHINESE II.

Units (Grade Option)

Class Hours

Prerequisites:

CHIN 801

Description: Further reading, speaking and writing modern Mandarin Chinese. Emphasis on the spoken language. Chinese culture background pertinent to the learning of the language will be supplied.

COMPUTER INFORMATION SYSTEMS

COMP 103 INTRODUCTION TO COMPUTER SCIENCE.

Units (Grade Option)

Class Hours

3 lecture/2 lab hours/week
Prerequisites:

None
Description: Introduction to computer hardware, software and
programming languages Students will be exposed to a wide
range of computer applications. Instruction will be provided in
text editing, algorithms and problem solving, and an introduction
to programming using Karel the robot and Logo with turtlegraphics.

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, 248, 247. 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 151 INTRODUCTION TO COBOL PROGRAMMING.

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

Units
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

Description: Introduction to computer programming using the BASIC language. Topics will include Input/Output, control state-

ments, subroutines and functions, one and two dimensional arrays, string processing, random numbers, sequential files, documentation, and programming style.

COMP 162 FORTRAN PROGRAMMING.

Units

Class Hours

3 lecture/4 lab hours/week
Prerequisites: MATH 130 with grade of C or better, or MATH
241 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 INTRODUCTION TO PROGRAMMING IN PASCAL.

Description: An introductory course in programming using the PASCAL language. Emphasis will be on the use of structured programming techniques in general problem—solving situations with both numerical and non—numerical applications.

COMP 179 FILES AND DATA BASE MANAGEMENT.

Units 3
Class Hours 3 lecture hours/week
Prerequisites: COMP 155 or 162 or 170; COMP 115 strongly
recommended; COMP 181 corequisite.

Description: A discussion of files, file organization, file updating, and data-based management systems. Theory and examples of sequential, virtual array, and random I/O files, and an introduction to data base management systems as used in computer systems.

COMP 181 PROGRAMMING FOR FILES.

Units
Class Hours
1 lecture/4 lab hours/week
Prerequisites
COMP 151 or COMP 155 or COMP 162 or
COMP 170; Must be taken concurrently with COMP 179.
Description; This course utilizes one of the higher level languages
to create programs that illustrate techniques taught in COMP 179.
Possible languages currently include BASIC, COBOL, FORTRAN
and Pascal. This course may be repeated for credit if a different

language is chosen. (See class schedule for specific section.)

COMP 183 ADVANCED PROGRAMMING TECHNIQUES.

Units

Class Hours

1 lecture/4 lab hours/week
Prerequisites

COMP 151 or COMP 155 or COMP 162 or

COMP 170; Must be taken concurrently with COMP 245.
Description, This course utilizes one of the higher level languages
to create programs that illustrate techniques taught in COMP 245.
Possible languages currently include BASIC, COBOL, FORTRAN
and Pascal. This course may be repeated for credit if a different
language is chosen. (See class schedule for specific section.)

COMP 245 ADVANCED TOPICS PROGRAMMING.

Units 3
Class Hours 3 lecture hours/week
Prerequisites: COMP 151 or COMP 155 or COMP 162 or
COMP 170 COMP 115 strongly recommended COMP 181
corequisite.

Description: Application of sequential and random files. Additional topics will be chosen from data base systems, text processing, simulations, language translators, and spreadsheet design.

COMP 275 ASSEMBLY LANGUAGE PROGRAMMING.

Units

Class Hours

3 lecture/3 lab hours/week
Prerequisites:

Strong knowledge of one programming
language and COMP 115 prerequisite or concurrently
Description: Introduction to assembly language programming
including input/output, memory reference, and register reference
instructions. Address modification, indirect addressing, indexing
and sub—routines. Topics also include macro definition and use.

COMP 699 INDEPENDENT COMPUTER LABORATORY

Units

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 58: 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-on Ed

Description: Students' jobs must be related to their occupational goals. Scheduled class meetings and individual conferences are required. Students must set and implement job objectives in which they improve their skills, knowledge or performance on the job.

DEVELOPMENTAL SKILLS

DSKL 810 SPECIFIC LEARNING SKILLS.

Units (Credit Only)

Class Hours

Prerequisites:

Description: Individual and small group activities designed to 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 SKILLS ASSESSMENT.

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

DSKL 813 DEVELOPMENTAL READING AND THINKING.

Units (Credit/No-credit)

Class Hours

1.5 lecture, 1.5 lab hours/week
Prerequisites

Verifiable learning disability
Description: Small group classroom instruction désigned to assist
learners with identified learning disabilities in the development/
improvement of receptive written language and field independent
thinking skills. (May be repeated up to a total of 9 units.)

DSKL 814 DEVELOPMENTAL SPELLING AND WRITING.

Units (Credit/No-credit) 0.5-2
Class Hours 1.5 lecture, 1.5 lab hours/week
Prerequisites Verifiable learning disability.
Description Small group and classroom activities designed to assist students with identified learning disabilities in spelling and writing skills. (May be repeated up to a total of 9 units)

DSKL 816 TUTORING.

Units (Credit/No-credit)

Class Hours

Prerequisites:

Dskl 811: Verifiable learning disability.

Description: This course is designed to assist students with 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
Prerequisites
Description: The Classical period to the 18th century Plays, physical theatres, staging, directing and their relationship to existent cultural forces. Use of audio-visual resources and required play attendance

DRAM 102 HISTORY OF THEATRE II.

Units (Grade Option)
Class Hours
Prerequisites

3 lecture hours/week
None

Description: The 18th century to the present. Development and changes in dramatic styles and structure. The 19th century, Ibsen, Chekhov, new stage craft, Brechtian style, theatre of the absurd and living theatre. Use of audio – visual resources and required play attendance.

DRAM 106 READER'S THEATRE. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Oral presentation of literature both dramatic and non-dramatic Presentations are given with a minimal use of line memorization and properties. The class will consist of lectures, presentations, and discussion of interpretations. Outside reading and rehearsal are required. DRAM 140 INTRODUCTION TO THE THEATRE. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Nomenclatures, duties, and responsibilities of the various theatre artists, traditions, script analysis, approach to a script from the director's viewpoint, the designer's viewpoint. Publicity, performance, music and dance, motion pictures, and	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. Units (Grade Option)
DRAM 142 GREAT PLAYS: CLASSICAL AND RENAISSANCE. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None 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 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 143 GREAT PLAYS: MODERN ERA. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Study of the great plays and playwrights from the 17th Century to the present. See description of Drama 142. DRAM 144 HISTORY AND DEVELOPMENT OF THE AMERICAN MUSICAL. (Also LIT. 144)	DRAM 230 MIME AND MOVEMENT. Units (Grade Option)
Units (Grade Option) Class Hours Prerequisites 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 Americans of the structural components.	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 make- up. Development of skills in practical application. DRAM 261, 262 DRAMA TECHNOLOGY I, II. Units (Grade Option) 3 Class Hours 2 lecture & 3 lab hours/week Prorequisites: 2 lecture & 3 lab hours/week
Can theatrical form, will be a major part of the class. DRAM 151 INTRODUCTION TO SHAKESPEARE I. (Also LIT. 151) Units (Grade Option)	Prerequisites: Description: Theory and practice relating to the design and execution of lighting and sound for theatrical presentations. Study of various types of lighting and sound equipment and accessories. Elements of electricity, qualities of light and sound and their control. DRAM 263, 264 DRAMA TECHNOLOGY III, IV. Units (Grade Option) Class Hours 3 lecture & 3 lab hours/week Prerequisites: DRAM 261 and 262 or their equivalent. Description: Lectures and special projects in stage managing, technical work, and design.
DRAM 152 INTRODUCTION TO SHAKESPEARE II. (Also LIT. 152) Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: ENGL 100 Description: Study of selected plays of Shakespeare. Some discussion of Shakespeare's life and time and some discussion of his poetry will be included, although his plays are the main	DRAM 300 PLAY PRODUCTION. Units (Grade Option) 0.5-3 Class Hours By arrangement Prerequisite Audition. Description: Problems of actual play production, acting. Play rehearsal of seven weeks for each of three major 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.

Units (Grade Option)

Class Hours Prerequisites: Description: Problems of actual play production. Set building, painting, lighting, sound, properties, rigging, and stage crew operations; costume and make-up. Students may work on one to three plays per semester. May be repeated for up to 18 units.
Units (Grade Option)
Class Hours 2 lecture hours/week
Prerequisites: Concurrent enrollment in DRAM 305. 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 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
EARLY CHILDHOOD EDUCATION
ECE. 210 EARLY CHILDHOOD EDUCATION PRINCIPLES.
(Also PSYC 210) 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. Exploration of various program models in ECE and potential future trends.
ECE. 211 EARLY CHILDHOOD EDUCATION CURRICULUM. (Also PSYC 211)
Units (Grade Option) Class Hours Prerequisites: Description: Development of goals and objectives leading to the selection and management of activities for young children. Foster skills in providing quality learning experiences. Appreciation of the value of children's play. Development of appropriate curriculum evaluation methods.
ECE. 212 CHILD, FAMILY, AND COMMUNITY.
(Also PSYC 212) 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. 230 CREATIVE ACTIVITIES FOR THE YOUNG CHILD
Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Designed to give practical skills in presenting activities to young children. The student will understand the 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.

0.5 - 3

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

ECE. 241 EARLY CHILDHOOD EDUCATION ADMINISTRATION II.

Units (Grade Option)
Class Hours
Prerequisites: None
Description: Focus on the human relations aspects of child care.
Major topics include: Staffing and supervision; parent involve-
ment, issues in ECE.

ECE. 243 MICROCOMPUTERS IN EARLY CHILDHOOD EDUCATION.

Offits (Grade Option)
Class Hours
Prerequisites:
Description: Exploration of computer software specifically desig-
ned for curriculum with young children. Authoring systems and
languages (particularly emphasis on LOGO) included Course
neither requires nor assumes any prior computer knowledge.
Emphasis on creative problem solving.

ECE. 245 TEACHING AND MANAGEMENT INTERNSHIP I.

il i io	AGEMENT INTERNOPIE I.
Units (Grade Option)	
Class Hours	TBA
Prerequisites: EC	E certificate or 14 units of FCF
	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; 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 under	erstanding of nutritional
requirements for the young child and the	effects of inadequate
nutrition on growth and devlopment. Gi	uides for parents and
teachers concerning nutritious snacks and	d meals

ECE. 313 HEALTH AND SAFETY FOR YOUNG CHILDREN.

Units (Grade Option)
Class Hours (8 weeks)
Prerequisites: None
Description: Safety regulations will be reviewed for those plan-
ning 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

A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

ECONOMICS

to your children will be included.

ECON 100 PRINCIPLES OF MACRO ECONOMICS.

Units (Grade Option)
Class Hours
Prerequisites: None
Description: The American economy; the price system;
resources, machines and labor in production; firms and organ-
izing 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.

Units (Grade Option)
Class Hours
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)	
Class Hours	3 lecture hours/week
	None
Description: Origin and develop	ment of the American economy.
Industrial growth, land, and re	esource use, the transportation
revolution, development of mon	

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 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

ENGINEERING

ENGR 100 ENGINEERING AND THE ENVIRONMENT.

Class Hours 2 lecture/1 lab hour/week Prerequisites: Required for engineering majors. Description: Technological assessment of current and future problems facing mankind, including the ecological, legal, social and political aspects and their interconnections. Exploration of the engineering system's approach to finding and providing optimum
engineering system's approach to finding and providing optimum solutions of environmental needs. This course is open to both technical and non-technical majors.

ENGR 200 DESCRIPTIVE GEOMETRY.

Units	2
Class Hours	2 lecture/4 lab hours/week
	MATH 130
Description: Lectures and dra	afting room work orthographically
solving engineering problems	in three-dimensional space. Intro-
duction to graphic statics, ved	ctor properties, space-force poly-
gons.	and the second s

ENGR 220 ENGINEERING GRAPHICS.

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

ENGR 230 STATICS.

Units
Class Hours
Prerequisites: MATH 251 or 241
Description: Plane and space force systems; equilibrium
problems covering structures, machines, distributed force
systems, friction, moments of inertia and virtual work.

ENGR 260 CIRCUITS AND DEVICES.

Units		
Class Hours		. 3 lecture hours/week
Prerequisites:	MATH	252 or 242, PHYS 260
		recommended

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

ENGR 260L CIRCUITS AND DEVICES LABORATORY.

Units	1
Class Hours 3 lab hours	week
Prerequisites:	

Description: DC and AC network circuit theory. Cathode-ray oscilloscope theory and use. Non-linear device measurements, transistors and integrated circuits.

A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

ENGLISH

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

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

The English Department recognizes the Advanced Placement Test in English.

ENGL 100 READING AND COMPOSITION

	TEADING AND COMPOSITION.	
Units		3
Class	lours	veek
Prerec	isites: ENGL 100 recommendation via the placer	nent

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

ENGL 110 COMPOSITION AND LITERATURE. Units 3 Class Hours 3 lecture hours/week Prerequisites: ENGL 100 Description: Study of at least three literary types: short story, drama, poetry, or novel, with extensive critical writing. Essays will be based on reading and class analysis. ENGL 161 CREATIVE WRITING I.	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.
Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: The craft of writing fiction. Designed to help beginning writers to find a way to begin and to encourage journeyman writers to continue. Emphasis falls upon writing technique and critical ability. ENGL 162 CREATIVE WRITING II.	ENGL 870 SPELLING. Units (Grade Option)
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 880 ENGLISH FUNDAMENTALS AND GRAMMAR REVIEW. Units
ENGL 165 ADVANCED COMPOSITION. Units	students whose English Placement Test indicates a need for stringent review. Grammar, punctuation, vocabulary, and diction are included in the course.
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.	A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
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	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.
achieving successful written communication—both formal and informal—are set forth. ENGL 801 READING AND WRITING. Units	Units (Grade Option)
Description: This is an AA/AS degree level course, and is especially recommended for students who have found previous English courses difficult. Content: reading of non-fiction and short fiction materials; writing of paragraphs; some work on study skills and critical thinking. The course is designed to increase reading and writing skills, to develop an interest in reading for pleasure and information.	LIT. 115 INTRODUCTION TO POETRY. Units (Grade Option)
ENGL 802 READING AND INTERPRETATION. Units	LIT. 141 DRAMA STUDY AND APPRECIATION. Units (Grade Option)

LIT. 142 GREAT PLAYS: CLASSICAL AND RENAISSANCE. (Also DRAM 142) Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Study of the greatest plays and playwrights from classical Greece to the Elizabethan era in England. Principles	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,
underlying dramatic literature in each period will be related to dominant social, intellectual, and artistic forces. Play attendance may be required.	LIT. 231 SURVEY OF ENGLISH LITERATURE I. Units (Grade Option)
LIT. 143 GREAT PLAYS: MODERN ERA. (Also DRAM 143) Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None	Class Hours Prerequisites: Description: Study of the typical works of major English writers from Chaucer to the end of the 18th Century. Discussions, lectures, writing of critical essays.
Description: Study of the great plays and playwrights from the 17th century to the present. Principles underlying dramatic literature in each period will be related to dominant social, intellectual, and artistic forces. Play attendance may be required.	Units (Grade Option)
LIT. 144 HISTORY AND DEVELOPMENT OF THE AMERICAN MUSICAL. (Also DRAM 144)	Description: Study of the typical works of major English writers from the Restoration to the Victorian period. Discussions, lectures, writing of critical essays.
Units (Grade Option) Class Hours Prerequisites: 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.	LIT. 233 SURVEY OF ENGLISH LITERATURE III. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: ENGL 110 Description: Study of major English writers of the 20th century, including Woolf, Eliot, Yeats, and Huxley. Discussions, lectures, writing of critical essays. LIT. 251 WOMEN IN LITERATURE.
LIT. 151 INTRODUCTION TO SHAKESPEARE I. (Also DRAM 151) Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: ENGL 100 or equivalent. Description: Study of representative plays of Shakespeare. A chronological sequence of plays, from each of the phases of	Units (Grade Option) Class Hours Prerequisites: Description: This course explores women writers' views of women and men in short stories, novels, poetry, drama, and film. The class discusses literature beginning with the ancient Greeks up to contemporary feminist writers, comparing men and women writers on similar themes. May be repeated three times for credit.
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. 252 WOMEN WRITERS. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None
LIT. 152 INTRODUCTION TO SHAKESPEARE II. (Also DRAM 152) Units (Grade Option)	Description. This course presents an overview of women writers' literary history and then concentrates in depth on selected writers and works.
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.	Units (Grade Option) 3 Class Hours 3 lecture hours/week 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
LIT. 191 CHILDREN'S LITERATURE. (Also ECE. 191) Units (Grade Option) 3	readings of poetry, short stories, novels and drama; written reports. Satisfies Ethnic Studies requirement.
Class Hours	LIT. 268 BLACK POETRY. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Survey of oral and written tradition in the poetic theory and practice of the black poet in America from 1619 to the present. Recordings of poetry readings, song lyrics, lectures, and readings by visiting poets. Satisfies Ethnic Studies requirement.
	visiting poets. Satisfies Ethnic Studies requirement.

