

WELCOME to DE ANZA COLLEGE

Dear Student:

I am delighted that you have chosen to join us at De Anza College. I know that you will find yourself at home here on our spectacular campus. De Anza is an exciting college, with wonderful faculty and staff committed to your success.

We have terrific academic programs, athletic teams and social clubs. And we care deeply about your future. We want you to become an engaged member of this community, as well as superbly educated in your chosen academic field. We expect you to emerge with broad, valuable attributes and skills.

All elements of this comprehensive education are crucial to your success, including providing you with a beautiful physical environment. The entire campus is committed to sound environmental practices, sustainable resources and energy conservation.

You will see lots of construction going on, and we are excited about the new and refurbished facilities we have. All of it was made possible by the generosity of local voters.

The buildings are great, but our people are the most critical part of why De Anza is “Simply the Best.” Faculty you can talk with, staff willing to go the extra mile, fellow students from all over the world – these are what make De Anza special.

I urge you to invest in your education by taking full advantage of our campus and its programs and services.

Welcome to De Anza College.

Sincerely,



President Brian Murphy



Mission Statement

De Anza College provides an academically rich, multicultural learning environment that challenges students of every background to develop their intellect, character and abilities; to realize their goals; and to be socially responsible leaders in their communities, the nation and the world.

De Anza College fulfills its mission by engaging students in creative work that demonstrates the knowledge, skills and attitudes contained within the college's Institutional Core Competencies:

- Communication and expression
- Information literacy
- Physical/mental wellness and personal responsibility
- Global, cultural, social and environmental awareness
- Critical thinking

Adopted Spring 2010



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SUSTAINABILITY, FACILITIES, EQUIPMENT and TECHNOLOGY INCLUDING MEASURES E and C

De Anza's commitment to sustainability in its daily operations and building program continued in 2009-2010. The college submitted its draft of the American College and University Presidents' Climate Commitment Action Plan and continued to participate in the Sustainability Tracking, Assessment and Rating (STARS) program. The College Environmental Advisory Committee (CEAG) focused its efforts on social justice in the cultivation, preparation and acquisition of food products used in the Dining Services operation.

On March 15, 2010, the U.S. Green Building Council awarded the Visual and Performing Arts Center a LEED® Silver rating. The building achieved 33 documented and approved points under the LEED® For New Construction rating system.

In May 2010, De Anza College's Mediated Learning Center (MLC), designed as a LEED® Platinum building, won the 2010 Best Practice Award for the Energy Efficiency Partnership Program's Overall Sustainable Design. This program:

- Highlights the achievements that the University of California, California State University and California Community Colleges campuses have made through innovative and effective energy efficiency projects and sustainable operations.
- Showcases specific projects and retrofits as models to be used by other campuses to achieve energy efficiency and sustainability goals.
- Provides campus staff with a valuable resource of Best Practice projects that they can transfer to their own campus.

The MLC, due to open in fall 2012, was designed to provide flexible general classrooms as well as lab space for Anthropology. The MLC will also house offices for Distance Learning, a training classroom and offices for Staff and Organizational Development, and the Broadcast Media/Film/TV studio with offices for the Technology Resources Group (TRG). The goal is to make the MLC an energy efficient facility that fully integrates technology in the classrooms. Green building features include:

- Rooftop photovoltaic panels for electrical generation
- Rooftop solar hot water panels for building use
- Buoyancy-driven ventilation
- Raised floor for gentle air distribution and flexibility
- High-performance skylight glazing
- Clerestory windows
- Use of natural daylight
- Orientation and layout for energy efficiency and passive solar benefits
- Water conservation and water runoff control
- Radiant heating in the lobby/atrium floor
- Native- and low-water-usage species landscaping design

Other projects completed this year include renovation of the Automotive Technology building and installation of photovoltaic arrays in Parking Lot C. Work continues on the renovations of the historic Baldwin Winery Building and the East Cottage located in the college's historic corridor that includes Le Petit Trianon (California History Center) and the Sunken Garden.



A public, two-year college of the Foothill-De Anza Community College District
21250 Stevens Creek Boulevard ■ Cupertino, California 95014 ■ 408.864.5678 ■ www.deanza.edu

Alternative Media

To request college materials in an alternate format, persons with disabilities should contact the alternate media specialist at 408.864.5815.

Guarantee of Accuracy

Although every effort has been made to assure the accuracy of the information in this catalog, students and others who use this catalog should note that laws, rules and policies, programs, services and fees change from time to time and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the legislature, rules and policies adopted by the Board of Trustees of the Foothill-De Anza Community College District, or by the chancellor or designee of the institution. For these reasons, we caution readers to verify the information in this catalog.

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ACADEMIC YEAR CALENDAR

2010-2011

Fall Quarter

September 20 through December 10, 2010

Last day for international students to apply
for admission: June 30
Instruction begins: September 20
Final examinations: December 7-10

Holidays:

Veterans Day: November 12
Thanksgiving recess: November 25-26
Winter recess: December 13-31

Winter Quarter

January 3 through March 25, 2011

Last day for international students to apply
for admission: October 31
Instruction begins: January 3
Final examinations: March 22-25

Holidays:

Martin Luther King's birthday: January 17
Presidents' Day weekend: February 18-21
Spring recess: March 28-April 1

Spring Quarter

April 4 through June 24, 2011

Last day for international students to apply
for admission: January 31
Instruction begins: April 4
Final examinations: June 21-24

Holiday:

Memorial Day weekend: May 28-30

Summer Sessions

For the latest information regarding Summer Sessions
in 2011, check our Web site at www.deanza.edu.

Holidays:

Independence Day: July 4
Labor Day: September 6

Student Rights and Responsibilities

De Anza functions within a basic framework that relies on the personal honor and integrity of its students and staff. This framework is fostered in an atmosphere of mutual trust and openness, relying on example and discussion to promote understanding and respect for civil and moral standards of behavior. The larger society dictates that certain laws must be followed. These are enforced by the college, both in policy and in practice. In addition, there are circumstances that apply more specifically to the academic community. These are contained in a district policy on Student Rights and Responsibilities.

Structured in a manner that clearly delineates the reciprocity of freedom and responsibility, the pamphlet discusses classroom endeavors, campus and student affairs. The college has also established and published Due Process Procedures, included within Student Rights and Responsibilities, which explain the procedures established for students to ensure that they receive full and just due process of law. Grounds for disciplinary action are listed, and avenues of resolution and appeal are explained.

Several due process bodies have been established both by college administration and by student government. Matters of academic dispute are brought to the Academic Council. The college has a Student Grievance Procedure—staffed by administrators, faculty and classified staff—which may be the first step in a grievance process. Students who violate a college rule meet with the dean of Student Development who informs them of the charges against them and provides them with a copy of the due process procedures, which spell out options available to students and appeal processes.

Accrediting Agency

De Anza College is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, 10 Commercial Boulevard, Suite 204, Novato, CA 94949, 415.506.0234; 415.506.0238 (fax). It is an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education.