LIT. 301 MASTERPIECES OF CLASSICAL AND EUROPEAN LITERATURE I. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: Eligibility for ENGL 100 or equivalent. Description: Selections from the literature of ancient Greece through Renaissance Europe will be read, analyzed, discussed and enjoyed. Group work, oral reports, papers.	LIT. 441 FILM STUDY AND APPRECIATION I. Units (Grade Option) 3 Class Hours 3 lecture/1 lab hour/week 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
LIT. 302 MASTERPIECES OF CLASSICAL AND EUROPEAN LITERATURE II. Units (Grade Option)	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. LIT. 455 THE NONFICTION FILM. Units (Grade Option) 3 Class Hours 3 lecture hours/week
Tolstoi, Dostoyevsky, and Chekhov. All works will be read in translation. LIT. 371 MEXICAN-AMERICAN LITERATURE. Units (Grade Option)	Prerequisites: Description: Study of the nonfiction film (including documentaries, propaganda films and poetic/lyrical films) in order to understand the nature, the potential, the power, and the impact of such films within the historical perspective of both motion pictures and the human condition. LIT. 461 FILM MAKING. Units (Grade Option)
poems, and essays. Satisfies Ethnic Studies requirement. LIT. 372 MYTH AND FOLKLORE OF LA RAZA. Units (Grade Option)	Class Hours 2 lecture/2 lab hours/week Prerequisites: None Description: Theoretical and practical course on the art and technique of film making. Working from the conceptual stage, students will prepare scenarios, scripts and story boards. Using super 8mm equipment they will shoot film, edit their footage into a meaningful visual form and ultimately produce short films. A detailed description of the following courses may be found
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.	under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study. READ 801 DEVELOPMENTAL READING. Units (Credit Only)
LIT. 422 FANTASY AND SCIENCE FICTION. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Study of fantasy and science fiction emphasizing 20th Century works. Both popular writers and established literary figures covered in wide range of forms, types, and themes of science fiction. Extensive and intensive readings, lectures, discussion, and critical papers in areas of individual interest.	Prerequisites: Description: By means of individual and small group work, Developmental Reading concentrates on the teaching of basic 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 803 READING IMPROVEMENT. Units (Credit Only) 0.5–3
LIT. 431 MYTHOLOGY. Units (Grade Option)	Class Hours

WRIT 801 BASIC WRITING I.

Units (Credit Only)	3
Class Hours	ours/week
Prerequisites:	None
Description: By means of individual and group instru-	ction, this
course concentrates on basic skills in writing, stressing	sentence
and paragraph composition and standard writing co	nventions
and mechanics. May be repeated three times for cred	it.

WRIT 802 BASIC WRITING II

WHIT OUZ BASIC WHITIN	
Units (Credit Only)	
Class Hours	3 lecture hours/week
Prerequisites:	None
Description: Although inter other English courses, the work in English composition quality and support of idea methods of essay-writing.	nded to augment writing instruction in class is open to all students requiring n. Emphasis is placed on organization, s, language effectiveness, and various Students may enroll up to the twelfth be repeated twice for credit.

WRIT 804 BASIC WRITING PRACTICUM.

Units (Credit Only) 0.5-3
Class Hours 3 lecture hours/week
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

ENGLISH INSTITUTE

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

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

INSTITUTO DE INGLES

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

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

E.I. 311, 312 BASIC COMPOSITION I. II.

Units
Class Hours
Prerequisites: 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
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
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
diomatic 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
Class Hours
Prerequisites:
Description: Basic, intermediate, and advanced practice in
writing English for students whose native language is other than
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 a reading English for students whose native English. Comprehension and vocabula stressed. May be repeated once for cred	advanced practice in language is other than ary development are

0.5-1 each

E.I. 871, 872 CULTURAL ORIENTATION I, II. Units (Credit Only)

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ENVIRONMENT

ENVR 120 ECONOMIC GEOGRAPHY. (Also GEOG 120)

Units (Grade	Option)			 	1	 		3
Class Hours		1						3 lecture	hours/week
Prerequisites:	* + = + + +		**	1.474	 * 2 .		 		None

Description: Investigation and description of basic resources used by humans. Evaluation of effects cultural and physical environments have on utilization of these resources. Emphasis on industrialized regions of the world and interrelationship of urban growth and economic development.

A detailed description of the following courses may be found under Announcement of Courses, page 58: 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: Description: Conversation in the language, dictation, reading, study of the fundamentals of grammar and the writing of simple French exercises. The student is urged to make extensive use of the listening facilities in the language laboratory.
FREN 111 ELEMENTARY FRENCH I.
Units
FREN 112 ELEMENTARY FRENCH II.
Units
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
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

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.
Units
FREN 161 READINGS IN FRENCH LITERATURE I.
Units
FREN 162 READINGS IN FRENCH LITERATURE II
Units
FREN 196 FRENCH LANGUAGE LABORATORY. Units (Credit Only)
FREN 197 FRENCH PRONUNCIATION.
Units Class Hours Class Hours Obscription: 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. Units (Grade Option) 2
Class Hours Prerequisites: 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.
Units (Grade Option) 2 Class Hours 3 lecture hours/week 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 require-

ment at California State Colleges or at the University of Califor-

nia.)

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 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 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 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
GEOGRAPHY
GEOG 100 PHYSICAL ENVIRONMENT.
Units
GEOG 110 CULTURAL GEOGRAPHY.
Units (Grade Option) Class Hours Silecture hours/week Prerequisites 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 Class Hours 3 lecture hours/week Prerequisites: None Description: Investigation and description of basic resources used by humans. Evaluation of effects cultural and physical environments have on utilization of these resources. Emphasis or industrialized regions of the world and interrelationship of urban growth and economic development.

GEOG 150 WORLD REGIONAL GEOGRAPHY.

regions, countries, states, and major cities

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

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

A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

independent olddy.
GEOLOGY
GEOL 100 SURVEY OF GEOLOGY.
Units (Grade Option) 3 Class Hours 2 lecture, 1 recitation, 2 lab hours/week
Prerequisites: Not open to students who have taken or are taking GEOL 210.
Description: Basic principles of igneous, sedimentary and metamorphic geology. Lectures on rocks, minerals and the origin of the earth, continents and mountains. The entire lecture portion of this course is available as an individualized, self-paced, slidetape presentation in the Media Learning Center. Field trips may be required.
GEOL 110 GEOLOGICAL HAZARDS.
Units (Grade Option) Class Hours 2 lecture hours/week 3field trips/semester Prerequisites: GEOL 210 or GEOL 100 are recommended.
Description: Slide-illustrated lectures and field trips are used in a study of geologic hazards in California and especially in the San Francisco Bay Area. The course stresses earthquake and landslide hazards with less emphasis placed on volcanic hazards, sea wave hazards, dam failure hazards, bay pollution and oil spills.
GEOL 120 GEOLOGY OF THE NATIONAL PARKS
Units
GEOL 210 GENERAL GEOLOGY: DYNAMICAL
AND STRUCTURAL.
Units
GEOL 220 HISTORICAL GEOLOGY.
Units 4 Class Hours 3 lecture, 3 lab hours/week Prerequisites: GEOL 210 or GEOL 100 are recommended.
Description. Geological history of the earth and the evolution of its animal and plant inhabitants. Field trips may be required.
A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

GERMAN

Independent Study.

GERM 110 ELEMENTARY GERMAN.	-
Units Sectors 5 lecture hours/we	ek
Prerequisites: No	ne

Description: Study of and practice in the basic forms and 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.

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

GERM 112 ELEMENTARY GERMAN II.

Units	
Class Hours	3 lecture hours/week
Prerequisites:	GERM 111
Description: Further basic principles of	beginning German,

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 House
Class Hours 5 lecture hours/week
Prerequisites: GERM 110 or equivalent.
Description: Continuation of world by
Description: Continuation of work begun in German 110, with
continued practice in listening, speaking, writing, and reading of
or mistering, speaking, writing, and reading of
more difficult texts. Students are urged to make use of the
listanias facilities and diges to make disc of the
listening facilities in the language laboratory.

GERM 121 ADVANCED ELEMENTARY GERMAN I.

Units	
Class Hours	lecture hours/week
Prerequisites: GERM	1 110 or GERM 112
Description: The basic principles of Ad- German, offered at a less intense pace that semester equals approximately half of Germa for fulfilling transfer language requirements.	vanced Elementary German 120 One

GERM 122 ADVANCED ELEMENTARY GERMAN II.

Offits + construction of the construction of t	3
Class Hours	s/week
Prerequisites: GEF	RM 121
Description: Further basic principles of Advanced Eler	nontary
German, offered at a less intense pace than German 120	May be
used for fulfilling language requirements.	may bo

GERM 196 GERMAN LANGUAGE LABORATORY.

Units (Credit Only)	.,
Class Hours	3 lab hours/week
Prerequisites:	Concurrent enrollment in GERM 110.
	111, 112, 120, 121, 122, 130, or 140
Description: A program	consisting of 25-50 hours of work to be

done in the language laboratory emphasizing speaking and understanding German.

GERM 801 CONVERSATIONAL GERMAN I.

University of California.)

Offis (Grade Option)
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 engken language (This assessed)
to give flexibility in the spoken language. (This course will not
fulfill language requirement at California State Colleges or at the

GERM 802	CONVERSATIONAL	GERMAN II.
Unita / Cond		Section 1997

Offits (Grade Option)
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)
class Hours
Prerequisites:
Description: More advanced drill in the patterns and idioms of
daily speech is supported with sufficient grammar to give
lexibility in the spoken language. (This course will not fulfill
anguage 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 p daily speech is supported with sufficient flexibility in the spoken language. (This language requirement at California State University of California.)	atterns and idioms of nt grammar to give course will not fulfill

A detailed description of the following courses may be found under Announcement of Courses, page 58: 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)
Class Hours (6 weeks)
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 102 REPRODUCTION AND SEXUALITY — See BIOL 135

HSCI 103 DRUGS AND ALCOHOL.

Units
Class Hours (6 weeks)
Prerequisites: None
Description: Survey of the societal and personal health problems
involved in the use of alcohol and drugs. Included are physiologi-
cal and psychological aspects of use and abuse

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)
Class Hours (6 weeks)
Prerequisites: None
Description: Study of cause, prevention, and control of infectious

and noninfectious diseases. Highlights of primitive medical practices and modern advances in fighting disease will be discussed.

HSCI 106 MENTAL HEALTH. Units (Grade Option)
Units (Grade Option)
HSCI 107 CONSUMER HEALTH.
Units Class Hours (6 weeks) Prerequisites: Description: A common-sense guide to the health services of today. Topics will include: selection of appropriate medical services and medical insurance plans, avoidance of "quackery" and frauds in medicine, sensible selection of health care products.
HSCI 110 FIRST AID.
Units Class Hours (6 weeks) Prerequisites: Description: First aid is the immediate, temporary treatment given in the case of accident or sudden illness before the services of a physician can be secured. This course is required for all students not presenting standard Red Cross certificates. Not required of those who have graduated from a California public high school since 1952.
HSCI 410 MICROCOMPUTER FOR HEALTH SCIENCES.
Units Class Hours (8 weeks) Prerequisites: 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 58: 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.
Units (Grade Option) Class Hours Prerequisites: 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. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None. HIST 100 is recommended. Description: The rise of modern Europe: the Enlightenment, the

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

Units (Grade Option)

merica and the role of United States in modern world. (Fulfills erican Institutions requirement.) T 105 THE BIBLE AS HISTORY. s (Grade Option) 3
ss Hours 3 lecture hours/week cription: Writings of the Old and New Testaments in their orical settings. T 201 UNITED STATES HISTORY TO 1865. requisites: scription: A survey of U.S. history beginning with English onization along the Atlantic Coast, and including the westward ansion of the colonists, the Revolution, the creation of the astitution, the Federalist and Jeffersonian philosophies, the es of sectionalism and nationalism, slavery and abolition, and Civil War and Reconstruction Economic, political, social and llectual patterns of the period are examined. (Fulfills American itutions Requirement.) T 202 UNITED STATES HISTORY SINCE 1865. construction Period and explores industrial and urban expann, economic and social development, patterns of liberal orm, and the foreign and domestic policies of the U.S. up to present. (Fulfills American Institutions requirement.) T 205 RELIGION IN AMERICA. scription: Historical survey of religious thought and activity in country and its influence upon the development of American ST 242 THE AFRO-AMERICAN IN U.S. HISTORY. its (Grade Option) 3 lecture hours/week ass Hours

None. HIST 201 or 202 recommended. scription: This survey course begins with a chronological study the history of black Americans, from medieval Africa through slave trade, American slavery, abolitionism, the Civil War and construction, Jim Crow America, the Harlem Renaissance, the 30s and the "modern" civil rights period. In addition, it includes tudy of the nature, causes, and effects of racial prejudice, and nsiders various means of dealing with, and trying to overcome, cism and prejudice in American society. (Fulfills Ethnic Studies American Institutions requirements.) HIST 260 WOMEN IN AMERICAN HISTORY.
Units (Grade Option) 3
Class Hours 3 lecture hours/week Prerequisites: Description: The role of women in American society from colonial period to present, particularly the conflicts between the role French Revolution, and the growth of Liberalism. The emergence prescribed for women and the reality of their lives. As a new field, of modern society, economic problems of industrialization, development of modern ideologies, the World Wars and international women's history invites creativity and experimentation. (Fulfills American Institutions requirement.) HIST 310 CALIFORNIA HISTORY. Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites None Class Hours 3 lecture hours/week
Prerequisites None HIST 100 is recommended.
Description: The colonial settlement of North America, the

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 constitu-

tional, 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:

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)
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)		7 1					*****	3
Class hours				 			3	lecture	hours/week
Prerequisites:				 	 	- 2	 		None

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) Class Hours 3 lecture hours/week Prerequisites: 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.
Units (Grade Option)
Class Hours
Prerequisites: None
Description: A historical survey of the cultural achievement of
China and Japan from about the 13th Century to the present. This
course will recapitulate briefly the old cultural traditions, but the

main discussion will be concerned with foreign 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
Class Hours
Prerequisites: None
Description: Study of important intellectual, economic or political
trends of a particular period in history. The period and subject will
vary upon interest of instructor and students.

A detailed description of the following courses may be found under Announcement of Courses, page 58: 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.

Sims (Grade Option)
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 once
for credit

H.EC 111 TECHNIQUES OF FIT.

Units (Grade Option)
Class Hours 3 lecture/demonstration hours/week
Prerequisites: H.EC 110, 112, or equivalent.
Description: Emphasis on understanding sizing, ease, fabric variability, and individual figure problems. Effective pattern altera-
tion by the pivot and slide technique. May be repeated once for credit

H.EC 112 KNITS AND WOVENS.

Units (Grade Option)
Class Hours 3 lecture/demonstration hours/week
Prerequisites: None
Description: Experimentation and decision making with fabrics of varying amounts of stretch will be the focus of the course. Learning techniques suitable for each type of fabric and design will be covered. Using the many options of sewing machines, including the babylock, will be included. May be repeated once for credit.

H.EC 113 TEXTILES.

Units (Grade Option)	3
Class Hours	
Prerequisites:	None
Description: Study of natural and	chemical fibers: varns and cloth
construction; weaving; finishing	and dyeing. Study of purchase.
use, care, and techniques of	f construction suitable for the
different fabrics. Fabric characte	eristics and use in clothing will be
emphasized.	and the second s

H.EC 115 INTERMEDIATE CLOTHING CONSTRUCTION

Units (Grade Option)					3
Class Hours	3	lecture/demonstration	on ho	urs/we	ppk
Prerequisites:		HFC	110 1	111 1	12
A constitution of the constitution of			110,	111	16.

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 once for credit.

H.EC 116 ADVANCED CONSTRUCTION/TAILORING.

Units (Grade Option) 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

H.EC 127 CUSTOM DRESSMAKING. Units (Grade Option) 1.5				
Class Hours (8 weeks)				
Prerequisites: None Description: Learn the tips and techniques to make dressmaking and alterations profitable. Learn pricing, how to build your clientele, time management, record keeping, and other necessary skills. May be repeated once for credit.				
H.EC 128 DECORATING WITH FABRIC. Units (Grade Option)				
Prerequisites: 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 once for credit.				
H.EC 129 UPDATE ON TECHNIQUES. Units (Grade Option) 1 Class Hours (6 weeks) 3 lecture/demonstration				
Prerequisites: None Description: Update on sewing machines and attachments, new pressing equipment, notions, interfacings, fabrics, techniques, and trends in clothing construction. May be repeated once for credit.				
H.EC 150 FASHION MERCHANDISING. Units (Grade Option) 3				
Class Hours Prerequisites 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.				
H.EC 151 FASHION MERCHANDISING. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: An overview of the retail fashion industry and career				
options. Students will plan promotions, select a merchandise assortment, identify fashion trends and develop effective human relations and communications skills. Field trips and guest speakers.				
H.EC 307 FOOD PREPARATION. Units (Grade Option) 3 Class Hours 3 lecture/demonstration				
Prerequisites: None 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.				
H.EC 310 NUTRITION. (Also BIOL 310) Units (Grade Option) 3 Class Hours 3 lecture hours/week				
Prerequisites 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) Class Hours Prerequisites: 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). Units (Grade Option) 3 Class Hours 3 lecture/demonstration hours/week
Prerequisites: None Description: Lectures in realistic application of sound nutrition principles. Emphasis is placed on methods to improve diet by lowering total fat, sugar, and salt content of the American Diet, using food demonstrations, food tasting, and home food preparation practice.
H.EC 410 MANAGEMENT OF TIME AND RESOURCES.
Units (Grade Option) 2 Class Hours 2-3 lecture hours/week Prerequisites: None Description: Emphasis on time management and decision making. Energy management, work simplification, money management with emphasis on record keeping will be covered. Introduction to personal computer software in the home management field will be included.
H.EC 416 CONSUMER DECISION MAKING.
Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Study of the skills needed for decision making by consumers in American society. Consumerism, rights and 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: None Description: Overview of home computer software as tools in home management. Sources of software and relative costs. Review of representative software for record keeping, word processing, nutrition and menu management, textiles and clothing, child development, decision making, and family education. Chance to see how software can be selected and customized. Demonstration on IBM, Apple, and TI home computers.
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 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; insulation, weather stripping and uses of solar energy. Guest speakers.