CAMPUS OVERVIEW

De Anza College opened in 1967 as the second college in the Foothill-De Anza Community College District. One of 112 community colleges in California, De Anza has gained a national reputation for its responsiveness to community needs, including those of students with physical and learning disabilities, ethnically and culturally diverse backgrounds, older populations and re-entry students.

Located 45 miles south of San Francisco, De Anza occupies a 112-acre site in Cupertino in the heart of Silicon Valley. The college is one of the largest single-campus community colleges in the country, with enrollment averaging 24,000 students. The De Anza student body is as richly diverse as the college's course offerings and extracurricular activities. Most students are from the Silicon Valley region; others represent more than 50 nations. The college is known for its dynamic student activities program, which features successful intercollegiate athletic competitions, intramural team sports, more than 60 student clubs and an active student government.

Plans for the Future

The "De Anza College 2007 Facilities Master Plan" is being updated in 2010 and will be an outgrowth of the college's recently updated "Educational Master Plan 2010-2015." The 1999 Foothill-De Anza Community College District Educational and Facilities Master Plan for Foothill College and De Anza College addressed the primary goals identified during the planning process in 2006-2007 and which are still applicable:

- Support student success and retention through the development and ongoing support of educational and public spaces that are attractive, comfortable and suitable for a variety of uses and to a diversity of users

- Develop safe and accessible vehicular, pedestrian and bicycle paths
- Exemplify environmental stewardship and leadership toward sustainability
- Provide space that will empower and support collegiality among faculty, staff and students

De Anza's 2007 plan was also based on the need to meet the enrollment demand, pedagogical and social needs of the campus community, as well as to respond to the analyses of instructional and student support program needs and address the expectations of a technologically savvy student community. It provided the direction for the bond projects made possible by the Measure E construction bond, including the Kirsch Center for Environmental Studies, Science Center Complex, Stelling Parking Structure, Student and Community Services Building, and Visual and Performing Arts Center. Renovation projects included the Creative Arts, Language Arts, Physical Education and Science instructional quads.

Philosophy and Objectives

De Anza believes that each person has dignity and worth and is entitled to an equal right to develop his or her potential for a full and meaningful life. Men and women of all ages, interests and ethnic backgrounds are welcomed here to exchange ideas, to gain understanding of their own and others' motivations, to question and to learn.

The fundamental notion that education is a process of exploration entails mutual responsibility. Thus the college offers programs sensitive to the changing needs of the community it serves and provides a staff of dedicated professionals committed to creating an environment that nurtures learning. Students, in turn, participate directly in their own education, challenging themselves and fellow students as well as entering into a cooperative relationship

with faculty. In proportion to the students' personal investment of time, energy and commitment, they will come to know themselves better, develop their abilities and define their responsibilities to themselves and the community of which they are a part.

The first two years of four-year degree programs parallel requirements of the University of California, the California State University and Colleges, and private colleges and universities.

De Anza offers educational opportunities in a range of programs serving many functions:

- Successful university transfer can be attributed to De Anza's strong array of general education courses, a broad range of transfer courses in specific majors, and excellent student services that support educational planning and articulation between De Anza and four-year colleges and universities. De Anza is consistently among the top two community colleges in combined transfers to UC and CSU every year.
- Business, occupational and professional assistant courses and curriculums for students are offered with a view to entering gainful employment at the end of two years of college or less.
- General education courses and programs are available for those desiring to broaden their educational and cultural experiences or continue lifelong learning.
- Counseling services are available to assist students in self-evaluation and attainment of their maximum potential.
- A diversified program of community activities, recreation, culture and education offer wide access to campus facilities days, evenings and weekends.

General Education Program

The General Education Program reflects our conviction that students must have knowledge about certain basic principles, concepts, and methodologies both unique to and shared by various disciplines. The faculty intend that the General Education Program will provide students with the knowledge and skills necessary to evaluate and appreciate the physical environment, their culture and other cultures, the contributions of both men and women, and the society in which they live; and it will help them connect various fields of knowledge in order to become active, vibrant participants in a diverse and global society.

Taken from the General Education Statement of Philosophy—Adopted June 1999.

Degrees

Students completing 90 units with a “C” or better in major courses and a minimum 2.0 GPA in the General Education requirements may earn an Associate in Arts or Associate in Science degree. Students should develop an Educational Plan with a counselor to ensure that they complete courses that meet degree requirements, and should refer to the Certificate and A.A./A.S. Degree Programs section of this catalog.

Students may earn a second associate degree when completing all additional major or required support courses with a minimum “C” grade in each course. A formal degree petition must be completed with a counselor or adviser, and submitted to Admissions and Records prior to receiving any degree.

Accreditation

De Anza is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, one of the six national accrediting agencies.

Accredited colleges and universities generally give credit for comparable transfer level courses taken at De Anza College.

Pertinent coursework offered by the college has been approved by the Board of Governors of the California Community

Colleges, the State Department of Education and the Veterans Administration, as well as the Council on Medical Education and Registration, the Board of Registered Nursing, Community Allied Health Education and Accreditation, and the American Bar Association.

The Facilities

Located in Santa Clara Valley, De Anza is known for its distinctive architecture that harmonizes with the surrounding community and creates a natural, restful campus atmosphere conducive to study. Architectural accent points are expressed in buildings that serve unique functions, such as the Flint Center (a 2,570-seat performing arts auditorium); an Olympic aquatics complex; a 5,000-seat Outdoor Events Arena; the Fujitsu Planetarium at De Anza College that houses the only Infinium S Star projector outside of Japan; a 185-seat Recital Hall; the Advanced Technology Center; the Science Center; the Kirsch Center for Environmental Studies; the Student and Community Services Building; and, the newly constructed, state-of-the-art Visual and Performing Arts Center (a 400-seat theatre) that also houses the Euphrat Museum of Art and classroom. The buildings are grouped university-style, and Campus Drive encircles the academic and athletic areas.

De Anza has comprehensive athletic facilities including gymnasiums, a stadium, fields and/or courts for track, baseball, football, archery, tennis, all-weather soccer field and golf. De Anza’s Cheeseman Environmental Study Area contains several diversified ecosystems and is located next to the Kirsch Center for Environmental Studies.

The landscape development accents the natural advantages of the campus. More than 100 oaks, sycamores and palms were preserved and are supplemented with coastal redwoods and other indigenous plantings. The basic flat nature of the campus is accented by rolling lawns and meandering paths. Exterior areas are developed to create a variety of dignified courts ranging from intimate patios to large formal areas for outdoor assemblies.

De Anza serves approximately 24,000 students each quarter (not including noncredit Community Education courses), has close to 1,500 staff and faculty members, and hosts about 1,000,000 visitors each year. The college also provides courses at off-campus locations including two local high schools, Monte Vista and Fremont. All off-campus credit classes satisfy the same degree and transfer requirements as those offered on campus.