A detailed description of the following courses may be found under **Announcement of Courses**, page 58: 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.
Units (Grade Option)
Class Hours
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 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

INTEGRATED INFORMATION PROCESSING.

OFAD 100 INTRODUCTORY	TYPEWRITING.
Units (Grade Option)	1-3
Class Hours	5 supervised lab hours/week
Prerequisites:	None
Description: Opportunity to o	develop correct typewriting tech-
niques, keyboard mastery, ar	nd basic skill in typing. Each unit
earned upon mastery compl	etion of specified lessons, tests,
speed skill and use of audio-v	visual method of instruction.

OFAD 105 TYPEWRITING FOR SPANISH SPEAKING STUDENTS. Units (Grade Option)

Class Hours 5 supervised lab hours/week
Prerequisites: None
Description: Self-paced course in keyboard and efficient typing
skills for straight copy, simple letters, reports, and tables. Utilizes
slides, tapes, and book in English. Bilingual aid available. Each
unit earned upon mastery completion of specified lessons, tests,
speed skill, and use of audio-visual method of instruction.

OFAD 110 INTERMEDIATE TYPEWRITNG.

Units (Grade Option)	1-3
Class Hours	5 supervised lab hours/week
Prerequisites:	OFAD 100 with C or better
development of skill in typing	typing speed and accuracy, and g. Each unit earned upon mastery ons, tests, speed skill, and use of ction.

OFAD 120 ADVANCED TYPEWRITING.

instruction.

Units (Grade Option)
Class Hours 5 supervised lab hours/week
Prerequisites: OFAD 110
Description: Improvement of typing speed and accuracy, skill
development in arranging and typing various business letters and
forms. Each unit earned upon mastery completion of specified

lessons, tests, speed skill, and use of audio-visual method of

OFAD 145 TYPEWRITING SKILL BUILDING. Units (Credit/No credit)
Class Hours 5 lab hours/week Prerequisites: None Description: Designed to improve your ability to type straight copy with correct technique, to develop accuracy, and increase speed. May be repeated once for credit.
OFAD 200 SHORTHAND FOR THE ELECTRONIC OFFICE
(GREGG SYSTEM). Units 1-3 Class Hours 3 lecture/2 lab hours/week Prerequisites: Enrollment in or completion of OFAD 400; enrollment in or completion of OFAD 100 or equivalent and enrollment in or completion of OFAD 400 or ENGL 100 or 801. Description: An introductory course in Gregg Shorthand IPM (Individualized Progress Method) for today's modern office with practice in simple dictation and transcription.
OFAD 205 ABC SHORTHAND.
Units Class Hours 3 lecture hours/week Prerequisites: Recommended: One college English course and/or OFAD 400; one college typing course or equivalent. Description: A beginning course in alphabetical shorthand designed for students who are interested in improving their note-taking capabilities for secretarial positions and/or classroom use.
OFAD 240 SHORTHAND ENRICHMENT (GREGG SYSTEM).
Units Class Hours 3 lecture/2 lab hours/week Prerequisites: Ability to take dictation at 40 wpm; enrollment in or completion of OFAD 100 or equivalent, and completion of or enrollment in OFAD 400, English 100 or English 802. Description: Review and update of Gregg shorthand principles
and practice dictation and transcription.
OFAD 300 MACHINE TRANSCRIPTION. Units 2-4
Class Hours 5 lab hours/week Prerequisites Typing speed of 40 wpm; OFAD 400. Description: Develops skill in effective transcription of machine- dictated business communications and efficient use of reference materials, develops familiarization with general business termino- logy, develops proficiency in correct use of punctuation and grammar. Use of audio-visual method of instruction.
OFAD 331 INTRODUCTION TO WORD PROCESSING
CONCEPTS. Units (Grade Option) 1 Class Hours (8 weeks) 2 lecture hours/week Prerequisites: None Description: Historical and current developments in word processing. Methods of communicating, processing, and reproducing

words; electronic filing, retrieving, and distributing documents. W/P centers vs traditional offices contrasted. Necessary planning

to implement W/P centers; methods of evaluating equipment.

OFAD 332 BASIC WORD PROCESSING (WANG SYSTEM).

Prerequisites: ... Passed equivalent of OFAD 400, type 40 wpm.

Description: A "hands-on" introduction to the WANG word

processing system, including formatting, inputting, editing, filing,

retrieving, and printing business documents. May be repeated

3 lab hrs/week

Career paths in field.

once for credit.

OFAD 333 INTERMEDIATE WORD PROCESSING
(WANG SYSTEM).
Units (Grade Option) Class Hours 1.5 lecture/demonstration hours/ 3 lab hours/week
Prerequisites: OFAD 332 Description: Intermediate editing, filing, retrieving, SRCH and REPL, merge, global hyphenation and pagination, super copy and super move, creating wide screen documents, headers and footers, automatic page numbering, dual column, tables, and introduction to glossary. May be repeated once for credit.
OFAD 334 ADVANCED WORD PROCESSING (WANG
SYSTEM). Units (Grade Option) 3
Class Hours 3 lecture/demonstration hours/ 6 lab hours/week Prerequisites: OFAD 333
Description: Course will include glossary, math, sort, reload system, duplicate diskette, compressed diskette, footnotes, setting up files, and supervisory techniques. May be repeated once for credit.
OFAD 400 BUSINESS ENGLISH. Units
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.
OFAD 401 BUSINESS COMMUNICATIONS.
Units 3 Class Hours 3 lecture hours/week
Prerequisites: Completion of or enrollment in OFAD 100, OFAD 400, or completion of English 801 or 802.
Description: Designed to help student become more proficient in written and oral communication. Analysis of the methods of transmitting verbal and non-verbal messages.
OFAD 412 FILING AND RECORDS MANAGEMENT.
Units
Prerequisites: None
Description: Provides fundamentals of electronic records management, including indexing, filing and retrieval of business information; develops skill in alphabetic, numeric, subject, and geographic filing; develops skill in making decisions regarding storage.
transfer, retention.
OFAD 450 THE INTEGRATED OFFICE.
Units Class Hours 1.5 lecture/4 lab hours/week Prerequisites: Proficiency in or completion of OFAD 100, 300,

Proficiency in or completion of OFAL Proficiency tests will be available at the first class meeting.

Description: Variable unit course designed to provide a realistic training environment in which the student will refine word processing skills and/or office administration skills. This will include technological, procedural, decision-making and interpersonal experiences. May also be offered as an open-entry, open-exit

400

A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study, 880 Other Selected Topics; 895 Other Independent Study.

INTERIOR DESIGN

INTERIOR DESIGN
INTD 115 YOUR HOME AND YOUR ENVIRONMENT.
Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Analysis of the home's total environment aesthetical-
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) 3 Class Hours 3 lecture hours/week 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:
Prerequisites: None Description: Mechanical methods of developing working drawings of designs and plans for cabinet-makers, builders, and craftspeople. Course covers freehand rendering and sketching of furniture, fabrics, and accessaries to scale. Perspective 1 and 2 point drawing for presentation; furniture rendering traditional, historic, and contemporary style. 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.
INTD 148 COLOR FOR INTERIORS.
Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: The application of basic color systems to the visual control of interior space. Practice of design principles which govern the use of interior color composition of objects. Relation of color-as-light to color-as-pigment illustrated with structural mater- ials, paints and finishes, furniture, fabrics, lighting, decorative
accessories.
INTD 150 HISTORY OF INTERIORS. Units (Grade Option)
Class Hours
Description: Traces the history of Western man's dwellings 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.
INTD 156 PORTFOLIO/PROJECTS.
Units (Grade Option) 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 (plans, elevations, furniture arrangements) and color-fabric-materials- 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.

INTD 160 DECORATING TECHNIQUES.

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

INTO 170 FABRICS FOR INTERIORS. Units (Grade Option)

Office (Grade Option)	
Class Hours	
Prerequisites: None	
Description: Fabrics for home furnishings will be studied and	
evaluated with emphasis on selection, use, care, and perform-	
ance 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	

INTO 180 CONTRACT DESIGN.

Units (Grade Option)	3
Class Hours	
Prerequisites:	ARCH 110, INTD 147, 260
Description: Study of field of o	contract design from historical and
	inalyzing needs of non-residential
	Project in space planning, interior
landscaping, and all aspects	of design plus data collection,
	enters, paper storage and retrieval,
work flow, human needs, and	barrier-free design.

INTD 245 INTERNSHIP IN HOME FURNISHINGS.

Class Hours 40-80 internship training hours required
Prerequisites: INTD 115, 148
Description: Interior Design students will be placed with cooperat-
ing 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, back-
ground, 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.

INTD 250 PROFESSIONAL PRACTICES.

Office
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.

INTO 260 FUNDAMENTALS OF LIGHTING.

Tills (Credit Offly)
Class Hours (12 weeks)
Prerequisites: None
Description: The aesthetics of lighting will be integrated with the
pasic technical information needed to understand light and its
elationship to the human being and to lighting design. May be
epeated once for credit.

INTD 270 FUNDAMENTALS OF KITCHEN DESIGN.	IN
Units (Credit Only) 3 Class Hours 3 lecture/hours week	Ur
Prerequisites: None	CI
Description: Application of all the basic principles of kitchen design necessary for preparation for the job market. Study of	Pr
floor plans drawn to scale, available products, new design	De
concepts, and colors reflecting individual family needs, work	Ja
habits, and entertaining style to justify the financial expenditure. Class project designing a kitchen. Field trips, guest speakers,	
and visits to homes.	Ur
INTD 271 FUNDAMENTALS OF BATH DESIGN.	CI
Units (Grade Option) 2 Class Hours (12 weeks) 3 lecture hours/week	Pr
Class Hours (12 weeks)	-
Prerequisites: Description: Exploration of the basic principles of bath design	De
including drawing scale floor plans, new design concepts,	ho
product availability and the use of color. Class project and field	ar
trips to product companies are required. INTD 274 PRINCIPLES OF CONSTRUCTION	iso
FOR INTERIOR DESIGN.	fu pr
Units (Grade Option) 3 Class Hours 3 lecture hours/week	ta
Class Hours	IN
Prerequisites: INTD 270, ARCH 100 Description: A complete overview of home construction with	U
special emphasis on remodeling, including basic design mater-	CI
ials, work sequence, vocabulary of building, tools of industry,	Pr
codes, permits, and inspections.	D
Units (Grade Option) 3	ar
Class Hours	H
Class Hours 3 lecture hours/week Prerequisites: INTD 270, 274, or concurrently.	st
Description: Kitchen and bath designs will be developed using creative application of design concepts and principles. Products	m
and materials will be studied for best usage to obtain persona-	
lized spaces. Specialized application of color, finishes, decora-	IN
tive detail, lighting, and plumbing will be covered.	C
INTO 278 MARKETING AND SALESMANSHIP FOR INTERIOR DESIGN.	Pr
Units (Grade Option)	D
Units (Grade Option) 3 Class Hours 3 lecture hours/week	to
Prerequisites None Description: Basic principles of marketing and salesmanship are	et
covered using design principles, floor plans, elevation proce-	de
dures, drawing up agreements and payment schedules for a total	In
presentation to the client. Techniques for approaching a client	m
from inception to completion will be covered in sequence and detail. Class project. Selection of a room and development of a	IN
presentation to class for critiquing.	C
INTO 320 ORIENTAL ART FOR INTERIORS—	Pr
CHINA AND KOREA.	D
Units (Grade Option) 1 Class Hours (6 weeks) 3 lecture hours/week	th
Prerequisites: None	W
Description: Asian art through themes, motif, and methods.	te
Survey of historic and contemporary work, as seen in furniture,	m
wood accessories, fiber, fabric, paper, ceramics, paintings, and prints, domestic architecture and interiors, and use of Oriental	IN
objects from these countries in today's interior design.	U
INTD 321 ORIENTAL ART FOR INTERIORS—	C
JAPAN AND S.E. ASIA.	P
Units (Grade Option) 1 Class Hours (6 weeks) 3 lecture hours/week	fu
Prerequisites:	ha

Prerequisites: None
Description: Study of Asian art and design themes, motifs, and
methods from Japan and Southeast Asia. Study in use of Oriental

art in contemporary interiors.

	INTD 322 ORIENTAL ART FOR INTERIORS—
	INDIA, JAPAN, PHILIPPINES.
	Units (Grade Option)
	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 350, 351 COMMERCIAL DESIGN.
	Units (Grade Option) 3, 3 Class Hours 3 lecture hours/week Prerequisites: INTD 115, 146, 147, 148, 260, 355, ARCH 110;
	Prerequisites: INTD 115, 146, 147, 148, 260, 355, ARCH 110;
	INTD 260 and 355 may be taken concurrently with 350. Description: Experience in designing interiors of multiple unit
	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 presen-
	tation, time/work log.
	INTD 355 COMMERCIAL CONSTRUCTION.
	Units (Grade Option) 3 Class Hours 3 lecture hours/week
	Class Hours 3 lecture hours/week Prerequisites: INTD 115, 146, 147, 148, 260, ARCH 110;
	INTD 260 may be taken concurrently. Description: Solving the practical problems in new construction
	and remodeling pertaining to electricity, reflected ceiling plans,
	HVAC (heating, ventilating, air conditioning), plumbing, building
	standards, basic commercial building codes, permits, cost esti- mating, documentation, bidding, TI (tenant improvements),
	requirements for the handicapped.
	INTD 360 COMPUTERS FOR COMMERCIAL DESIGN.
	Units (Grade Option)
	Class Hours 3 lecture hours/week Prerequisites: INTD 350, 355, BUS. 430,
	or equivalent computer competency
	Description: Experience with personal computers as a business
	tool for interior de4sign, accounting, inventory, client information, etc. Fundamentals of 2-dimensional drafting and architectural
	detailing for space planning. Programming of work sequencing.
	Introduction to 3-D space planning, floor plans, furniture place-
	ment, linear furniture drawing.
	INTD 411 HOME DECORATING.
	Units (Grade Option) 3 Class Hours 3 lecture hours/week
	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.
L	Units (Grade Option)
	Class Hours
	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
1	fixtures, appliances, wall coverings and draperies, Business/
	customer relationships: credit, grievances, legislation, rights and responsibilities.

A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

ITALIAN

A detailed description of the following courses may be found under Announcement of Courses, page 58: 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)
Class Hours
None 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.

JAPA 802 CONVERSATIONAL JAPANESE II.	
Units (Grade Option)	2
Class Hours 3 le	ecture hours/wook
Description: Further work in basic grammar id	ioms and propun-
ciation. (This course will not fulfill language	e 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 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study

times for credit.

JOURNALISM
JOUR 110 INTRODUCTION TO MASS MEDIA.
Units 3 Class Hours 3 lecture hours/week 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 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

JOUR 220 INTRODUCTION TO ADVERTISING. Units

Class Hours
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 manage-
ment 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. Units Class Hours 3 lecture hours/week Prerequisites:

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 communication techniques, and the basic steps in public relations programming.

JOUR 300 NEWSPAPER PRODUCTION. Units Class Hours JOUR 120 (may be taken simultaneously) 3 lab hours/week Prerequisites: Description: Production of the student newspaper and instruction 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 58: 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)	1
Class Hours Prerequisites: 3 lab hours/wee	

Description: A self-paced course designed to familiarize students 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 58: 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)
Class Hours 3 lecture nours/week
Prerequisites:
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.

Units (Grade	Option)			
Clace Hours			3 lecture	hours/week
Class riours			0 100.0.0	None
Prerequisites				NOITE
Description	Introductory course	whereby	students	can experi-
Description.	introductory doctor	undarata	nding of t	ha theories

Description: Introductory course whereby students can experiment 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 110 REPORT WRITING.

Units (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites
Description: A study of the principles of effective communication
n a variety of business, industrial, and governmental applica-
tions; clarity, accuracy, and logic are emphasized in the present-

ation of written, verbal, and statistical materials. MGMT 120 MANAGEMENT COMMUNICATION.

Units (Grade Option) 3 lecture hours/week
Prerequisites
Description: The communication process — both verbal and written. Lectures, discussions, case studies, and oral presentations on such topics as the relationship between communication and
the organizational climate, perception, motivation, and the causes and patterns of barriers to effective communication.

MGMT 130 LABOR RELATIONS FOR MANAGEMENT.

Units (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites: None
Description: Employee/management relations emphasizing: wage
Description: Employee/management relations or propriet to the company of the comp
systems, working conditions, productivity, union organizations,
collective bargaining, and unemployment. Labor/management
conflicts from the point of view of wage earner, employer, general
public and governments

MGMT 136 BUDGET AND PLANNING.

Units (Grade Option)
Class Hours (8 weeks) 3 lecture hours/week
Prerequisites: None
The same is designed to give the management
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, budget-
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, budget-

ing, and evaluating processes within contemporary public and private sector organizations.

MGMT 137 PERFORMANCE MEASUREMENT TECHNIQUES.

Office Conduct Option)
Class Hours (8 weeks)
Prerequisites:
Description: This course is designed to give the management
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 profes-
Comes of periormance appraisant as me

MGMT 215 MANAGEMENT OF HUMAN RESOURCES.

Units (Grade Option)
Class Hours 3 lecture hours/week
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.
appraisals, training and stan development.

MGMT 220 ORGANIZATIONAL BEHAVIOR.

sional growth and development.

Units (Grade Option)
Class Hours
None
Prerequisites: None
Description: Individual motivation, interpersonal communication,
organizational influence, group dynamics and decision making in
the organization; the relationships between culture, structure, and
technology; leadership and the managing of organizational con-
flict.

MGMT 225 OFFICE MANAGEMENT.

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)

Units (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites: None
Description: Designed to improve the student's skill in working
with people. Analysis of the objectives and characteristics of
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.

MGMT 240 ORGANIZATIONAL LEADERSHIP.

Units (Grade Option)
Class Hours 3 lecture hours/week
Class Hours
Prerequisites: None
relegationes
Description: Introduction to the motivational aspects of leader-
ship. Examines how individuals react to different styles of leader-
ship. Examines now individuals react to different styles of leader
ship. Students will examine their own management practices and
Stilp Students will examine their own and
beliefs in order to gain insight into how these might be changed
in order to become more effective. Techniques for assessing
in order to become more elective. Techniques for assessing
organizational climate
organizational cilitate.

MGMT 281 PUBLIC ADMINISTRATION MANAGEMENT.

Units (Grade Option)
Class Hours
Prerequisites: None
Description: Designed to give the student a basic understanding
Description: Designed to give the student a basic understanding
of principles and concepts underlying the organization and

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.

Class Haves
Class Hours
Prerequisites:
Description: Organization and functions of governmental fiscal
administration; financial planning and control; analysis of the
budget and control, analysis of the

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.

A detailed description of the following courses may be found under Announcement of Courses, page 58: 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.

Ohits (Grade Option)
Class Hours
Prerequisites: None
Description: The study of the number systems designed for
prospective elementary education mainter systems designed for
prospective elementary education majors. Emphasis on under-
standing operations with whole numbers, fractions and decimals.
Additional topics may include problem solving strategies, numera-
tion systems and elementary number theory. Meets requirements
of California Administration code of elementary school credential
and/or Liberal Studies credential (multiple subject)
(multiple subject)

MATH 110 ELEMENTARY ALGEBRA

Units (Grade Option)
Class Hours hours work
Prerequisites: Satisfactory score on Math Placement Exam
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.

Lists (O-d)
Units (Grade Option) 3, 3
JIPCHIE DOURS WOOK
Prerequisites: Satisfactory score on Math Placement Evan
Description: These two courses are equivalent to MATH 110.
Recommended for those who have not previously had elementary
algebra.
a good a

MATH 115 GEOMETRY.

Units
Class Hours 3 lecture hours/week
Prerequisites: MATH 110 with grade of C or better, or two 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	
Class Hours	5 lecture hours/week
Prerequisites: MATH 110	with grade of C or better or two
semesters of high school math	with grades of C or better and
	satisfactory score on Math Test

Description: Extension of fundamental algebraic concepts and operations, binomial expansion, solution of linear and quadratic equations individually and in systems, determinants, radical equations, complex numbers, introduction to theory of equations.

MATH 121 INTERMEDIATE ALGEBRA. (Evening only)

Units

Class Hours

3 lecture hours/week
Prerequisites:

MATH 110 with grade of C or better, or two
semesters of high school mathematics with grades of B or better.
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.
Qualifying exam given during first week.

MATH 125 ELEMENTARY FINITE MATHEMATICS.

Units	3
Class Hours	3 lecture hours/week
Prerequisites: MATH 120 or 121 v	with grade of C or better
Description: Introduction to finite mathe	ematics with attention to
set theory, counting theory, probability vector and matrix theory, inequalities a	y, systems of equations,
Qualifying exam given during first week	and inlear programming.

MATH 126 FINITE MATHEMATICS WITH COMPUTER APPLICATIONS

Units	5
Class Hours 5 lecture/1 lab hours/weel Prerequisites: MATH 120 with gade of C or better, or high	k
school equivalent	

Description: A broad survey course of mathematics and computer applications in logic and set algebra, algorithms, counting techniques, probability and statistics, numerical algorithms, linear programming and other applications of matrices. Computer software will be provided to aid in the analysis of these topics.

MATH 130 ANALYTICAL TRIGONOMETRY

Units
Class Hours
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

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. Qualifying exam given during first week.

MATH 200 ELEMENTARY PROBABILITY AND STATISTICS.
Units
Prerequisites: MATH 120 or equivalent with grade C or better, or high school preparation including 1.5 years of algebra with
Description: Treatment of use/misuse of data, measures of
central tendency and dispersion, probability, sampling distribu-

Description: Treatment of use/misuse of data, measures of central tendency and dispersion, probability, sampling distributions, statistical inference, regression and correlation, contingency tables, time series analysis, index numbers. Qualifying exam given during the first week.

MATH 219 PRE-CALCULUS COLLEGE ALGEBRA/ TRIGONOMETRY.

Units
Class Hours
S 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.

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. Qualifying exam given during first week.

MATH 220 PRE-CALCULUS COLLEGE ALGEBRA.

Units
Class Hours
Prerequisites: MATH 130 or equivalent with grade C or 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.

Description: Study of more advanced algebra including such topics as theory of equations, complex numbers, logarithmic and exponential functions, matrices, vectors, binomial theorem, sequences. Qualifying exam given during first week.

MATH 241, 242 APPLIED ANALYTIC GEOMETRY AND CALCULUS.

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 Cor

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. Qualifying exam given during first week.

MATH 251 ANALYTICAL GEOMETRY AND CALCULUS.

Units
Class Hours

S 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

Description: Basic concepts of calculus. Includes plane analytic geometry, differentiation integration, differentials and anti-derivative formulas; application. Qualifying exam given during first week.

MATH 252, 253 ANALYTICAL GEOMETRY AND CALCULUS.

Units 5, 5
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

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 270 LINEAR ALGEBRA.

MAIN 270 ENTEAN ALGEBRA
Units 3
2 leature house/wook
Class Hours 3 lecture hours/week
MATH 252
Prerequisites: MATH 252
Description: Vectors and matrices applied to linear equations and
linear transformations, real and inner product spaces.

MATH 275 ORDINARY DIFFERENTIAL EQUATIONS.

Units	
Class Hours	3 lecture hours/week
Prerequisites:	MATH 253 (or equivalent) with grade C or better.
When approve	ed by the instructor, may be taken concurrently with
mon apple	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	
Class Hours	3 lecture hours/week
Prerequisites:	Satisfactory score on Math Test.
Description: A survey of fraction	ns, reciprocals, similar triangles,
proportions, sine, tangent relati	onships, inverse law and graph-
ing. Qualifying exam given first	week of class.

MATH 811 PRE-ALGEBRA.

Units (Grade Option)	3
Class Hours 3 lecture hours/wee	k
Prerequisites: Nor	ne
Description: Review of the fundamental processes in arithmetic eading mathematical notation; translating words into symbol properties of the real number system. May be repeated up to units.	C; S;

A detailed description of the following courses may be found under Announcement of Courses, page 58: 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

One semester of college chemistry and either Biology 110, 130, Botany 240 or Zoology 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 58: 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.

Offits (Credit Offiy)	3.5
Class Hours Ten 3-hour lecture	s/week
Prerequisites:	. None
Description: How to study a highly technical subject, inc	cludina
skills for making notes during lecture and home study. Le	earning
to listen and read with care for accurate recention of the m	

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 (Grade Option)	
Class Hours	Five 3-hour lectures
Service Service	plus five 3-hour lab/week for 4 weeks
Prerequisites:	Completion of CTEC 400.
Description: Lecture an	d accompanying laboratory work in the
principles and theory o	f the use of resistors, capacitators, and
inductors. An analysis of	of basic circuit connections with applied
DC only, AC only, and I	DC plus AC. Instruction in the use of the
electronic voltmeter, dua	al trace oscilloscope, function generator,
frequency counter, and	other basic laboratory instruments. How
to troubleshoot simple of	

CTEC 440 SEMICONDUCTOR DEVICES AND CIRCUITS.

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 the theory and application of diode 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.

Units	
Class Hours	Five 3-hour lectures
	plus five 3-hour lab/week, for 4 weeks
Prerequisites:	Completion of CTEC 440
	grade of C or better

Description: Study of the truth tables and logical expressions for gate circuits. Interpretation of technical data manuals for functional characteristics of small and medium-scale integrated devices, such as gates, multiplexers, counters, registers, and solid state memory and display. Use of dual trace oscilloscope and logic probe for analysis and troubleshooting.

CTEC 500 MICROPROCESSOR PRINCIPLES.

Units	4
Class Hours	Five 3-hour lectures
plus	five 3-hour lab/week, for 3 weeks
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.

MUSIC

MUS. 100 FUNDAMENTALS OF MUSIC.

Units (Grade Option)
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/wee	k
Prerequisites: Non	e
Description: Music notation, keys, key signatures, intervals, sigh	nt
reading and ear training. Some pianistic ability desirable.	

MUS. 102 MUSICIANSHIP II.

Units (Grade Option)	2
Class Hours	hour/week
Prerequisites:	
Description: Further work on music notation, keys, key intervals, sight reading, ear training.	signature,

MUS. 103 MUSICIANSHIP III.

Units (Grade Option)				. 2
Class Hours	ab	hou	Ir/W	eek
Prerequisites:		ML	JS.	102
Description: Continuation of MUS. 102. Emphas	is	is	on	ear
training and sight reading.				

MUS. 131 HARMONY I.

Units
Class Hours 3 lecture/1 lab hour/week
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	
Prerequisites:	
Description: Further study of chords	and their relation to each

MUS. 133 HARMONY III. Units 3 Class Hours 3 lecture/1 lab hour/week Prerequisites: MUS. 131 Description: Deals with chords of seventh and ninth, altered chords and modulations, and arranging for various vocal and instrumental groups, with some original composition.	MUS. 305, 306, 307, 308 KEYBOARD HARMONY. Units (Grade Option) 2 each Class Hours 3 lecture hours/week Prerequisites: None 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
MUS. 134 HARMONY IV. Units 3 Class Hours 3 lecture/1 lab hour/week Prerequisites: MUS. 133 Description: Continuation of Harmony III, with analysis and	progressions; provides instruction for transposition; and lays foundation for improvisation at the keyboard. Some planistic ability is helpful but not required. MUS. 309 ACCOMPANYING.
MUS. 135 COMPREHENSIVE MUSICIANSHIP. Units (Grade Option) 2 Class Hours 3 lecture hours/week Prerequisites MUS. 131 Description: Ear training and harmonic sriting with emphasis on chord identification through aural dictation and the study of "Root Movement" in European music from 1700-1850.	Units Class Hours Prerequisites: Description: Skills and techniques of playing accompaniments for singers, instrumental soloists and choral groups. Performance is an essential part of this course. May be repeated three times for credit. MUS. 321, 322, 323, 324 BRASS
MUS. 150 COMPOSITION. Units	Units
MUS. 170 JAZZ IMPROVISATION. Units 1 Class Hours 1.5 lecture/1.5 lab hours/week Prerequisites: Ability to play an instrument and read music. Description: Performance and analysis of jazz improvisation.	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; con-
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.	Current 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
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 under- standing and appreciation of the art. A text, illustrated lectures.	Prerequisites: Concurrent enrollment in Band or Orchestra Description: Techniques of playing the instrument of the student's choice with individual instruction. Grades will be determined by jury audition. MUS. 345, 346, 347, 348 ADVANCED WOODWIND
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.	Units
MUS. 295 CONDUCTING. Units Class Hours (6 weeks) Prerequisites: Description: Development or review of conducting techniques with special emphasis on the choral literature. Selected problems	current enrollment in Band or Orchestra. Description: Advanced problems of performance. Literature covered and specific requirments may be obtained from the Humanities Division office. The course is a parallel course to the applied music major study at California State Colleges.
in score reading and interpretation. Survey of publications. MUS. 301, 302, 303, 304 PIANO. Units (Grade Option) 2 each Class Hours 3 lecture/5 lab hours/week Prerequisites: None Description: A course in applied music with stress on technical and interpretive skills. Individual attention and advancement.	MUS. 361, 362, 363, 364 STRING INSTRUMENTS I, II, III, IV. Units

MUS. 365, 366, 367, 368 ADVANCED STRING INSTRUMENTS I, II, III, IV. Units	MUS. 441, 442, 443, 444 ORCHESTRA I, II, III, IV. Units (Grade Option) 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. 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.	MUS. 445 CHAMBER ORCHESTRA. Units (Grade Option) Class Hours Prerequisites: Demonstration of ability by audition. Description: Study and performance of standard chamber orchestra literature and techniques. Performances required. Each semester covers material different from that of the preced-
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.	ing. May be repeated three times for credit. MUS. 461, 462, 463, 464 INSTRUMENTAL ENSEMBLE I, II, III, IV. Units
Units	MUS. 471, 472, 473, 474 CHOIR, I, II, III, IV. Units (Grade Option) 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. 401, 402, 403, 404 SOLO VOICE I, II, III, IV. Units (Grade Option) 1 each Class Hours 3 lecture hours/week 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, I, II, III, IV.	MUS. 481, 482, 483, 484 COLLEGE SINGERS. Units
Units	MUS. 490 MASTER CHORALE. Units (Grade Option) 1 Class Hours 3 lecture hours/week 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 (Grade Option) 2 Class Hours 3 lecture hours/week Prerequisites: Demonstration of ability by audition. Description: Study and performance of music for concert band. Performance is required. May be repeated three times for credit. MUS. 440 SYMPHONY ORCHESTRA.	MUS. 491, 492, 493, 494 ORATORIO CHORUS. Units (Grade Option) 1 Class Hours 3 lecture hours/week Prerequisites: Previous choral experience and demonstrated ability through auditions Description: Rehearsal and performance of oratorios and other
Units (Grade Option) Class Hours Prerequisites: MUS. 325, 345 or 365 or equivalent demonstrated ability. Description: Study and performance of standard symphony orchestra literature and techniques. Performance is required. Each semester covers material differing from preceding semester. May be repeated three times for credit.	choral literature. Performance is required. MUS. 495 MUSICAL THEATRE. Units

MUS. 496 MUSIC RECITALS.

Units (Credit Unity)
Class Hours
Prerequisites: None
Description: Open to all students. A listening course to acquaint
students with musical literature as performed by professional
musicians and advanced students in the area. Music majors are

students with musical literature as performed by professional musicians and advanced students in the area. Music majors are required to complete four semesters. May be repeated three times for credit.

A detailed description of the following courses may be found under Announcement of Courses, page 58: 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

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.

Units (Grade Option) 3	1
Units (Grade Option) 3 Class Hours 3 lecture hours/week	(
Prerequisites: None	F
Description: Chemical and biological history of the oceans.	E
currents, waves, tides and coastal processes. Origin and evolu-	(
on of the oceans and ocean basins with emphasis on recent	
discoveries in continental drift and sea floor spreading.	0

A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

OFFICE ADMINISTRATION

See INTEGRATED INFORMATION PROCESSING

OPHTHALMIC DISPENSING

OPTH 400 INTRODUCTION TO OPHTHALMIC OPTICS.

Units	
Class Hours	3 lecture hours/week
Prerequisites:	 Concurrent enrollment in
a second	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.

OPTH 411 OPHTHALMIC LAB TECHNIQUES I.

Units	1
Class Hours	
Prerequisites:	None
Description: The finishing proced	ures in producing a pair of

Description: The finishing procedures in producing a pair of spectacles will be covered. The laboratory glazing and bench alignment. Finally, ANSI standards and prismatic problems are introduced. Each student is expected to complete 25 pairs of spectacles for grading. Field trips may be required.

OPTH 412 OPHTHALMIC LAB TECHNIQUES II.

011115
Class Hours
Prerequisites: OPTH 411
Description: This course combines the theory of lens surfacing
with the practice of layout of semi-finished blanks and the edging
of finished multi-focal lenses. The concept of prism is empha-
sized to insure a thorough understanding of the mechanics of
lens construction. Field trips may be required.