Facility Rental

De Anza facilities including the Campus Center, the Science Center, the Kirsch Center for Environmental Studies, the Visual and Performing Arts Center, performance halls and smart classrooms are available for special events, corporate meetings or other large events. If members of public or private groups would like to use campus buildings or outdoor areas, they must obtain a facility application form from the office of the evening coordinator on campus. Applications are also available on De Anza’s Web site at www.deanza.edu/rentals. De Anza faculty, staff and student clubs wishing to use facilities for nonacademic use must also submit an application to the office of the campus evening coordinator.

For more information, please call 408.864.8333 after 12 p.m. Monday through Thursday and 9 a.m. to 5 p.m. on Friday.

Cultural Activities

De Anza offers an extensive program of cultural and educational activities that contributes to the cultural enrichment of the students and community.

Academic divisions supplement their instructional activities throughout the year, especially in the Intercultural/International Studies, Creative Arts, Language Arts and Social Sciences/Humanities divisions. The student government association sponsors art exhibits, lecture series, films and musical events.

Many community organizations sponsor performances at the college that include opera, symphony, ballet, drama, lectures and musical productions.

COLLEGE PROGRAMS and SERVICES

Athletics

De Anza is a member of the Coast Conference and the California Community College Commission on Athletics. Varsity teams compete in nine sports for men: baseball, basketball, swimming and diving, cross country, football, soccer, tennis, track and field, and water polo. Ten sports for women include basketball, cross country, swimming and diving, water polo, softball, tennis, track and field, volleyball, badminton and soccer. All entering students have two years of eligibility at the community college level and must be enrolled in 12 units while competing. Ten of those 12 units must be academic units.

A student athlete must maintain a minimum 2.0 grade point average (GPA) during his/her education. S/he must complete 36 quarter units to be eligible for a second season. Of those 36 units, 30 must be consistent with the student athlete's educational plan. Student athletes are required to have an educational plan on file by their second quarter of attendance.

Physical Education and Athletics

Division Location: Building PE 4,

Room 41c

Telephone: 408.864.8751

Bookstore

The De Anza College Bookstore is located in the Student and Community Services Building. The Bookstore is the one-stop source for textbooks, reference books, study aids and school, art and office supplies. The Bookstore is the source for De Anza College logo clothing and gifts, scantrons, pencils and convenience store items. The Bookstore also offers educationally priced computers, software and supplies.

Telephone numbers: General textbook information 408.864.8455

Computer department

408.864.8232

FAX: 408.864.8468

Web site: <http://books.deanza.edu>
(includes 24-hour online textbook orders, school supplies, logo clothing orders, online faculty textbook requisitions, hours of operation, buyback dates, special events)

California History Center

The recipient of numerous awards and honors, the California History Center (CHC) is an active focal point for the study of California and has been recognized as an Outstanding Educational Facility by the state of California. The center is housed in the rehabilitated Le Petit Trianon, located on the De Anza College campus and listed on the National Register of Historic Places. CHC is dedicated to promoting the study of local and regional history and encouraging the development of a vibrant civic and cultural life for the community. Students, faculty, staff and community members are welcome to utilize the center's resources: credit courses, changing exhibits, lectures and special events, and publications including its quarterly membership magazine, *The Californian*, and local history books.

Another history center resource is the center's Stockmeir Library and Archives, a growing collection of materials on California and on almost every aspect of Santa Clara Valley's development. A book collection and archives, including student research papers, books, journals, oral history on video and audio tape, photographs, manuscripts, newsletters, clippings and pamphlets are available for research.

Telephone: 408.864.8986

Campus Abroad Program

The Foothill-De Anza Campus Abroad Program has been suspended until fall 2011. At that time we plan to resume programs to London and Paris. For updated information, visit the Campus Abroad Web site.

Web site: www.foothill.edu/programs/campusabroad.html

Cheeseman Environmental Study Area (Cheeseman ESA)

This 1.5-acre site on the southeast corner of the campus is maintained by the Biological, Health and Environmental Sciences Division (Environmental Studies Department) and contains a student laboratory for use by environmental studies and biology classes. The area, which contains 12 California native plant communities with more than 400 species of plants, is open for guided natural science tours by appointment.

Telephone: 408.864.5446

Child Development Center

The De Anza Child Development Center (CDC) offers child care to Foothill-De Anza students and the community at large. The program serves as a practicum for student interns working toward their degree/certificate in the fields of Child Development or Early Intervention and values inclusion of all children. Staff members meet the highest standards of the profession, and curriculum is based on best practices for young children.

The CDC serves children ages 18 months to 5 years and has the capacity for providing services to more than 100 children. Parent participation is supported and strongly encouraged. We offer an income-eligible sliding scale fee program sponsored by the California Department of Education.

Families are encouraged to sign up for a tour of the CDC prior to submitting a waiting list application – available at www.deanza.edu/child – where they can also find the dates of tours. Parents can place their child's name on the waiting list by completing the application and mailing or faxing it to the CDC.

Child care services operate all year around from 7:15 a.m. to 5:30 p.m.

Location: Southwest corner of campus

Telephone: 408.864.5795

FAX: 408.864.5627

College Life, Office of

The Office of College Life (formerly the Student Activities Office) provides an information and resource center for students, staff and community members. It also enhances multiculturalism and diversity at De Anza. The office, in concert with De Anza Associated Student Body (DASB), clubs and staff, provides for numerous educational programs and events representing our diverse student and staff community.

Among the many services are a housing Web site and college posting approval. Also available is free legal advice by a lawyer who will advise students on many legal matters.

Location: Hinson Campus Center
(Lower level, near Financial
Aid and Health Services)

Telephone: 408.864.8756

Web site: www.deanza.edu/collegelife

Clubs

Student success is the primary focus of De Anza, and one factor of success is campus involvement. There are more than 65 active clubs on campus that provide diverse opportunities for students. Clubs provide leadership opportunities, community service and friendships, and the horizon is open for many new clubs to be formed. For a current list of clubs, club meetings, how to start a new club and more, visit the Web site.

Web site: www.deanza.edu/clubs

Student Government

The De Anza Associated Student Body (DASB) is the elected government organization designed to enhance the college environment through student involvement in the decision-making process. Student government financially supports athletics, clubs, dances and speakers, creative arts events, student publications, social events and some instructional programs.

Active participation in student government provides students the opportunity to gain skills and knowledge in group dynamics, program planning and the opportunity to develop leadership skills.

Students are encouraged to participate in the development of co-curricular programs and the formulation of general college policies. Participation of students in the governance of the college is effected through membership and participation on all major college boards and committees.

The opportunity for self-government is extended to the students of De Anza by the board of trustees, administration and faculty to promote student activities that provide social and intellectual stimulation to the college campus and community. More information is available at the Office of College Life.

Web site: www.deanza.edu/dasb

Community Education

De Anza College Community Education offers many outstanding services and programs to community members of all ages and interests.