OPTH 431 OPHTHALMIC LENSES.

Units

may be required.

Class Hours 3 lecture hours/week
Prerequisites: None
Description: An introduction to the manufacture of glass and hard resin, plus the mathematical computations of lens construction.
Properties, specifications, and uses of single vision and multifo- cal lenses will be introduced. Special lens types, i.e., lenticulars,
aspherics, absorptive lenses, and myodiscs are described to
provide a basis for the following dispensing courses. Field trips

OPTH 441 OPHTHALMIC FABRICATION.

Units	
Class Hours	1 lecture, 3 lab hours/week
	OPTH 411 or 412
	expose the student to the greater
	ents. Rimless, semi-rimless, tension
	vill be used. Dyeing of plastic lenses
	metal frames will be introduced in
preparation for dispensing te	echniques

OPTH 460 ANATOMY AND PHYSIOLOGY OF THE EYE.

Class Hours
Prerequisites: None
Description: This course deals with anatomy of the eye: a study of
vision, its chemistry, media, neurology and musculature. An
introuduction to pharmacology and related systemic diseases will
be covered. This course is a necessary prerequisite to contact lenses.

OPTH 471 OPHTHALMIC DISPENSING TECHNIQUES I.

Units		3-5
Class Hours		2 lecture, 2 lab hours/week
Prerequisites:	Must be combined w	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.

Class Hours
Prerequisites: OPTH 471
Description: The first part of the course concludes advanced
theory and techniques, proceeds to specialty subjects and
concludes with business and ethical aspects of Opticianry.
Semi-formal round table discussions occur. May be repeated
once for credit

OPTH 491 CONTACT | FINSES I

Units

Units
Class Hours
Prerequisites: OPTH 460
Description: This course presents the introductory material for
contact lens fitting. Nomenclature, manufacture, tolerances, clini-

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
OPTH 690 RESEARCH PROJECTS.
Units
OPTH 710 BASIC CONTACT LENSES.
Units
A detailed description of the following courses may be found under Announcement of Courses, page 58: 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
Prerequisites: None Description: An introductory ecological approach to the changing parade of life and ancient environments through the past 3.5

A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

billion years of Earth history; and collecting, preparing, analyzing

PARALEGAL

See BUSINESS 250-259

and interpreting a fossil marine fauna.

PHILOSOPHY

PHIL 100 INTRODUCTION TO PHILOSOPHY.
Units (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites: None
Description: Survey of ideas and issues which traditionally
concern philosophic minds. Emphasis on doing philosophy as a
means of understanding it. Critical evaluation of such philosophi-
cal topics as: Values and ethics, logic, political ideologies
human existence, science and religion, cosmology, and know-
ledge.

PHIL 103 CRITICAL THINKING.
Units 3 Class Hours 3 lecture hours/week Prerequisites: None
Description: Course is designed to improve the student's general reasoning skills. Techniques will be introduced to facilitate the recognition of arguments from various types of discourse, to distinguish valid from invalid arguments; sound and unsound arguments; structure of arguments; and informal logical fallacies. Many arguments will be taken from the mass media, including videotapes and newspapers.
PHIL 160 HISTORY OF PHILOSOPHY —
Units (Grade Option)
Prerequisites: None Description: History of Western Philosophy from ancient to 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)
Class Hours
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 3 lecture hours/week 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 Class Hours 3 lecture hours/week Prerequisites: None Description: Critical study of the conditions of clear statements;
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 3 lecture hours/week Prerequisites: None

Description: Theories of the good life and moral obligation and

their application to problems of individual and social behavior. Theories include: Epicureanism, Stoicism, and Hedonism; Plato and Aristotle; Augustine; Kant; Utilitarianism; and Relativism.

PHIL 300 INTRODUCTION TO WORLD RELIGIONS.

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

Description: A study of the great religions of the world; their cultural background, tenets, practices, literature and art, and their impact on society and culture. Covers the development of religious ideas, the western religions, and the eastern religions.

PHIL 310 PHILOSOPHY OF RELIGION. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites None Description: Investigation of questions arising in the tradition: Religious scepticism, nature of God, revelation, miracles, faith, mystical experience; the problem of evil; death and immortality
PHIL 320 ASIAN PHILOSOPHY. Units (Grade Option) 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 58: 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

ADAD SEO	ADADTIVE	CENEDAL	CONDITIONING
MUMP 33U	MIJMPIIVE	DEBLEME	COMDITIONING.

Units (Grade Option)	
Class Hours	
	Verification of limiting condition on file.
each student's needs.	xercise programming designed to meet Stretching exercises, light weights, a variety of adaptive equipment are used

ADAP 351 WEIGHT TRAINING FOR THE PHYSICALLY LIMITED.

Units (Grade Option) 0.5-	15
Class Hours	eek
Prerequisite: Verification of limiting condition on	file
Description: Use of the Universal gym and other free weight	s to
increase overall strength and flexibility	

ADAP 352 FITNESS AND MOTOR TRAINING FOR THE

	VELOPMENIALLY DISABLED.
Ur	nits (Grade Option) 0.5-1
Cli	ass Hours
Pre	erequisite: Verification of developmental disability on file.
De	escription: A variety of movements, games, and activities
qe	ared toward the development of motor coordination and
im	provement of physical fitness

ADAP 353 FITNESS FOR THE DISABLED OLDER ADULT.

ADAF 333 FITHESS FOR THE DISABLED OLDER ADDE.
Units (Grade Option)
Class Hours 2 lab hours/week
Prerequisite: Verification of limiting condition on file.
Description: Instruction in safe stretching exercises designed to
sustain or improve flexibility, circulation, and muscular endur-
ance. Relaxation, proper breathing and posture, and group
and the second of the second o

games and activities are included. This course is designed for/ off-campus health care facilities.

ADAP 354 ADAPTIV	E AQUATICS.
Units (Grade Option)	0.5
Class Hours	3 lab hours/weel
Prerequisite:	Verification of limiting condition on file
Description: Allows for	r physically limited students to participate in
an aquatics environm	ent for both exercise and basic swim skil
instruction.	

AQUATICS

AQUA 100 BEGINNING/INTERMEDIATE SWIMMING.
Units (Grade Option)
Class Hours
Prerequisites: None
Description: Instruction in water adjustment, treading, floating,
breathing techniques, crawl, breaststroke, sidestroke, back-
stroke, and elementary diving; also personal water safety proce-
dures. Class is divided by levels of ability.

COMBATIVES

COMB 401 SELF DEFENSE I.
Units (Grade Option)
Class Hours 3 lab hours/week
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 58: 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. Units (Grade Option)
Description: Basic modern dance techniques, ballet techniques
for proper body alignment, balance, flexibility and rhythmic coordination. Emphasis on movement technique and simple combinations.

Prerequisites:

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: Da	ANC 112 or equivalent.
Description: Synthesis of previous dance	experience. Advanced
modern technique, group improvisations	and repertory experi-
ence.	

DANC 130 INTRODUCTION TO JAZZ.	
Units (Grade Option) 2 Class Hours 4 lab hours/week Prerequisites: None Description: Designed for the student who has had no dance. It will provide the student with basic movement techniques, isolation of body parts, and an introduction to jazz dance and music.	
DANC 131 BEGINNING JAZZ.	
Units (Grade Option) 1 Class Hours 2 lab hours/week Prerequisites: None Description: Elementary jazz techniques, foot and leg development, isolation of body parts and a rhythmic appreciation of jazz musicians and music.	
DANC 132 BEGINNING/INTERMEDIATE JAZZ.	
Units (Grade Option) 2 Class Hours 4 lab hours/week Prerequisites: None Description: Continuation of Beginning Jazz with emphasis on additional techniques and more lengthy jazz combinations.	
DANC 140 BALLET.	
Units (Grade Option) 1–1.5 Class Hours 2–3 hours/week Prerequisites: None Description: Beginning techniques of classical ballet are studied and executed. Movement skills, body alignment and placement, rhythmic structures, qualities of movement, and the classical 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.	
Units (Grade Option) 1 Class Hours 2 lab hours/week 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 Class Hours 2 lab hours/week Prerequisites: None Description: Warm up, toning exercises, vigorous dance sequences, 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 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

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 140 EXERCISE APPRECIATION I. Units (Grade Option) 1.5 Class Hours 3 lab hours/week Prerequisites: None Description: A basic conditioning course: Progressive exercise plans are offered that involve strength, endurance, flexibility, coordination, balance and agility. Tests and evaluation are affiliated with the Cañada Fitness Institute.
FITN 161 WOMEN'S CONDITIONING I. Units (Grade Option) 1.5-2.5 Class Hours 5 lab hours/week Prerequisites: None Description: Course is designed to foster understanding and development of physical fitness. Appropriate tests are offered to identify needs and ability levels; all programs are presented on a "progressive" basis. Emphasis is placed on activities related to cardio-respiratory endurance, flexibility, agility and strength. Walking, jogging, rope skipping, basic weight conditioning, interval training, circuit work, and continual rhythmic activities are included.
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 offerred are related to upper shoulder, chest, back, stomach, knees, calves, ankles and toes. The high intensity approach will be used.

Students must fulfill the minimum required lifting standards.

Units (Grade Option) 1–1.5
Class Hours 2 or 3 lab hours/week
Prerequisites: None
Description: Emphasis on development of all general body areas.

Both lower and upper body lifts are imparted. Special emphasis

is placed on proper lifting form, breathing and safety procedures.

Student measurements taken both at the beginning and end.

FITN 201 BEGINNING WEIGHT CONDITIONING.

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 development in various weight conditioning exercises. Opportunities granted to specialize in different areas of the body. Development of individual programs encouraged.	Units (Grade O Class Hours Prerequisites: Description: Be rules, etiquette grip, position, selected irons a some activity in
Units (Grade Option) Class Hours Prerequisites: 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 cardiorespiratory 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	INDV 164 INTE Units (Grade O Class Hours Prerequisites: Description: Exi Golf; consider aspects of golf Sessions are o golf course.
FITN 430 CAÑADA 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.	Units (Grade O Class Hours Prerequisites: Description: Co who wish to di Instruction in the to improve golf be a major par
FITN 431 CAÑADA 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. Students must reach the 50th percentile in the test battery	Units Class Hours Prerequisites: Description: Of ophy of four-wa cardiovascular quickness. Clast transportation. INDV 251 BEG
prior to enrolling in FITN 432. 15 different tests are offered. A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education, 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.	Units (Grade O Class Hours Prerequisites: Description: Ba hand and bac scoring system doubles. Some semester. Majo
INDIVIDUAL SPORTS INDV 121 BEGINNING BADMINTON. Units (Grade Option)	Units (Grade O Class Hours Prerequisites: Description: De beginning tenn ground strokes system, tennis included. Drills semester. Majo

INDV 124 INTERMEDIATE/ADVANCED BADMINTON.

doubles will be offered.

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

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. Tournnament play for both singles and

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 222 RACQUETBALL. Units

BEGINNING TENNIS. ade Option) 1.5 on: Basic fundamentals of tennis. Instruction on forebackhand ground strokes, serve and volley. Rules, stem, tennis etiquette and basic tactics of singles and Some competition included toward the end of the Major emphasis on individual improvement.

BEGINNING/INTERMEDIATE TENNIS. ade Option) 1.5 urs 3 lab hours/week ites: INDV 251 on: Designed for students with at least one semester of

tennis. Basic instruction on forehand and backhand trokes, serve, volley, lob and smash. Rules, scoring ennis etiquette and basic tactics of singles and doubles Drills and match play will be included throughout the semester. Major emphasis on individual improvement.

INDV 253 INTERMEDIATE TENNIS. Units (Grade Option)
Class Hours

3 lab hours/week
INDV 251 or 252 Description: Designed for student with prior tennis experience. All strokes and shots presented including forehand and backhand ground strokes, serve, volley, lob, and smash. Intermediate instruction in singles and doubles play. Individual improvement will be the major emphasis.

Units (Grade Option) 1.5	THEORY
Prerequisites: 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.	P.E. 115 INTRODUCTION TO ADAPTIVE PHYSICAL EDUCATION. Units (Grade Option) Class Hours Prerequisites: Description: Designed to provide a working knowledge of numerous disabilities and current adaptive physical education
INDV 255 ADVANCED TENNIS. Units (Grade Option)	techniques for students interested in pursuing a career in adaptive physical education, physical therapy, special education, or any other health-related field.
Description: Class is designed for students with advanced tennis skills. Students should not have major fundamental weaknesses. 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.	P.E. 116 ASSISTING IN ADAPTIVE PHYSICAL EDUCATION. Units (Grade Option) 0.5–1.5 Class Hours 1 to 3 lab hours/week Prerequisites: None Description: Practical experience gained through assisting in any
Units (Grade Option)	of the adaptive physical education classes. P.E. 200 INTRAMURALS.
Prerequisites: Description: Course is designed for men and women of expert tennis ability who wish to develop their tennis skills in daily workouts of 1.5 hours duration. Students will be instructed in the	Units (Grade Option) 0.5–1 Class Hours 2 lab hours/week Prerequisites: None Description: A student may earn one-half to one unit of credit for specified activities.
fundamentals as needed and put through many drills designed to improve their tennis skills. Conditioning and strategy will also be a major part of this course.	P.E. 300 TECHNIQUES OF COACHING BASEBALL. Units
INDV 257 TOURNAMENT TENNIS. Units (Grade Option) 1.5 Class Hours 3 lab hours/week Prerequisites: Demonstrated skill. Description: Class is designed for student with prior tennis experience. Fundamental instruction of skills and tactics present.	Class Hours 1 lecture; 2 hours/week Prerequisites: None Description: An introductory course designed to teach the fundamental skills involved in the playing of baseball. Basic strategy of play and tactics, as well as structural analysis and execution, will be presented.
often and drills will be structured as weaknesses become	TEAM SPORTS
apparent.	TEAM 101 BEGINNING BASEBALL.

Prerequisites: Description: An orientation course dealing with the beginning concepts of gymnastics. Includes side horse, long horse, horizontal bar, parallel bars, balance beam and free exercise.

INDV 302 INTERMEDIATE GYMNASTICS.

Units (Grade Option) 1.5
Class Hours 3 lab hours/week
Prerequisites: INDV 301 or demonstrated skill. Description: This course provides opportunities for an intermediate level of movement and routines on all Olympic gymnastic events plus the trampoline.

INDV 303 ADVANCED GYMNASTICS.

Units (Grade Option) 1.5
Class Hours 3 lab hours/week
Prerequisites: INDV 302 or demonstrated skill. Description: Course is designed to offer novice competition level of gymnastics on all Olympic gymnastic events plus the trampo-

A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

Units (Grade Option) Class Hours 3 lab hours/week Prerequisites: Description: Course offers fundamentals of baseball, with skills combined with game situations. Emphasis will be placed on individual skills and the associated game rules. A testing program will include material on all skills taught and the playing rules.

TEAM 102 INTERMEDIATE BASEBALL. Prerequisites: TEAM 101 or TEAM 151 or demonstrated

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.

Class Hours 6 lab hours/week Prerequisites: 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.