Web site: www.communityeducation.fhda.edu

Foothill-De Anza Short Courses

This program provides a variety of fee-based, non-credit courses in educational, recreational, cultural and community development.

Location: Student and Community
Services Building, 1st floor,
Room 127

Telephone: 408.864.8817

FAX: 408.864.5434

Web site: www.shortcourses.fhda.edu

Extended Year Summer Enrichment Program

For 26 years this De Anza College program has operated in partnership with the Cupertino Union School District and the Euphrat Museum of Art. It is offered for students entering first through tenth grades. The program operates for four weeks, mornings only, at three to five school sites throughout the local community. The program is fee-based, and classes are designed for the student who is at or above grade level. Registration begins in mid-March each year.

Location: Student and Community
Services Building, 1st floor,
Room 127

Telephone: 408.864.5860 or
408.864.8441

Web site: www.extendedyear.deanza.edu

Cooperative Education

Due to budget constraints, the Cooperative Education (Co-op) program at De Anza College will not be offered during the 2010-2011 academic year.



Visual and Performing Arts Center

Counseling and Advising Center

Counseling and advising services assist students in establishing their educational goals and identify support services to achieve those goals. For new students, Counseling 100, Orientation to College, includes this component. De Anza counselors and academic advisers have many years of experience helping students achieve their educational goals.

The Counseling and Advising Center, located in the Student and Community Services Building, provides a comprehensive service for students who seek assistance in dealing with a variety of concerns. Academic advisers assist with developing educational plans and addressing academic concerns. Counselors provide academic advising, educational, personal and career counseling. Services in the center include, but are not limited to, the following:

Academic Advising

- Individual educational planning
- Determination of transfer requirements
- Application for a certificate or degree
- Petitions to Academic Council

Educational Counseling

- Individual educational planning
- Selection of a major
- Time management
- Study skills
- Test anxiety

Career Counseling

- Career/life planning courses
- Assessment of skills, interests, values and personality styles
- Test referral and interpretation
- Exploration of career goals based on personal assessment
- Development and implementation of career plans

Personal Counseling

- Self-awareness
- Interpersonal communication
- Stress management
- Relationship counseling
- Clarification and resolution of problem areas
- Referral to off-campus resources

Counseling is a confidential relationship between a student and a counselor. Counselors act as catalysts to help students

define their own questions, explore their own alternatives and ultimately find their own answers.

Hours of operation are subject to change, especially during academic breaks. Please visit our Web site or call to check hours the center is open each week. Typically, counselors and academic advisers are available Monday and Thursday from 8:30 a.m. to 5 p.m., Tuesday and Wednesday from 8:30 a.m. to 7 p.m., and Friday from 8:30 a.m. to 1 p.m. Appointments may be made in person through the receptionist in the Counseling and Advising Center lobby, or by telephone. Appointments can be made one to two weeks in advance, beginning the second week of the quarter. The center is open to students on a walk-in basis only during the first week and the last two weeks of any quarter.

Location: Student and Community Services Building

Telephone: 408.864.5400

Web site: www.deanza.edu/counseling

DASB Card

The purchase of a DASB Card provides many benefits to the students and to the campus as a whole. The card provides the funds needed to support programs and services to the student such as clubs, seminars, guest speakers, athletics, creative arts productions, legal advice, loans, culturally diverse programs and campus publicity.

The DASB card is the property of the college and must be surrendered for needed replacement or by request of the Foothill-De Anza Community College Police.

The purchaser of the DASB Card is also entitled to the following benefits:

- The holding of a student government office
- Free admission to all home athletic games
- Participation in student clubs and organizations
- DASB book grants
- Legal advice service
- Use of computers in the Open Media Lab

Office location: Hinson Campus Center (Lower level)

Telephone: 408.864.5551

Web site: www.deanza.edu/dasbcard

Dining Services

Dining Services is located on the upper level of the Campus Center. Services for breakfast, lunch and dinner include an organic salad bar, salads tossed to order, hot and cold sandwiches, pasta specials cooked to order, specialty pizzas and American grill burgers made to order. An assortment of snacks, desserts and beverages is also available. Private dining rooms are available by reservation by calling the Dining Services Office. Banquet catering services are available for both on- and off-campus events.

Telephone: 408.864.8515

Web site: www.deanza.edu/diningservices

Distance Learning Center

The Distance Learning Center (DLC) offers a wide variety of courses for students, ranging from academic credit to upgrading skills or changing careers.

Technologies used to deliver instruction include video- and Web-based tools. Video courses include live and recorded classes via cable television, video streaming, videotape and two-way interactive video between De Anza and off-campus locations. Online courses utilize the Web and electronic communication with the instructor and classmates. Hybrid distance learning classes may combine video-based and online technologies, with some courses integrating CDs or other media.

In addition to the technology-delivered instructional media, all courses include substantial readings in assigned texts and materials, other homework assignments and interaction with De Anza faculty. Instructors are available to answer questions by telephone, online or in person at De Anza College. Some courses include required on-campus meetings and provide students opportunities to participate in classroom discussions with the instructor and other students. Examinations and tests may be required on campus. Other courses are designed with online or proctored examinations, which enable students outside the Silicon Valley area to complete course requirements without coming to campus. Most of the coursework may be completed at home or at work, online or in one of the open computer labs on campus.


Access to an individual e-mail account is strongly advised for all distance education students and is a requirement to participate in most distance learning classes. All DLC courses now provide online course syllabi ("green sheets") as a convenience for our students.

Students are encouraged to take advantage of other online college services, including the De Anza application for admission, course registrations for the current or upcoming quarter, adding and dropping courses after initial registration, access to library publications and materials, and college counseling (including the Counseling 100 and Career Life Planning 70 Web-based classes).

Please refer to the Distance Learning Center Web site for information on required orientations for distance learning classes. Some orientations are on campus, some are online, and some have the option of either an online or an on-campus orientation.

The Distance Learning Center offers courses and certificate programs in a variety of disciplines. Technology-delivered classes are academically equivalent to and carry the same credits as on-campus courses. Numerous courses meet General Education (GE) and transfer requirements. Students may complete most lower division GE degree requirements for the A.A. or to transfer to a four-year institution.

Programs are designed for busy individuals who may have limited time to attend on-campus classes on a regular basis and prefer the flexibility and convenience that distance learning offers. Successful students enrolled in Distance Learning courses are highly motivated, self-disciplined, possess good study skills and enjoy instruction that appeals to a variety of learning styles.

Mediated delivery of instruction may also support and benefit students with disabilities. For specific information on services provided to students with disabilities, please contact the Disability Support Services office on campus. Courses that implement closed captioned videos are indicated by the  symbol beside

that course each term in the Distance Learning Center's section of the college schedule of classes. Courses that may be applied to General Education requirements are designated by the **GE** symbol in each schedule.

Different instructional delivery technologies are also identified in the schedule with an icon designating the technology used for a specific course section. Please refer to the footers at the bottom of the pages in the Distance Learning section of each term's schedule of classes.

De Anza College has transfer agreements with four-year institutions that welcome and encourage students to transfer and complete B.A. or B.S. degrees through distance learning programs. Those accredited institutions include Capella University in Minneapolis, Minn., and Governor's State University located in University Park, Ill.

Office location: Library (Learning Center), Room 107

Telephone: 408.864.8969

FAX: 408.864.8245

E-mail: distance@deanza.edu

Web site: www.deanza.edu/distance

EOPS and CARE

Extended Opportunity Programs and Services (EOPS) provides support services for economically and academically disadvantaged students. Services include academic and personal counseling; assistance in completing admission, registration and financial aid forms; early registration and university transfer services.

Part of EOPS, the Cooperative Agencies Resources for Education (CARE) Program provides support services to single heads of household receiving Temporary Assistance for Needy Families (TANF). CARE students receive academic and personal counseling; early registration; and financial assistance with child care, books and transportation.

Location: Hinson Campus Center (Lower level)

Telephone: 408.864.8950

Euphrat Museum of Art

The Euphrat Museum of Art, located at the front of the Visual and Performing Arts Center, presents challenging exhibitions and educational materials that provide a resource of visual ideas and a platform for communication. It is a forum of ideas about art expressed through one-of-a-kind exhibitions, publications and events. Nationally recognized, the Euphrat program:

- Highlights our heritage of different cultures
- Enhances understanding of art fundamentals, art history and esthetics
- Augments college instruction in multiple disciplines

The Euphrat organizes an annual De Anza Student Art Show. Students participate in all aspects of museum operations, including the Euphrat's Arts & Schools Program that provides art classes to elementary and middle-school students in the community, and a brand new Come On Down! project space.

Receptions for the artists are free and open to the public. Call the Euphrat to schedule a group tour.

Visit. Volunteer. Experience art and leadership, community building, interdisciplinary projects and creative problem solving.

Location: Euphrat Museum of Art (Front of Visual and Performing Arts Center)

Telephones: 408.864.8836,
408.864.5464 (*Arts & Schools Program*)

Web site: www.deanza.edu/euphrat/
(for program activity updates)

Financial Aid and Scholarships

Financial aid is available through the college for students who need financial support in order to pursue their college education. The college provides assistance in the form of grants, scholarships, loans and part-time jobs. Except for scholarships, all programs require that a student show financial need in order to qualify.

De Anza College 2010-2011

Cost of Attendance

Living at Home with No Dependents		All Others
Registration and fees	\$ 855	\$ 855
Books and supplies	1,728	1,728
Room and board	4,338	10,872
Transportation	1,170	1,170
Personal and miscellaneous	2,826	2,826
Total	\$10,917	\$17,451

Application Procedure

For the programs below, use the Free Application for Federal Student Aid (FAFSA), available online at www.fafsa.gov. Carefully follow the directions provided. Applications for each new academic year are available online on January 1. Deadlines for the various programs vary considerably. Generally, financial assistance is provided as long as funds are available. You are encouraged to call or visit the Financial Aid Office for more information.

Financial Aid Programs

The following programs are offered at De Anza:

Grants

- Federal Supplemental Educational Opportunity Grant Program (SEOG)
- Federal Pell Grant
- Extended Opportunity Program Grant (EOPG)
- Academic Competitiveness Grant (ACG)
- Board of Governors Fee Waivers (BOGW)
- Cal Grant B
- Cal Grant C

Scholarships

Throughout the year, the Financial Aid Office receives announcements on scholarships offered by various organizations in the area. The amounts and qualifications vary with each scholarship. A listing of available scholarships is posted on the Financial Aid Bulletin Board and Web site.

Loans

- Federal Perkins Loan
- Federal Direct Loan
- Direct Parent Loan (PLUS)
- Book loans

Part-Time Jobs

- Federal Work Study Program (FWSP)

Financial Aid Contact

Location: Baldwin Winery Building

Voicemail: 408.864.8718

FAX: 408.864.5658

E-mail: financialaid@deanza.edu

Web site: www.deanza.edu/financialaid

Foothill-De Anza

Community College Police

The Foothill-De Anza Community College District Police Department exists to serve and protect a social and academic environment that sustains and encourages moral and intellectual growth. The department emphasizes being as proactive as possible in anticipating and preventing unsafe conditions, protecting facilities and property, and protecting individuals from the imprudent or illegal acts of others. Its operational philosophy of peacekeeping and protecting the campus is a service that best exists when it has the support and involvement of the total campus community.

Services include:

Emergency Car Service

This service, provided when the department is adequately staffed and not attending to priority security needs, includes dead-battery jumps or help if you lock yourself out of your car. (Vehicles with power locks and/or windows, or side air bags, or vehicles parked off campus are excluded.)

Security Escorts

Escorts are provided by District Police for anyone wishing to be escorted to his/her car at any time of the day or night. During working hours, call District Police five minutes in advance.

Lost and Found

All items should be turned in or claimed at District Police.

Location: Hinson Campus Center,
Room 175 (Lower level)

Telephone: 650.949.7313

Emergency: 9-1-1

Emergency from cell phone:
408.924.8000

Police services are available every day of the week and on holidays from 6 a.m. to midnight.

FHDA Internship Program

The Foothill-De Anza Community College District (FHDA) Internship Program offers 6-month to 1-year internships at local private and public corporations, such as NASA Ames, Apple Computers, SETI Institute, TiVo Inc. and more.

Internships are available in business, Web development and multimedia, engineering, psychology, marketing, machining and drafting, systems administration and information technology, science, administrative assisting, and other professional careers.

Interns earn a stipend for 20 hours per week during the academic year and 40 hours per week over the summer session. They also earn 4-6 units each quarter in a transferable experiential course. Mentors/supervisors are selected to provide training, support and guidance to interns.

Labor market survey shows that internships increase earning potential by at least 30 percent. Internships also increase your competitiveness for transfer admission to a university of your choice.

For more information, visit our Web site.

Telephone: 650.604.5560

Web site: <http://internships.fhda.edu>

Fujitsu Planetarium at De Anza College

The Fujitsu Planetarium at De Anza College hosts a variety of star and laser light shows throughout the year. Daytime school field trips (star shows) are available for school-age youth groups from September through July. The planetarium may be rented for corporate events, birthday parties, weddings, etc. Visit the planetarium Web site to view more information.

Location: North end of Parking Lot E

Telephone: 408.864.8814

Show information line: 408.864.5791

Web site: www.planetarium.deanza.edu

Health Services

The Health Services Office provides a variety of confidential free- and low-cost services. Free services include first aid, blood pressure checks, TB testing, over-the-counter medicines, smoking cessation, pregnancy tests, condoms and health education information. Services at reduced cost include well-woman exam, office visit, physical exam, birth control, emergency contraception, immunizations and flu shots.