The state of the s	
TEAM 111 BEGINNING BASKETBALL. Units (Grade Option)	TEAM 153 ADVANCED SOFTBALL. Units (Grade Option) 2.5 Class Hours 4.5 lab hours/week Prerequisites: TEAM 152 or demonstrated skill. Description: This course is designed for students already proficient in softball skills. Opportunities will be provided to play and develop advanced techniques of softball play. Emphasis will be placed on game strategies, rules, and advanced execution in game and tournament play. TEAM 170 BEGINNING VOLLEYBALL. Units (Grade Option) 1-1.5 Class Hours 2 or 3 lab hours/week Prerequisites: None Description: Course provides instruction in the basic fundamentals 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
rules and skills taught. TEAM 141 BEGINNING SOCCER. Units (Grade Option)	robin schedule are provided. TEAM 171 INTERMEDIATE VOLLEYBALL. Units (Grade Option)
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 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.
TEAM 143 ADVANCED SOCCER. Units (Grade Option) 1–1.5 Class 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.	Considerable tournament competition provided. A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study. INTERCOLLEGIATE
TEAM 151 BEGINNING SOFTBALL. Units (Grade Option) 2.5 Class Hours 4.5 lab hours/week Prerequisites None Description: A course which offers instruction in the basic fundamentals of softball play. Students participate in both round robin and tournament schedules. Beginning skills are taught and play situations expanded. Slow pitch receives the major emphasis, but fast pitch may be offered. TEAM 152 INTERMEDIATE SOFTBALL.	VARS 100 VARSITY BASEBALL. Units
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.	Units Class Hours

VARS 110 VARSITY BASKETBALL	
Units Class Hours 9 lab hours/weel	2
Prerequisites: Demonstrated competence	(
Description: Intercollegiate varsity basketball competition in the	
Golden Gate Conference and participation in regional tourna-	
ments.	
VARS 111 BASKETBALL CONDITIONING.	
Units	
Class Hours Prerequisites: Must be talked 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	
cardio-vascular development as they precisely apply to basket- ball.	
VARS 120 VARSITY CROSS COUNTRY.	
Units	
a lab bourghands	
Demonstrated ability	
Description: Intercollegiate competition in the Golden Gate Coa	
leferice and participation in dual meets invitationals leaves	
meet, and Northern California and State Championships as qualified.	
quaineu.	
VARS 121 CROSS COUNTRY CONDITIONING.	
Units	
Glab hours had	
Description: A conditioning course specifically related to Versite	
Cross Country. Area of emphasis will be strength, flexibility and cardiovascular development as they precisely apply to cross country.	
VARS 140 VARSITY GOLF.	
Units 2 Class Hours 9 lab hours/week	4
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 participate	1
in the Northern California and State Championships as qualified.	
Vancous and State Championships as qualified.	1
VARS 141 GOLF CONDITIONING.	1
Units	6
Class Hours Prerequisites: Must be taken concurrently with VARS 140. Description: A conditioning course specifically related to Varsity	L
Golf. Area of emphasis will be strength, flexibility and cardio- vascular development as they precisely apply to golf.	1
VARS 150 VARSITY SOCCER.	
Units	ı
Prerequisites: 9 lab hours/week	F
Description: Intercollegiate competition with four-year institutions and junior colleges in Northern California. League competition in the Golden Gate Conference.	UOF
VARS 151 SOCCER CONDITIONING.	Ca
Units	n
6 lah hours/wook	1
Description: A conditioning course specifically related to Versit	AUE
Soccer. Area of emphasis will be strength, flexibility and cardio- vascular development as they precisely apply to soccer.	11/11

VARS 170 VARSITY TENNIS.
Units
VARS 171 TENNIS CONDITIONING.
Units Class Hours 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 cardio- vascular development as they precisely apply to tennis.
VARS 320 WOMEN'S VARSITY SOFTRALL
Units Class Hours Prerequisites: Description: Intercollegiate competition in the Golden Gate Conference and participation in regional tournaments.
VARS 321 WOMEN'S SOFTBALL CONDITIONING
Units
VARS 340 WOMEN'S VARSITY VOLLEYBALL.
Class Hours Prerequisites: Description: Intercollegiate competition in the Golden Gate Conference in volleyball. Competitive schedule will include practice daily and competitive games and tournaments.
VARS 341 WOMEN'S VOLLEYBALL CONDITIONING.
Office

A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

PHYSICAL SCIENCE

PSCI 1	01 MATTER AND E	NERGY.	
Class L	loure	6	
Prerequ	isites:		3 lecture hours/week
and ene	don. An introduction	these laws in the	e basic laws of matter
1 2000	1-4 4		

A detailed description of the following courses may be found under **Announcement of Courses**, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

PHYSICS

PHIOLO
PHYS 115 ELEMENTARY ELECTRONICS.
Units Class Hours 3 lecture hours/week Prerequisites: ELEC 100 or equivalent. Description: A survey of electronic circuitry using active devices including semi-conductors, vacuum tubes and printed and integrated circuits.
PHYS 120 SPACE, TIME AND RELATIVITY.
Units Class Hours Observed in reading. Description: A non-mathematical survey of modern physics, with particular emphasis on Einstein's Theories of Relativity and on Quantum Mechanics, the new theory of the atom. Students will be led to an examination of the interaction of physics with the humanities, focusing on modern novels by Durrell, Pynchon and others.
PHYS 210, 220 GENERAL PHYSICS LECTURE.
Units Class Hours 3 lecture hours/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 210, 220 GENERAL PHYSICS LABORATORY. Units (Grade Option)
PHYS 250, 260, 270 GENERAL PHYSICS.
Units (Grade Option) 4, 4, 4 Class Hours: 3 lecture, 1 recitation, 2 lab hours/week 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 Class Hours Prerequisites: 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 Class Hours 2 lecture, 3 lab hours/week Prerequisites: 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 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

PHYSIOLOGY

PSIO 260 HUMAN PHYSIOLOGY.

Units			5
Class Hours	3 lecture, two	3-hour	labs/week
Prerequisites: One course s	selected from	Biology	110, 130,
Anatomy 250, Zoology 210, know	wledge of eler	nentary	chemistry
and physics	ic rocommono	lad ISn	ring only)

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 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

POLITICAL SCIENCE

PLSC 110 CONTEMPORARY FOREIGN GOVERNMENTS.

Units (Grade Option)	3
Class Hours	lecture hours/week
Prerequisites:	None
Description: The historical development and	contemporary poli-
tics of significant foreign governments. Analy	sis and comparison
of major forces and trends in Great Britain, F	rance. Germany, the
Soviet Union, China, Japan and Mexico. Atte	ntion will be devoted
to current issues.	teres of the second second
to dantin location	

PLSC 150 INTRODUCTION TO POLITICAL THEORY.

Units (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites: None
Description: Traditional concepts of political thought, such as authority, community, freedom, and obligation, are explored as
they bear on current issues. A comparative study is made of contemporary political ideologies, such as nationalism, fascism,
communism, and capitalist and socialist versions of democracy.

PLSC 205 AMERICAN SOCIETY.

Units (Grade Option)	
Class Hours	5 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 with what they find and study in the U.S., looking for similarities and differences. (Fulfills American Institutions requirement and State and Local Government requirement.)

PLSC 210 AMERICAN POLITICS. Units (Grade Option)
Class Hours 3 lecture hours/week Prerequisites: None 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.
Units (Grade Option) 3 Class Hours 3 lecture hours/week 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 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
PSYCHOLOGY
PSYC 100 GENERAL PSYCHOLOGY.
Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Introduction to psychology, including principles of learning, theories of personality, tests and measurements, behavioral disorders, mental health, developmental aspects of individuals, and social psychology Experimental design and research data.
PSYC 105 EXPERIMENTAL PSYCHOLOGY.
Units (Grade Option) Class Hours 3 lecture hours/week Prerequisites: Psychology 100 Description: Scientific inquiry into human and animal behavior utilizing experimental methodology. Development of skills in collection and analyzing data from human and animal subjects with laboratory apparatus. Professional journal format for experimental reports.
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 principles to problems of every-day life rather than a technical/scientific approach.
PSYC 110 COURTSHIP, MARRIAGE AND THE FAMILY.
Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Focus on marriage as a personal and probable event for student Courtship; personality and adjustment in marriage; parenthood, divorce; mate-selection; love; family; anato- mic, physiologic, psychologic, and sociologic aspects of sex; children; religious factors; marriage as social institution and

children; religious factors; marriage as social institution and

personal commitment.

PSYC 201 CHILD DEVELOPMENT. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites. None
Prerequisites: None 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) 3 Class Hours 3 lecture hours/week
Prerequisites: None Description: An exploration of the behaviors, values and complexities of the adolescent years. Designed to be of value to persons seeking to understand the changes that occur in physical, emotional, mental, and social development during adolescence.
PSYC 210 EARLY CHILDHOOD EDUCATION PRINCIPLES.
(Also ECE.210) Units (Grade Option) 1–3
Units (Grade Option) 1–3 Class Hours 3 lecture hours/week
Prerequisites: None Description: Overview of the nature and goals of Early Childhood
Education. Awareness of historical perspective Exploration of various program models in ECE. Qualifications and training of teachers of young children. Issues in ECE and potential future trends.
PSYC 211 EARLY CHILDHOOD EDUCATION CURRICULUM.
(Also ECE. 210) Units (Grade Option) 1–3 Class Hours 16–48 lecture hours/semester
Class Hours 16–48 lecture hours/semester
Prerequisites. None Description: Development of goals and objectives lead to the
selection and managment of activities for young children. Foster skills in providing quality learning experiences. Appreciation of
the value of children's play. Development of appropriate curriculum evaluation methods.
PSYC 212 CHILD, FAMILY, AND COMMUNITY.
(Also ECE. 212) Units (Grade Option) Class Hours 3 lecture hours/week
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 child rearing. Resources and community agencies available to children and families. Examination of contemporary factors influencing communities.
PSYC 221 THE SPECIAL CHILD
Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None, PSYC 201 suggested
Prerequisites: None, PSYC 201 suggested Description: Survey course emphasizing descriptive and diagnose

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 con-

Units (Grade Option)
Class Hours
Prerequisites:
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.

cerning educational and community programs.

PSYC 223 INFANT BEHAVIOR.

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.)	Prerequisites: Acceptance in the Radiologic Technology Program. Description: Orientation to Radiologic Technology including hospital organization, medical ethics, economics, political and social influences on radiologic technology. Introduction to radiographic equipment and processing. RADT 410 RADIOGRAPHIC POSITIONING. Units
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. 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.	Class Hours
PSYC 340 PSYCHOLOGY OF HUMAN SEXUALITY. Units (Grade Option) 1.5–3 Class Hours 24-28 lecture hours/semester Prerequisites: None Description: Course covers the psychological aspects of human 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.	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 420 PRINCIPLES OF RADIOGRAPHIC EXPOSURE.
PSYC 370 INTRODUCTION TO COUNSELING. (Also ADMJ 370) Units (Grade Option)	Units Class Hours (8 weeks) Prerequisites: RADT 410 with grade of C or better and PHYS 405 with grade of C or better. Description: Application of radiation physics to the exposure of X-ray film; technique formulation including the use of photo-timers as well as manual techniques. Geometric factors and radiographic accessories will be demonstrated.
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.) Appreciation of the differences between mothers and fathers. Emphasis on adjustment to parenthood and guide- line for meeting the needs of young children. Recommended	Prerequisites: Completion of RADT 418, concurrent enrollment in RADT 420. Description: Clinical education continues with the addition of practice in use of radiographic technique. One hour film critique each week.
PSYC 480 PARAPSYCHOLOGY. Units (Grade Option) Class Hours Percequisites: 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 unexplain-	RADT 430 RADIATION HEALTH AND PROTECTION. Units
able. Special emphasis on current trends. The history of psychic phenomena as well as present developments in laboratory and field research. RADIOLOGIC	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.
TECHNOLOGY RADT 400 ORIENTATION TO RADIOLOGIC TECHNOLOGY. Units	Description: Clinical education for Radiologic Technology stu- dents. Practical experience continues to build students' expertise in performance of radiographic procedures. Emphasis is on total integration of positioning, protection and technique formulation. One hour film critique each week.

RADT 440 ADVANCED TECHNIQUES.
Units Class Hours 3 lecture hours/weel Prerequisites: RADT 410, 420, and 430
with grades of C or better Description: Application of basic technical and positioning know ledge to special procedures and care of the patient undergoing such procedures. Appropriate pathology encountered in special procedures is discussed.
Units (Credit/No Credit)
Class Hours: 30 hours/week clinical education in affiliated hospitals (total 18 weeks) Prerequisites: Completion of RADT 438 Description: Continued practical application of radiographic principles with emphasis on special procedures. Students will be required to have limited experience on weekends and/or evening shifts to gain confidence and proficiency. One hour film critique each week.
RADT 458 CLINICAL EDUCATION V.
Units (Credit/No Credit) Class Hours: 30 hours/week clinical education in affiliated hospitals (total 15 weeks). Prerequisites: Completion of RADT 448 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 licensus the state of the control of the cont
sure by the State of California. One hour film critique each week.
RADT 495 NURSING FOR RADIOGRAPHERS. Units 2 Class Hours 2 lecture hours/week 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 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.
REAL ESTATE
R.E. 100 REAL ESTATE PRINCIPLES.
Units (Grade Option) Class Hours Prerequisites: 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) 3 Class Hours 3 lecture hours/week Prerequisites: R.E. 100 Description: Comprehensive presentation of real estate broke- rage skills in the State of California with emphasis on the daily activities of salesmen and brokers. (Meets the State requirements for the broker's examination.)

RUSSIAN

HOSSIAN	
RUSS 110 ELEMENTARY RUSSIAN	
Units Class Hours	5 lecture hours/week
Prerequisites: Description: Study of and practice patterns of Russian; development of a learning and using vocabulary of his simple Russian texts. Students are listening facilities in the language lab	in the basic forms and satisfactory pronunciation; igh frequency; reading of urged to make use of the
RUSS 111 ELEMENTARY RUSSIAN	l.
Units Class Hours Prerequisites:	3 lecture hours/week
Description: Approximately half of the 110 is covered in this course. Recom	semester's work in Russian mended for those students

RUSS 112 ELEMENTARY RUSSIAN II.

without any background in foreign language study.

The state of the s
Units
Olandila
Class Hours 3 lecture hours/week
Drawn inter-
Prerequisites: RUSS 111
Description Association of
Description: Approximately the second half of the semester's
work in Dunning 110 is
work in Russian 110 is covered. (Russian 111 and 112 are
equivalent to Russian 110.)
equivalent to nussian 110.)

RUSS 801 CONVERSATIONAL RUSSIAN I.

Units (Grade Option)
Class Hours
Prerequisites: None
Description: A practical course in the Russian language, approached by way of conversation. Intensive drills in the formulas and idioms of daily speech; supported by an introduction to
basic grammar. (This course will currently not satisfy language requirement at transfer institutions.)

RUSS 802 CONVERSATIONAL RUSSIAN II.

Units (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites:
Description: Further drill in the patterns and idioms of daily
speech, with support by further work in basic grammar (This
course will currently not satisfy language requirements at transfer institutions.)

A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

SECRETARIAL/CLERICAL/ WORD PROCESSING

See INTEGRATED INFORMATION PROCESSING

SOCIAL SCIENCE

SOSC 100 SURVEY OF THE SOCIAL SCIENCES.
Units (Grade Option)
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 computerization and technology.

Prerequisites:

SOSC 122 SOCIAL SCIENCE RESEARCH METHODS. Units (Grade Option) 3 Class Hours 3 lecture hours plus lab/week Prerequisites: 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. Hands-on computer experience. SOSC 200 INTRODUCTION TO COMMUNICATION SKILLS. Units (Grade Option) 1–3 Class Hours 16–48 lecture hours/semester Prerequisites None Description: Development of individual and small group communication skills. Topics include active listening, listening barriers, rapport, non-verbal communication, role playing, and responding to stress situations. SOSC 250 MEXICAN-AMERICAN CULTURE. Units (Grade Option) Class Hours 3 lecture hours/week None Description: Study of contemporary Mexican-American community including its political and cultural heritage, social structures, problems, movements, and creative contributions. (Fulfills Ethnic Studies requirement.) SOSC 260 AFRO-AMERICAN CULTURE. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: Description: Contemporary view of Black America. Concerned with current political and social movements in Black communities. The Black family is examined, and the culture of the Black community is studied from present and historical perspective (Fulfills Ethnic Studies requirement.) SOSC 392 FAMILY LIFE CYCLE. Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: 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 SOSC 801 CURRENT AFFAIRS. Units (Grade Option) 0.5–2 Class Hours 8 hours per each 0.5 unit Prerequisites: 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

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.)

A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

Independent Study; 880 Other Selected Topics; 895 Other Independent Study.	
SOCIOLOGY	
SOCI 100 INTRODUCTION TO SOCIOLOGY. Units (Grade Option) Class Hours Prerequisites: 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 101 SURVEY OF THE CRIMINAL JUSTICE SYSTEM IN AMERICAN SOCIETY. (Also ADMJ 101) Units (Grade Option) Class Hours 3 lecture hours/week	f 1
Prerequisites: Description: History and philosophy of criminal justice in America identification of the justice system's component parts and their interrelationships, and the effect of social change on the criminal justice system. An in-depth study of the functions and responsibilities of each sub-system of criminal justice (police, courts corrections), and a study of the legal standards, social responsibilities, and ethics of each subsystem which guide the process of serving justice.	r II
Units (Grade Option) Class Hours Prerequisites: Description: Historical development, philosophy of law and constitutional provisions; definitions, classification of crime, and their application to the system of administration of justice; legal research, study of case law, methodology, and concepts of law as a social force.	k e - r
SOCI 105 SOCIAL PROBLEMS. Units (Grade Option) Class Hours 3 lecture hours/wee Prerequisites: None Description: Examination of selected social issues viewed in relation to changes going on in society. Includes poverty, aging health care, corporate power, and work. Emphasis on social science research and theory.	k e n
Units (Grade Option) Class Hours Prerequisites: Description: Introduction to the field of gerontology. Establishe perspectives on aging in our society, and examines the elderly a population group with emphasis on physical, psychological an sociological aspects of the aging process and the effect of service to the elderly.	e s s
Units (Grade Option) Class Hours Prerequisites: Description: Survey course examining various aspects of juvenil crime. Review and analysis of various explanations of delinquet	e

crime. Review and analysis of various explanations of delinquent

behavior; survey and critique of the juvenile justice system; examination of selected agencies such as police, probation departments, juvenile courts, juvenile halls, state institutions, and

private youth-service agencies.