Location: Hinson Campus Center
(Lower level)

Telephone: 408.864.8732

Web site: www.deanza.edu/healthservices/

Housing

De Anza does not have housing facilities, but the Office of College Life (formerly Student Activities Office) maintains a Web site listing available housing. De Anza does not supervise or assume responsibility for any housing facility. Visit the Web site for more information and to search through the housing ads.

Telephone: 408.864.8756

Web site: www.deanza.edu/housing

International Student Programs

The office of International Student Programs (ISP) addresses the needs of De Anza's international students and helps them adjust to their lives at the college and in the United States. Prospective and degree-seeking international students are encouraged to contact this office, visit our campus and check our Web site at www.deanza.edu/international.

ISP has a professional, multilingual staff who are well informed about educational development, personal and financial planning, cross-cultural issues, immigration rules and regulations, and community programs and resources. The international student counselors assist international students in designing their educational plans and prepare students for their transfer to a four-year university to continue their undergraduate education.

Each quarter, ISP organizes an orientation program for all new international students that covers a wide range of topics, including placement tests, health issues, academic skills, personal safety, banking and transportation. ISP also conducts numerous workshops throughout the academic year on a broad range of topics such as employment, transfers to four-year universities, F1 immigration rules, etc. Furthermore, to help international students in their adjustment to life in the Bay Area and the United States, ISP organizes a selection of social and cultural programs and activities; and to protect international students from the high costs of medical care in the U.S., all F1 students are required to purchase and subscribe to the international student health insurance selected by the Foothill-De Anza Community College District.

Location: Learning Center West
(LCW), Room 102

Telephone: 408.864.8826

E-mail: dainternational@deanza.edu

Web site: www.deanza.edu/international

Learning in Communities (LinC) Program

A Learning Community is an interdisciplinary approach to learning designed for student success that links two or more classes together with a common theme, content and materials. The community of students and faculty work collaboratively which creates a friendly, supportive atmosphere. Learning communities are open to all De Anza students.

When you enroll in a learning community, students will:

- Have some common readings and assignments in all classes in the learning community
- Have academic and personal support from a counselor dedicated to the learning community
- Learn more and earn more units with less stress and more fun

For more information and to see the schedule of learning communities offered each quarter, visit the Web site.

Web site: www.deanza.edu/linc/

Library Services

The college's library services are housed in the A. Robert DeHart Learning Center complex. The Library and Library West Computer Lab contain thousands of resources for students including books, magazines, and videotapes. The building has wireless access to the Internet.

Librarians staff the reference area on the first floor of the main building. Students who need help in accessing information on the Internet or in the thousands of available print resources can ask the librarians for assistance. A large portion of the magazine and newspaper articles referenced in the computer indexes can be immediately printed in full text format or e-mailed to any active e-mail account. For a sample of the resources available in the library, look at the Web site.

The Library offers a series of classes focused on teaching students and staff research and Internet search skills. These one-unit classes are offered online through Distance Learning and are listed in the class schedule under Learning Center.

Two computer labs are located in the Learning Center complex. The Library West Computer Lab, in the basement of Learning Center West, has 90 computer workstations. The Internet Lab on the second floor of the library has 20 workstations. In both of these labs, students can check their e-mail; access the Internet; and prepare projects using a large range of word processing, spreadsheet and presentation software.

The Library West Computer Lab houses video and audio tapes for the Distance Learning Program. These materials circulate for use outside the building. This lab also provides listening and viewing stations as well as digital cameras and a camcorder for students to check out.

Location: Library (Learning Center)
and Learning Center West

Telephone: Library: 408.864.8761

Library Circulation: 408.864.9761

Library Reference: 408.864.8479

Library West Computer Lab:
408.864.8850

Web site: www.deanza.edu/library

Occupational Training Institute (OTI)

OTI implements CalWORKs (Welfare to Work), WIA (Workforce Investment Act), NAFTA (North American Free Trade Agreement), TAA (Trade Adjustment Assistance) and other employment training programs. OTI provides intensive occupational training and job placement for those eligible for the above programs and who are low income (food stamps), disadvantaged or dislocated workers. If necessary, instructional and related activities are designed to address the specific skill needs of the labor market as well as to enhance the employability of the students. CompTechS (Computer Technical Support program) is an internship program for students who are interested in careers in information technology. The computer donation program provides computers to disadvantaged students via Financial Aid. OTI supports De Anza and Foothill colleges' excellent career training such as medical, technical and administrative occupations. For further information, contact the OTI office.

Location: Mod Quad C (MQ-3)
(Parking Lot C)

Telephone: 408.864.8869

Web site: <http://oti.fhda.edu>

Office of Outreach and Relations with Schools

The Office of Outreach and Relations with Schools actively works to attract a diverse student population to De Anza College through a collaborative working relationship with high schools, school districts, and communities throughout Santa Clara County. The goal of Outreach is to promote college access and success for all students, with emphasis on underserved and underrepresented student groups. The office serves prospective students and parents through a wide range of outreach activities at high schools including college fairs, career and college nights, presentations, info tables, student ambassadors, application workshops, placement testing, and De Anza campus tours. Outreach provides information about De Anza programs and services and serve as a point of contact for schools, students and parents to support the successful transition of prospective

students from high school to college. The office also works with all divisions, departments, and programs on campus to coordinate institutional outreach efforts, meet enrollment targets, and connect new students to programs and services.

Location: MQ-2 in Mod Quad C

Telephone: 408.864.8327

E-mail: outreach@deanza.edu

Web site: www.deanza.edu/outreach

Professional & Workforce Development

Professional & Workforce Development (P&WD) for the Foothill-De Anza Community College District works to provide training and professional development opportunities for those in or entering the Silicon Valley workforce. P&WD contracts with employers to train employees on site at their workplace and develops new programs that have the goal of preparing the workforce for emerging fields. Programs under P&WD include the Center for Applied Competitive Technologies which serves the technology and manufacturing sectors with just-in-time consulting and training services in process improvement and other areas.

Location: Foothill College campus,
Room 4057, 12345 El Monte Rd., Los Altos Hills

Telephone: 650.949.7797

Web site: <http://SiliconValleyTraining.fhda.edu>

Center for Applied Competitive Technologies

The Center for Applied Competitive Technologies is located at the Foothill College campus at 12345 El Monte Rd., Los Altos Hills. For information about its services, please call 650.949.7797.

Puente Project – A Bridge to Success

Puente is an award-winning national program that has helped thousands of students reach their dreams of college success. Puente was founded in 1981 by Felix Galaviz and Patricia McGrath, currently co-directors of the project at Chabot College in Hayward. Since then, Puente has been successfully replicated in more than 38 community colleges.

Puente provides three major areas of services to students to help prepare them

for transfer to four-year colleges and universities:

- **English Instruction** – Puente students take two consecutive writing classes, EWRT 211 and EWRT 1A. These classes provide a supportive and stimulating environment for Puente students with an emphasis on developing writing skills through an exploration of the Mexican American/Latino experience.
- **Counseling** – Puente students work closely with their Puente counselor to develop an academic educational plan, explore career options and identify their goals. The students enroll in HUMA 20: Life Skills in Higher Education and COUN 80, Latina/os Issues in Higher Education. Students visit campuses of the University of California and other four-year colleges and attend an annual Puente student motivational conference.
- **Mentors** – Puente students are matched with an academically and professionally successful mentor from the community. The network of trained Puente mentors provides many resources for Puente students, their families, their colleges and the community.

Puente students:

- Succeed academically
- Are recognized as leaders and scholars
- Graduate from four-year colleges and universities
- Belong to a statewide network of leaders and professionals

Location: Student and Community Services Building

Telephone: Alicia Cortez, Puente counselor at 408.864.8365

E-mail: cortezalicia@deanza.edu

Science Resource Center

The Science Resource Center is operated by the Biological, Health and Environmental Sciences Division and is open for use to all currently registered De Anza College students. There are a variety of learning resource materials available to students including PC and Mac computers (most

with Internet access), computer software, VCR/DVD players and videos, models and charts.

Student groups may also sign up to use one of the group study/meeting rooms.

Location: Science Center, Building 3,
Room 3101

Hours: Monday-Thursday
8:30 a.m.-5 p.m.;
Friday 8:30 a.m.-1 p.m.

Telephone: 408.864.8921

Special Education Programs

Adapted Physical Education

The Adapted Physical Education (APE) program provides exercise classes for individuals with physical limitations and disabilities.

Location: Building PE 6 (near the pool)

Telephone: 408.864.8885

Web site: www.deanza.edu/APE/

Disability Support Services

Disability Support Services (DSS) provides special services and instruction for students with physical disabilities, psychological disabilities or chronic health impairments. These include registration assistance, parking permit distribution, tram service, assistive technology support and training, academic and test accommodations.

Print-impaired students have the services of an alternate media specialist to assist them with curricular modifications such as ordering materials in special media.

Deaf and hard-of-hearing students have the assistance of an interpreter/scheduler with registration, the provision of interpreting and captioning services in the classroom, and with a campus liaison.

Location: Student and Community
Services Building

Telephone: 408.864.8753 (Voice)
408.864.8748 (TTY)

E-mail: dss@deanza.edu

Web site: www.deanza.edu/DSS/

Educational Diagnostic Center

The Educational Diagnostic Center (EDC) assists students in discovering their learning styles and academic strengths and weaknesses, and assesses eligibility for learning disability services at the California Community Colleges.

An adult with learning disabilities has average or above-average intelligence and needs assistance in one or more of

the following areas: reading, spelling, math, writing, problem solving, memory and organizational skills. All eligibility assessments are done on an individual basis, and a personalized plan of instruction is developed according to the student's abilities and needs. The following support services are available to students eligible for EDC: registration assistance; specialized instructional support classes; recommendation arrangements; and campus and community liaison including referral to social, medical, vocational and/or other educational agencies.

Location: Learning Center West,
Room 110

Telephone: 408.864.8839

Web site: www.deanza.edu/EDC/

Hope Program

The Hope-De Anza cooperative program is designed to serve adults with developmental disabilities who would benefit from a comprehensive rehabilitation/educational program. The training assists the individual in developing the attitudes, behaviors, work skills and self-confidence leading toward competitive, supported or sheltered employment.

A team approach is used that considers the total individual with emphasis on the development of an individualized and prescriptive vocational/educational plan.

There are two facilities:

1. 3080 Alfred St., Santa Clara, CA 95051, 408.562.1836
2. 1555 Parkmoor Ave., San Jose, CA 95128, 408.282.5012

Web site: www.deanza.edu/hope/

Stewardship Resource Center

The Stewardship Resource Center (SRC) is operated by the Biological, Health and Environmental Sciences Division's Environmental Studies Department. The

SRC provides tutorial and classroom support for Environmental Studies and Environmental Sciences courses and programs as well as students who are interested in learning about the stewardship of California and the environment.

Location: Kirsch Center for
Environmental Studies,
Room 224 (southeast corner
of campus)

Telephone: 408.864.5322

Student Success Center (SSC)

At De Anza College, many academic support efforts are organized within the Student Success Center, part of the Learning Resources Division. In the SSC, integrated programs support learning for all students across the curriculum in an open and supportive environment. Full-time professional staff provide support to students. In addition, all SSC programs depend on peer tutors. You may consider joining the exciting, dynamic team of tutors. This is a great opportunity if you are a De Anza student, have done well in your courses and have a desire to help others.

Recently, the SSC has undergone many changes to better serve students, all of which are documented on the Web site along with updates on space, staffing, hours, activities, telephone numbers and other information.

Web site: www.deanza.edu/studentsuccess

Academic Skills

The Academic Skills Center, part of the Student Success Center, offers self-paced individualized courses and linked study skills courses in a learning laboratory setting. Self-paced courses, listed under "Skills," include reading, writing, grammar, spelling, vocabulary and basic math. In these courses, students work on individualized assignments at their own pace.



Linked Adjunct Study Skills courses are available for certain content courses, which are usually indicated with a footnote in the Schedule of Classes. These half-unit courses combine weekly small group study and skills development labs. Enrollment information for Adjunct Study Skills courses is announced in the content courses during the first week of classes.

Small group workshops on various topics are available to any student enrolled in any Skills class.

General Subject Tutoring

Qualified peer tutors provide free individual, group and drop-in online tutoring in most academic subjects such as business, humanities, social sciences and modern languages during the day and early evening. Students who need assistance in their classes should apply for tutoring early in the quarter.

Math, Science, and Technology Resource Center (MSTRC)

The MSTRC provides a variety of resources that enable students to develop the skills and abilities necessary to succeed in their math courses. Trained tutors provide weekly, drop-in and group tutoring in math and science courses. The center also houses the Math Performance Success (MPS) program, Enable Math and labs.

Location: Building S4, Room 43

Writing, Reading, Listening and Speaking

Part of the SSC is dedicated to providing language skills that empower students to succeed across campus in all their courses. For students at every level and in every discipline, we provide tutoring (drop-in, individual and group) as well as workshops and other opportunities to develop listening, speaking, reading and writing skills.

Student Success and Retention Services Program

The Student Success and Retention Services (SS&RS) program is an academic enrichment and support program that facilitates the matriculation of students with historically low retention, matriculation and transfer rates, and first-generation

college students. The center provides a supportive community of peers, faculty and staff who foster a nurturing environment and encourage the retention and success necessary to enable achievement of student's educational objectives.

Program participants receive educational planning and academic advising, a student study and computer center, peer mentoring and free tutoring, campus tours to four-year universities, scholarship and financial aid information, as well as various academic enrichment workshops.

Location: Student and Community Services Building

Telephone: 408.864.8470

Web site: www.deanza.edu/ssrsc

Technology Resources Group

Working with other groups across campus and in the district, the teams that make up the Technology Resources Group are dedicated to finding the best solutions to achieve the college's instructional goals and meet faculty and student needs.