SOCI 141 MINORITIES IN AMERICAN SOCIETY.	SPAN 120 ADVANCED ELEMENTARY SPANISH.	
Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: 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.)	Units Class Hours Prerequisites: Description: Continuation of Spanish 110. Additions Spanish short stories to serve as a basis for classroot tion. Students are urged to make extensive use of facilities in the language laboratory.	
SOCI 350 INTRODUCTION TO CORRECTIONS. (Also ADMJ 350) Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Philosophy and history of correctional services. Survey of correctional institutions, probation concepts, parole operations, and community corrections. Correctional employee responsibilities, rehabilitation goals as they affect individual and inmate groups in both confined and field settings. Societal response to corrections, the effectiveness of corrections, and its impact on the society at large.	SPAN 121 ADVANCED ELEMENTARY SPANISH I. Units Class Hours Prerequisites: Description: The basic principles of Advanced Elemnish, offered at a less intense pace than Spanis semester equals approximately half of Spanish 120. If for fulfilling transfer language requirements. SPAN 122 ADVANCED ELEMENTARY SPANISH II Units Class Hours Prerequisites: Description: Further basic principles of Advanced	
SOCI 360 INTRODUCTION TO CRIMINOLOGY. (Also ADMJ 360) Units (Grade Option) 3 Class Hours 3 lecture hours/week Prerequisites: None 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.	Spanish, offered at a less intense pace than Spanish used for fulfilling transfer language requirements. SPAN 130 INTERMEDIATE SPANISH. Units Class Hours 5 lecture Prerequisites: SPAN 120 o Description: Practice of conversation and compositing grammar; class and collateral reading of Spanish a literature. Students are urged to make extensive facilities in the language laboratory.	
A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study. SPANISH	SPAN 140 ADVANCED INTERMEDIATE SPANISH. Units Class Hours Prerequisites: Description: Further practice of conversation and based on class reading of works of modern Statin-American authors; review of grammar; collaters Spanish and Spanish-American literature. This course	
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	for English speaking students and not bilingual students. SPAN 161 READINGS IN SPANISH LIT. I. Units Class Hours Prerequisites: Description: Oral and written composition, class read of Spanish and Spanish-American literature, extension reading of varied types of Spanish and Spanish-American ture, and review of grammar.	
language laboratory. SPAN 111 ELEMENTARY SPANISH I. Units 3 Class Hours 3 lecture hours/week Prerequisites: None Description: Approximately half of the semester's work in Spanish 110 is covered in this course. Recommended for those students without any background in foreign language study.	SPAN 162 READINGS IN SPANISH LIT. II. Units Class Hours Prerequisites: Description: Further study and practice in oral composition, class reading of works of Spanish at American literature, collateral reading of varied types and Spanish-American literature, and review of grant	
SPAN 112 ELEMENTARY SPANISH II. Units	SPAN 196 SPANISH LANGUAGE LABORATORY. Units (Credit Only) Class Hours Prerequisites: Concurrent enrollment in 111, 112, 120, 121, 122, Description: A program consisting of 25 – 50 hours o language laboratory, emphasizing speaking and un Spanish.	

Units Class Hours 5 lecture hour Prerequisites: Spanish 110 or equ Description: Continuation of Spanish 110. Additional rea Spanish short stories to serve as a basis for classroom co tion. Students are urged to make extensive use of the li facilities in the language laboratory.	rs/week livalent. ding of
SPAN 121 ADVANCED ELEMENTARY SPANISH I.	
Units Class Hours Prerequisites: Description: The basic principles of Advanced Elementar nish, offered at a less intense pace than Spanish 120 semester equals approximately half of Spanish 120. May be for fulfilling transfer language requirements.	rs/week N 112 ry Spa- 0. One
SPAN 122 ADVANCED ELEMENTARY SPANISH II.	
Units Class Hours 3 lecture hour Prerequisites: SPA Description: Further basic principles of Advanced Elen Spanish, offered at a less intense pace than Spanish 120. I used for fulfilling transfer language requirements.	rs/week AN 121 mentary
SPAN 130 INTERMEDIATE SPANISH.	- 6
Units Class Hours 5 lecture hour Prerequisites: SPAN 120 or equ Description: Practice of conversation and composition: re grammar; class and collateral reading of Spanish and S literature. Students are urged to make extensive use facilities in the language laboratory.	s/week ivalent. view of spanish
SPAN 140 ADVANCED INTERMEDIATE SPANISH.	
Units Class Hours Prerequisites: Description: Further practice of conversation and compleased on class reading of works of modern Spanis Latin-American authors; review of grammar; collateral read Spanish and Spanish-American literature. This course is infor English speaking students and not bilingual students.	osition ch and
SPAN 161 READINGS IN SPANISH LIT. I.	
Units Class Hours Prerequisites: Description: Oral and written composition, class reading of Spanish and Spanish-American literature, extensive coreading of varied types of Spanish and Spanish-American ture, and review of grammar.	s/week AN 140 f works ollateral
SPAN 162 READINGS IN SPANISH LIT. II.	
Units Class Hours Prerequisites: Description: Further study and practice in oral and composition, class reading of works of Spanish and Spanish-American literature, collateral reading of varied types of S and Spanish-American literature, and review of grammar.	Written panish- panish
SPAN 196 SPANISH LANGUAGE LABORATORY.	
Units (Credit Only) Class Hours Prerequisites: Concurrent enrollment in SPA 111, 112, 120, 121, 122, 130 of	s/week N 110, or 140
Description: A program consisting of 25-50 hours of work language laboratory, emphasizing speaking and understa Spanish.	in the

3 lecture hours/week

speakers of English.

3 lecture hours/week

3 lecture hours/week

SPCH 100 or equivalent.

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, approached 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.)
SPAN 802 CONVERSATIONAL SPANISH II.
Units (Grade Option) Class Hours Prerequisites: Description: SPAN 801 Description: Description
SPAN 803 CONVERSATIONAL SPANISH III. Units (Grade Option)
Class Hours Prerequisites Description: More advanced drill in the patterns and idioms of daily speech is supported with sufficient grammar to give flexibility in the spoken language (This course will not fulfill language requirement at California State Colleges or at the University of California.)
SPAN 804 CONVERSATIONAL SPANISH IV.
Units (Grade Option) Class Hours Prerequisites: 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 58: 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.
Unite 3

modes

Units

Class Hours

Prerequisites

Class Hours Prerequisites. Description: More advanced drill in the patterns and idioms of daily speech is supported with sufficient grammar to give flexibility in the spoken language. (This course will not fulfill language requirement at California State Colleges or at the University of California.) SPAN 804 CONVERSATIONAL SPANISH IV. Units (Grade Option) Class Hours 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 58: 670 Cooperative Education, 680 Selected Topics, 690 Research Projects; 695 Independent Study, 880 Other Selected Topics; 895 Other Independent Study.	SPCH 130 VOICE AND ARTICULATION. Units Class Hours Prerequisites: 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. Units Class Hours Prerequisites: 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.
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	SPCH 811, 812 SPEECH FOR NON-NATIVE SPEAKERS I, II. Units 3 each Class Hours 3 lecture hours/week 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.
and doliver speeches in	A LIVE I I I I I I I I I I I I I I I I I I

A detailed description of the following courses may be found

under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

TOUR 100 TRAVEL INDUSTRY REFERENCE MATERIALS.

Description: Travel industry reference materials and career skills

necessary for employment. Course includes how to read and use

Units (Grade Option)

SPCH 120 INTERPERSONAL COMMUNICATION.

SPCH 127 ADVANCED PUBLIC SPEAKING.

political attempts at persuasion, past and current.

in public address.

Class Hours

Prerequisites:

3 lecture hours/week

3 each

TOURISM

Class Hours ... Prerequisites:

Eligibility for enrollment in ENGL 100:

SPCH 811 or 812 for non-native speakers of English.

address. Students will study, prepare, and deliver speeches in

the traditional forms. Speeches will be delivered in both

impromptu (spontaneous) and extemporaneous (prepared)

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 111, 112 ORAL INTERPRETATION I, II.

Class Hours 3 lecture hours/week
Prerequisites: SPCH 811 or 812 for non-native

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

Description: More sophisticated than SPCH 100, this course continues the examination of the various forms of public address, with an emphasis on the study of persuasion and attitude change as affected by public address. The class will examine the forms, structure, effect, and ethical requirements of social, mercantile,

reference materials to prepare itineraries including hotels, airlines, steamships, local tour operations and wholesale package tours, and itinerary planning. (One field trip required; others optional.) Recommended: Take Tourism 100 and Tourism 721 concurrently.
concurrently.

TOUR 101 SELLING TRAVEL.

Units (Grade Option)			
Class Hours			3 lecture hours/week
Prerequisites:	TOUR	100 or	concurrent enrollment
			in TOUR 100

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		ek
Prerequisites	TOUR 100 or concurre	ent
	enrollment in TOUR 10	

Description: European cultural and physical geography as it relates to travel. Covers tourist attractions and facilities, reference materials and tariffs, surface travel and air routings. This course will include the British Isles and Ireland, Scandinavia, Central European countries, Eastern Europe and the Middle East.

TOUR 104 TRAVEL DESTINATIONS/WORLD.

Units (Grade Option)	
Class Hours	3 lecture hours/week
Prerequisites:	TOUR 100 or concurrent
	enrollment in TOUR 100.

Description: World cultural and physical geography (excluding Europe and Mid-East) as it relates to travel. Covers tourist attractions and facilities, reference materials and tariffs, surface travel and air routings. This course will cover North, Central, and South America, Africa, the Orient, the South Pacific, India, and the East Asian Sub-continent.

TOUR 200 INTRODUCTION TO HOSPITALITY AND TOURISM INDUSTRY.

Sims (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites: None
Description: An introduction to the broad fields of tourism, travel,
and hospitality. Among the topics covered are growth and
development of hospitality and travel industries, components and
suppliers in the travel-hospitality fields, destination development,
social and economic impacts of tourism. (This course is the
introductory course for the A.S. Degree/Transfer Program in
Tourism)

TOUR 710 TOURISM SUPPORT STAFF PROCEDURES.

Units (drade Option)	
Class Hours	3 lecture hours/week
Prerequisites:	TOUR 100 and 721.
Description	100h 100 and 721.
Description: Applicati	on of learned theories; use of reference
materials in itinerary p	reparation; sales techniques and training in
reservations procedur	es in a travel agency, including credit sales
procedures, insuranc	e forms, M.C.O.'s, and other ATC forms
and other ATC sales	reporting. TOUR 711, Airline Computer
Training, may be taken	concurrently with this course. Both should
he taken immediately	prior to the student solution Doll's Silver
be taken inimediately	prior to the student going to work. (Two
field trips are required	with this course; others optional.)

TOUR 711 AIRLINE COMPL	JTER	TRAINING.
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Units (Credit/No Credit)	*****						
Class Hours					48	lah	hours
Prerequisites: TOL	JR 100	, 721,	and	710. (May	be	taker
				atly savit			

Description: Lab course providing "hands-on" training on a computer terminal used by airlines and travel agencies in making passenger reservations. It includes all computer applications used in planning, confirming, and pricing airline itineraries and requested related travel services.

TOUR 715 FI.T. PLANNING AND COSTING.

Units (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites: TOUR 100 TOUR 710
Description: International itinerary preparation (FLT) 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. (One field trip required; others optional.)

TOUR 721 DOMESTIC AIR TARIFF AND TICKETING

Units (Grade Option)	3
Class Hours	3 lecture hours/week
Prerequisites:	TOUR 100 or concurrent enrollment
	in TOUR 100

Description: A beginner's course in domestic airline fare computation and ticketing procedures. Covers use of reference materials used by travel agencies and airlines in developing domestic flight itineraries, and in pricing and ticketing them. (This course may be taken concurrently with TOUR 100.)

TOUR 722 ADVANCED DOMESTIC AIR TARIFF AND TICKETING.

Units (Grade Option)	
Class Hours	3 lecture hours/week
Prerequisites:	TOUR 721
Description: Offers advanced	training in domestic airline fares.

Description: Offers advanced training in domestic airline fares, rules, regulations and procedures. Emphasis is on proper usage of reference materials. Includes fares to Alaska and Canada, and other more complicated fare constructions.

TOUR 725 INTERNATIONAL AIR TARIFF AND TICKETING.

Units (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites: TOUR 721 TOUR 722
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.)

TOUR 726 ADVANCED INTERNATIONAL AIR TARIFF AND TICKETING.

Units (Grade Option)
Class Hours 3 lecture hours/week
Prerequisites: TOUR 725
Description: Offers advanced training in International Air Tariff
procedures. Includes fictitious fare construction points around-
the-world fares, and tour busing, group, excursion and APEX
fares. Includes special fares from USA to Mexico, the Caribbean.
Central and South America. (This course is an enrichment of the
Advanced IATA Diploma material.)

TOUR 731 WHOLESALE TOUR OPERATIONS.

Units (Grade Option)
Class Hours
Prerequisites: TOUR 100
Description: This course is an introduction to the technical
aspects of wholesale tour operation and the office procedures
involved. Pricing and planning will be covered with some

preliminary look at marketing. (One field trip required; others optional.) TOUR 732 WHOLESALE TOUR OPERATIONS - ADVANCED. Units (Grade Option)

Class Hours 3 lecture hours/week Prerequisites: TOUR 100 Description: Special airfares used with package tours; operating as a local tour operator; working with allotments; advertising and sales promotion; researching new tours; writing brochures that sell; negotiating for over-ride commissions; filing for IT numbers. (One field trip required; others optional.)

TOUR 750 ICTA: TRAVEL AGENCY BUSINESS MANAGEMENT.

Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites: TOUR 100, 710, 715, 721, 725 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.

Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites: TOUR 100, 710, 721, 725 Description: Study of travel agency operations. It emphasizes procedures designed to improve travel services and client

TOUR 752 ICTA: MARKETING AND SALES MANAGEMENT.

Class Hours 3 lecture hours/week
Prerequisites: TOUR 100, 710, 715, 721, 725 Description: Applies marketing, sales promotion, and advertising 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.

TOUR 753 ICTA: INTERNATIONAL TRAVEL AND TOURISM.

Units (Grade Option) 3
Class Hours 3 lecture hours/week
Prerequisites TOUR 100, 710, 715, 721, 725 Description: Concentrates on geographic, social and cultural factors of international tourism and the part played by the retail travel agent in the development of tourism.

A detailed description of the following courses may be found under Announcement of Courses, page 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study; 880 Other Selected Topics; 895 Other Independent Study.

WORD PROCESSING

See INTEGRATED INFORMATION PROCESSING

ZOOLOGY

ZOOL 210 GENERAL ZOOLOGY. Units 5 Class Hours (Fall only) 3 lecture, 2 3-hour labs/week

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 58: 670 Cooperative Education; 680 Selected Topics; 690 Research Projects; 695 Independent Study, 880 Other Selected Topics; 895 Other Independent Study.

FACULTY 1985 — 1986

(Date of appointment to San Mateo County Community College District follows name.)

Aarons, Bernard L. (1960)
Geology, Oceanography,
Paleontology
B.S., Pennsylvania State College
M.S., University of California,
Berkeley

Anderson, Richard W. (1970)
Physical Education,
Computer Science
B.A., San Jose State University
M.A., Stanford University

Andrew, Alan (1968)
Physics
B.S., University of Nebraska
M.S., Ph.D., California Institute
of Technology

Ashley, Lyman C. (1968) Physical Education B.S., M.A., California State Polytechnic College

Batch, Robert W. (1965) Chemistry B.S., Tufts University M.S., Northeastern University

Berdon, Jean D. (1969)
Mathematics
B.S., Tufts University
M.S., University of Connecticut

Bettendorf, Joline (1982) Court Reporting B.A., M.A., Humboldt State University

Bishop, Marie-Louise (1973) Religion, Philosophy B.A. Regis College M.A. University of Michigan M.A. University of Chicago

Blanton, Donald J. (1964) Biology, Botany B.A., Aquinas College M.S., University of Michigan

Bond, Alice L. (1984)
Management & Training
Institute — Coordinator
B.A., M.A., San Francisco
State University

Bowling, Clayton E. (1976)
Basic & Applied Sciences
Division Director
B.A., M.A., Stanford University

Branstrom, Marvin J. (1970)
Anatomy, Physiology
B.A., M.A., San Jose State
University
Ph.D., Pacific Graduate School of
Psychology

Bratton, Glory (1982)
Learning Disabilities
B.A., San Francisco State
University
M.A., University of Santa Clara

Chan, Florence M. (1968)
Coordinator, Library Services
B.A., University of British Columbia
M.L.S., University of California,
Berkeley
M.A., San Jose State
University

Claire, S. Richard (1976)
Business
A.A., College of San Mateo
B.A., San Francisco State
University
M.B.A., University of Santa Clara

Collins, James E. (1954) Economics, Counselor Foreign Student Adviser A.B., Syracuse University A.M., Stanford University

Cory, Genevieve H. (1968)
Interior Design
B.S., University of Nevada
M.A., Ph.D., University of California,
Berkeley

Crockett, R. Kent (1965) Speech, English B.A., M.A., San Jose State University

Cunningham, Lois (1971) Social Science, Sociology B.A., Briar Cliff College M.A., St. Louis University

Curtis, Robert M. (1967)
Drama, English
B.A., M.A., San Francisco State
University

Damon, Rosemary W. (1970)
Business
B.S., University of California,
Berkeley
M.B.A., Stanford Graduate School of
Business

Del Gaudio, Joan B. (1965)
Business, Counselor
B.S., Cen. Connecticut State College
M.Ed., Boston University

Drever, Jerard D. (1968)
Physical Education
A.A., College of San Mateo
A.B., San Jose State University
M.A., San Francisco State
University

Eakin, J. David (1968) Spanish, French A.B., M.A., University of Oregon Earnhardt, Eldon D. (1969) Anthropology B.A., M.A., San Francisco State University

Easter, Stanley E. (1969)
Music,
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)
Art
B.A., Indiana University
B.F.A., Kansas City Art Institute
M.F.A., Pennsylvania State
University

Ellett, Melvin K. (1952) Drama A.B., M.A., Ph.D., Stanford University

Elkins, Floyd E. (1969)
Business/Social Sciences/Training
Division Director
B.A., San Francisco State
University
M.A., San Francisco State
University
Ed.D., University of Southern
California

Eyer, Dianne M. (1970)
E.C.E., Psychology,
Special Education,
Home Economics, Counselor
B.S., M.S., Purdue University
M.A., San Francisco State
University

Festa, Angelo R. (1966)
Physical Education
B.S., Michigan State University
M.S., Southern Illinois University

Forsythe, John C., Jr. (1957) Biology, Counselor A.A., College of San Mateo A.B., M.A., Stanford University

Friesen, John B, Jr. (1963) Humanities Division Director A.B., M.A., University of California, Berkeley

Gavazza, Steven D. (1981)
Computer Science, Mathematics,
Engineering
B.S., Stanford University
M.A., University of California,
Berkeley
Ph.D., Stanford University

George, Rosemary (1974)
Library
B.A., San Francisco State
University
M.L.S., San Jose State University

Giuntoli, Mervin A. (1966) Biology, Zoology B.A., M.A., San Jose State University

Glessing, Robert J. (1968)
Journalism, English
B. A., Marquette University
M.A., University of California,
Berkeley

Gray, Ella Turner (1969)
Director, Special Programs
& Services
B.S., Southern University,
Louisiana
M.A., University of Nebraska

Greenalch, John H. (1977) Administrative Dean B.A., St. Mary's University S.T.B., St. Mary's University S.T.L., St. Mary's University M.Ed., Duquesne University

Griffin, Irene F. (1964) Drama A.B., Barnard College A.M., Stanford University

Guerrero, Jesse (1976) Registrar B.A., M.A., San Jose State University

Gunderson, Peter K. (1973) Geography, Tourism B.S., Michigan State University M.A., Wayne State University

Hairston (Heringer), H. Grace (1969)
Business
B.A., South Carolina
State College
M.A., San Jose State University
Ed.D., Nova University

Harrington, Joyce M. (1969)
Nursing
R.N., Providence School of
Nursing
B.S.N.E., Seattle University
M.S., University of
California, San Francisco

Harris, Donald C. (1969)
English, Spanish
B.A., Howard University
M.A., San Francisco State
University

Hergert, Loretta J. (1969)
Director of Instructional
Resources
B.S., M.S., University of Colorado
Ph.D., University of Utah

Hetrick, Jane A. (1980)
Program Specialist
for the Handicapped
B.A., University of California,
Los Angeles
M.A., University of Santa Clara

Hinojosa, Aida (1975)
English
A.A., Metropolitan J.C.
B.A., University of Missouri
M.A., University of Missouri

Hoffman, Craig R. (1965)
English
B.A., University of California,
Berkeley
M.A., San Francisco State
University

Holle, Fredric A. (1968) Art B.A., M.A., San Diego State University

Hurley, Gale E. (1968)
Business, Computer Science
A.B., San Jose State University
M.A., San Francisco
State University

lenni, Philip C. (1969) Music B.S., M.S., Juillard School of Music

Jeppson, Joseph (1963) History, Law B.S., LL.B., J.D., University of Utah A.M., Stanford University Ph.D., University of California, Berkeley

Katz, Marlene (1964)
Business
B.S., M.S., Western Illinois University
Ph.D., Golden Gate University

Kenney, William C. (1968)
English, Film
A.A., College of San Mateo
A.B., Stanford University
M.A., San Jose State University

Keys, Elijah James (1969) Speech, English, B.S., University of Minnesota M.A., San Francisco State University

Kilpack, Bennett B. (1969)
Sociology, Psychology,
Psychological Services
A.A., College of San Mateo
B.S., M.S., Southern Oregon
College
Ph.D., Columbia Pacific University

Kirwin, Albert (1975) Office Related Skills

Le Bow, Diane (1968)
English
A.B., Douglas College (Rutgers)
M.A., University of California,
Berkeley

Lewis, Eileen L. (1974) Chemistry, Physics B.S., M.S., Texas A & M University

Loughrey, James R. (1963)
Math-Engineering
B.S., St. Michael's College
M.S., Rensselaer Polytechnic
Institute

Loughry, Alice P. (1970)
Home Economics
B.S., University of Maryland
M.S., New York State College,
Cornell University

Marchi, Joseph J. (1968) Counseling B.A., San Francisco State University M.A., Columbia University Teachers College

McCarthy, Barbara (1981) Adaptive Physical Education B.A., M.A., San Francisco State University

McGill, Sally J. (1971)
Nutrition, Foods & Dietetics
B.S., University of Oklahoma
M.P.H., University of California,
Berkeley
Registered Dietitian

McNamara, Cheryl J. (1968)
Physical Education
B.A., San Jose State University
M.A., San Francisco State
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Meek, Austen B., Jr. (1968) Mathematics B.A., San Jose State University M.A., Bowdoin College

Mendoza, Salvador (1984)
Counseling
B.A., San Diego State
University
M.A., Boston University

Messner, Gerald M. (1964)
English
A.B., Stanford University
M.A., California State University,
Los Angeles

Miller, Lewis D. (1971)
Computer Science, Engineering,
Mathematics, Physics
A.B., University of California,
Berkeley
M.A., San Jose State
University
Ph.D., Stanford University

Moore, Nancy H. (1973)
Radiologic Technology
B.A., M.S., San Francisco
State-University

Nicolopulos, Samuel J. (1968) Physical Education A.A., College of San Mateo B.A., San Jose State University A.M., Stanford University

Norman, Timothy H. (1968) Mathematics B.A., Illinois Benedictine College M.S., University of Notre Dame

Psychology
A.B., University of California,
Berkeley
M.A., San Jose State University
Ph.D., University of Nebraska

Owyang, Walter M. (1970)

Padron, Virginia (1977)
English Institute, Coordinator,
Counselor
B.A., M.A., San Jose State
University

Pagels, Guerd G. (1956)
English
A.B., Western Washington College
A.M., Ed.D., Stanford University

Plunkett, Charles R. (1965)
English
A.A., College of San Mateo
A.B., Stanford University
M.A., San Francisco State
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Pratt, Melvyn E., Jr. (1954) History, Philosophy A.B., Stanford University B.D., Yale University Ph.D., Stanford University

Preston, Jack (1984)
Computer Science, Mathematics
B.A., Clark University
M.A., San Francisco State
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Ramos, Richard M. (1967) Spanish A.A., Yuba Junior College B.A., University of Pacific A.M., Stanford University

Reller, Theodore L., Jr. (1968)
Political Science
A.B., M.A., University of
California, Berkeley

Rodriguez, Ernesto (1970)
College Psychologist
A.B., M.A., San Francisco
State University
Ph.D., Wright Institute

Sanden, Nancy L. (1980) Coordinator, Student Health Services A.A., San Jose State University, B.A., California State University, Fresno Sandler, Marie H. (1974) Early Childhood Education Psychology B.S., M.S., Florida State University

Sanfilippo, Rudy A. (1976) Sociology, Management B.A., M.A., San Jose State University

Schey, Robert E. (1970)
Coordinator of Counseling,
Cooperative Education & Testing
B.A., M.A., San Francisco
State University

Schoenky, Mary A. (1963) Nursing R.N., College of St. Scholastica B.S., University of Minnesota M.N., University of Washington

Sitton, Carl V. (1968) Music B. M., Texas Wesleyan College M.A., Mills College

Sonntag, Lela M. (1970)
Counseling
B.A., M. A., San Jose State
University
M.A. University of LaVerne

Sorensen, Lenora H. (1975) Tourism B.A., Texas A & I

Spangenberg, Ruth B. (1968) Psychology, Counselor B.A., Pomona College A.M., Stanford University

Stegner, Paul F. (1969)
Psychology, Computer Science
B.S., Pennsylvania State
University
M.A., California State
University, Fresno
Ph.D., Washington State
University

Steidel, James N. (1971) History, Ethnic Studies B.A., Kenrick College M.A., Ph.D., University of Southern California

Stein, Pamela D. (1969) English A.B., M.A., University of California, Berkeley

Stiff, Robert (1961) Executive Dean A.B., M.A., San Francisco b State University Stoney, James M. (1959) Microbiology, Biology B.A., M.A., San Francisco State University

Sutherland, Kenton (1970) English, English Institute

A.A., Compton College B.A., University of the Americas M.A., University of California, Los Angeles

Sweatt, Maurice L. (1966)
Biology, Anatomy
A.B., University of California,
Berkeley
M.S., University of Oregon

Swenson, Jack S. (1964)
English
B.A., University of Minnesota
M.A., San Francisco State
University

Szabo, Rosalee (1969) English B.S., Cornell University M.A., University of Rochester

Thein, Van Raymond (1970) Music B.A., M.A., San Francisco State University

Todesco, Lora B. (1974)
Business
B.A., San Jose State University
M.A., San Francisco State
University

Tovissi, Joseph A. (1965) Mathematics, Counselor B.S., Kent State University A.M., Stanford University M.S., Purdue University

Trugman, Ronald F. (1973)
Coordinator, Instructional Technology
B.A., Long Beach State University
M.S., M.S.Ed., Ph.D., University of
Southern California

Vial, Silvano A. (1964) Physical Education B.S., University of Idaho A.M., Stanford University

Villarreal, Gilberto S. (1968) Spanish, English Institute B.A., San Jose State University M.A., Stanford University Ph.D., University of Colorado

Vogel, Irwin (1977) Ophthalmic B.P.S., Empire State College

Weidman, Jane C. (1975)

English
A.B., University of Oregon
M.S., California State University,
Hayward

Westover, Ross W. (1962)
Physical Sciences
B.S., Brigham Young University
M.S., Syracuse University

Whitmore, Amy D. (1968) English A.B., Southern University M.A., North Carolina College

Workman, Gilbert B. (1968)
History
B.A., Yale University
M.A., San Jose State
University

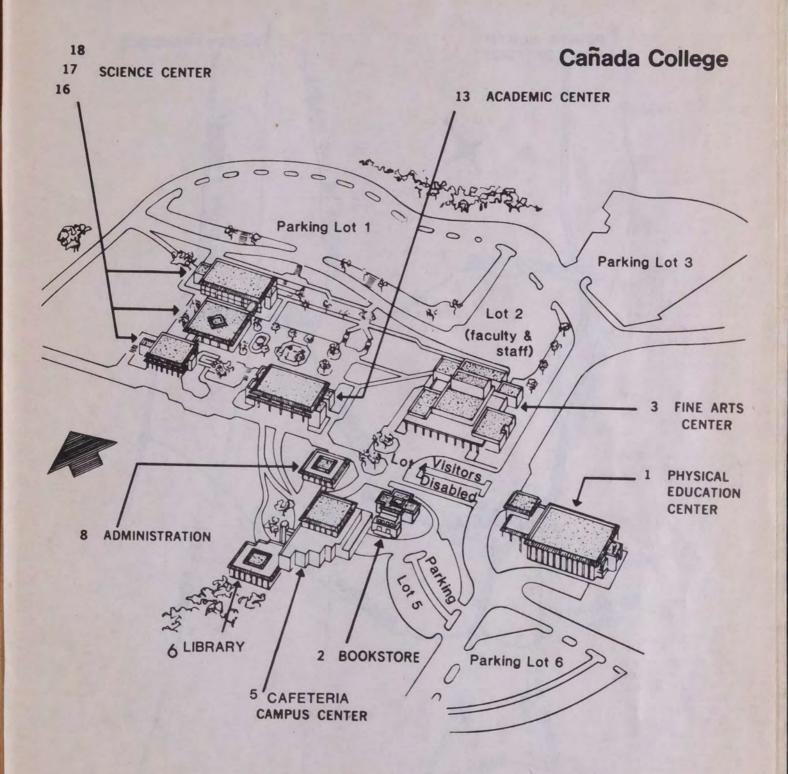
Young, Frank C. C. (1969)
Philosophy
B.A., University of Florida
M.A., San Francisco State
University

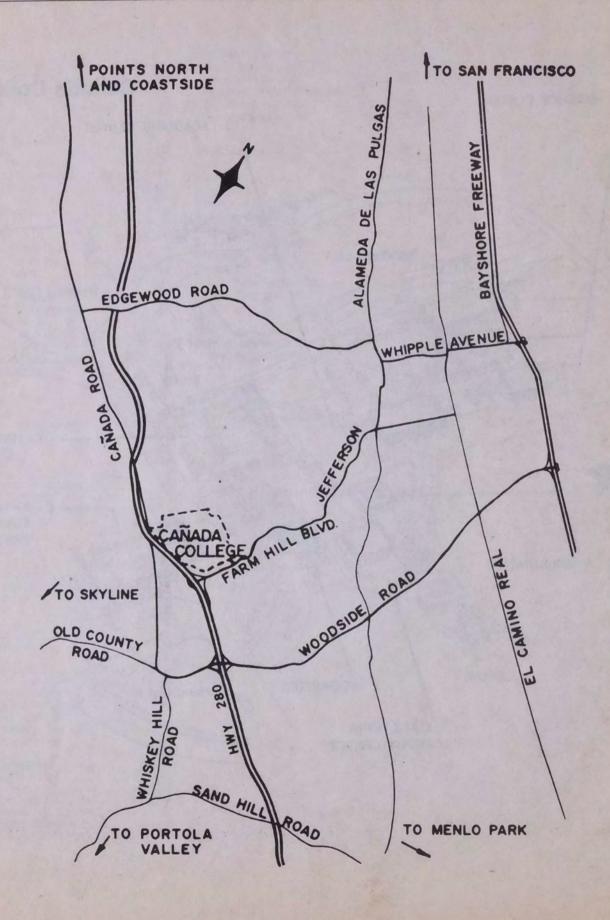
Zingales, Thomas J. (1964) French, German B.A., University of Notre Dame A.M., Stanford University

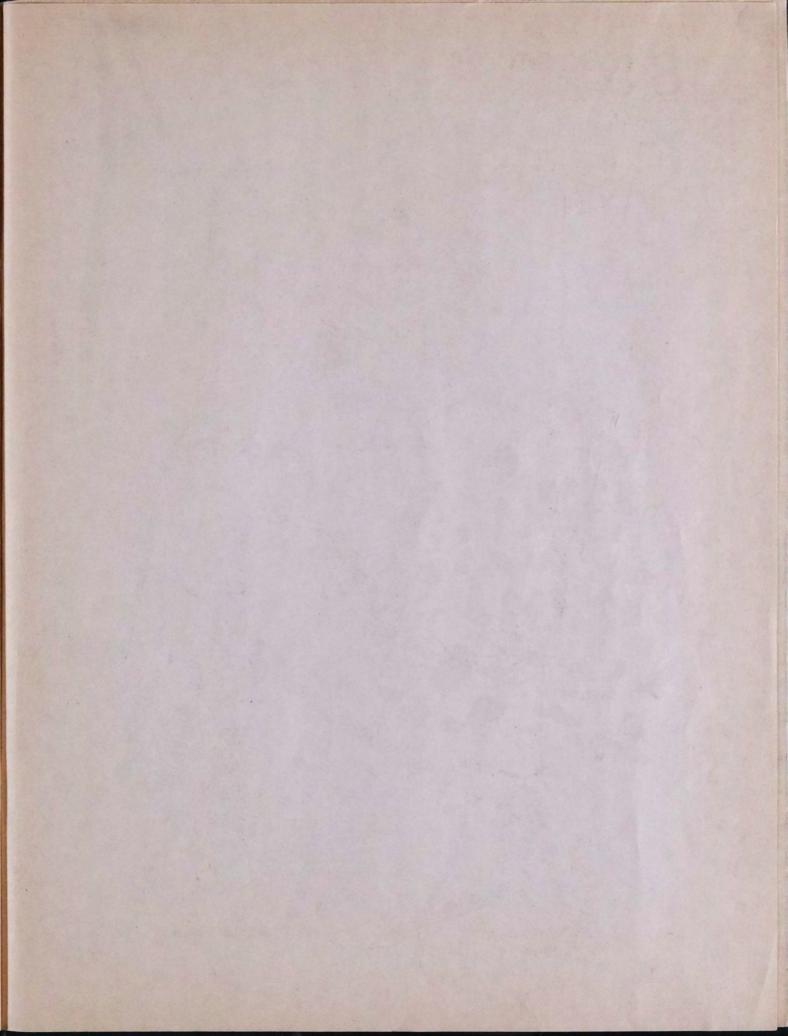
A	Counseling &	1	
Academic Renewal	Support Services 20	Incompletes	0
Academic Record Symbols 10	Counseling Appointments 7	Individual Sports	
Academic Standards 10	Course Descriptions 58	Industrial Arts	1
Accounting 43, 58	Course Repetition	Information, General	
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