Services include:

- De Anza Web site technical development, tools and applications
- Video and audio systems engineering and support
- Online instructional technologies (online courses and streaming media)
- Multi-media production, including broadcast, webcast, CD and DVD creation

Location: Building A8, North end of campus near the Flint Center

Transfer Services

The Transfer Center, located in the Student and Community Services Building, assists students who are considering transferring to a four-year degree program. Understanding admission requirements and the transfer process can be time-consuming and confusing. To facilitate the process, the Counseling Center offers the following resources and support services to assist students in researching options, making sound choices and planning a smooth transition between institutions.

- Information about articulation agreements, guaranteed admission programs and impacted majors
- College catalogs from all University of California and California State Universities, many private colleges and universities, and many out-of-state colleges and universities
- ASSIST articulation agreements (online)
- Visits from University of California, California State University, and selected private university representatives to provide transfer advising
- Workshops on guaranteed admission, general education requirements and application procedures
- Drop-in advising to answer quick questions during limited hours

The Transfer Center sponsors special programs throughout the year. All scheduled activities are posted in the Transfer and Counseling centers and online.

Location: Student and Community Services Building

Telephone: 408.864.8841

Web site: www.deanza.edu/transfer

Veterans Affairs

The De Anza College Veterans Services Office assists veterans, reservists, service members, dependents and spouses with the process of applying for and receiving Veterans Educational Benefits. De Anza certifies the Post-9/11 GI Bill, Montgomery GI bill and other assistance programs including VEAP, REAP, DEA, vocational rehabilitation and tuition assistance programs.

To comply with VA regulations, students receiving VA benefits must maintain both satisfactory attendance and grade point average. Students whose GPA falls below a 2.0 for one quarter are notified of unsatisfactory progress. If the GPA remains below 2.0 for a second consecutive quarter, the student's benefits will be suspended.

Location: Student and Community Services Building, Room 111

Appointments: available

Telephone: 408.864.8230

E-mail: pasqualishari@deanza.edu

Web site: www.deanza.edu/veterans

FINANCIAL PLANNING and COLLEGE COSTS

Student Fees

If you are a full-time resident student enrolled in 12 units, you will pay \$17 per unit.* Each quarter this will average \$204 for enrollment fees, plus an average of \$50 in other fees. The nonresident tuition fee is \$119 per unit, and the foreign student tuition fee is \$131 per unit.

De Anza charges additional fees for Campus Center use (mandatory), on-campus parking, lab courses, De Anza Associated Student Body activities (voluntary) and health services (mandatory). International F-1 Visa students are required to purchase comprehensive health insurance for \$422 each quarter.

All fees, listed in our quarterly Schedule of Classes and on the Internet at www.deanza.edu/registration/cashier, are subject to change. Payment and refund policies are listed in the Schedule of Classes and online. Tuition and fees may be refunded under certain circumstances. Please direct questions to the Cashier's Office by e-mail to deanzacashier@deanza.edu.

* Fees are subject to change by California legislative action.

Instructional Materials Fees

For some courses, there will be an instructional materials fee. These fees, shown in the Schedule of Classes, reflect the actual cost for materials, which is usually lower than if you purchased the same items separately. Unless there is an issue of health or safety, you can either pay the fees to the college or provide your own materials of equal quality. A list of materials will be provided by the instructor upon request.

Textbooks and Supplies

You are responsible for purchasing textbooks and supplies including course syllabi, bibliographies and other printed materials in excess of five pages. Some courses require that you purchase additional supplies. The De Anza Bookstore sells all course texts and other items.

Estimated Annual Cost of Attending De Anza College

It is important for you to plan financially for your education. The following cost estimates are calculated for a student attending De Anza College full time and enrolled in 12 units for three quarters or nine months. Costs for out-of-state or nonresident students will be higher.

De Anza College 2010-2011		
Cost of Attendance		
	Living at Home with No Dependents	All Others
Registration and fees	\$ 855	\$ 855
Books and supplies	1,728	1,728
Room and board	4,338	10,872
Transportation	1,170	1,170
Personal and miscellaneous	2,826	2,826
Total	\$10,917	\$17,451

What Is Student Equity?

Student equity is an ongoing, accountable, institutional process that works toward achieving equity in all measurements of student access and achievement across lines of gender, ethnicity, mental and physical ability.

How Does It Relate to Student Success?

Student success is achieved through the partnership formed among the college's faculty and staff and the students. In addition, it is an outcome of institutionalized student equity practices that support students who have a commitment to achieving their academic, career and personal goals. Student success is achieved when students reach their individual goals.

Source: Office of Diversity, De Anza College



COLLEGE POLICIES and GUIDELINES

Academic Freedom

The Foothill-De Anza Community College District Board of Trustees believes that faculty and students have the right to pursue teaching and learning with full freedom of inquiry. In order to assure that this viewpoint is understood by all, the board adopts the following policy.

Academic freedom and academic responsibility are inseparable. Academic freedom is the right of faculty members to interpret findings and communicate conclusions without being subjected to any interference, molestation, or penalization because these conclusions are at variance with those of constituted authorities or organized groups beyond the colleges.

Likewise, the academic freedom of students is the freedom to express and to defend views or beliefs, the freedom to question and to differ, without authoritative repression and without scholastic penalization by the faculty or the colleges.

Academic freedom carries with it corresponding responsibility. Academic responsibility emphasizes the obligation to study, to investigate, to present and interpret, and to discuss facts and ideas concerning human society and the physical and biological world in all branches and fields of knowledge. Since human knowledge is limited and changeable, the faculty member will acknowledge the facts on which controversial views are based and show respect for opinions held by others. While striving to avoid bias, the faculty employee will nevertheless present the conclusions to which he or she believes the evidence points.

College faculty members are citizens, members of a learned profession and officers of educational institutions. When they speak or write as citizens, they should

be free from institutional censorship or discipline, but their special position in the community imposes special obligations. As persons of learning and educational officers, they should remember that the public may judge their profession and their institution by their utterances. Therefore, they should at all times be accurate, should exercise appropriate restraint, should show respect for the opinions of others, and should make every effort to indicate that they are not institutional spokespersons.

It is recognized that all staff members of the college will be guided by the recommendations of the curriculum committees, the administration and the policies approved by the Board of Trustees on the general purposes of the courses offered.

To ensure these principles of academic freedom for De Anza and Foothill colleges, the administrators of the district and the board, as the governing body of the district, will at all times demonstrate their support by actively and openly working toward a climate which will foster this freedom. Such participation will extend to the point of defending and supporting tenured or non-tenured faculty members who, while maintaining the high standards of their profession, find their freedom of expression attacked or curtailed.

Approved 4/20/60. Amended 11/18/96.

Academic Integrity

De Anza College is committed to excellence in the pursuit of learning and academic achievement by its students. To further this goal, the college is committed to providing academic standards that are fair and equitable to all students in an atmosphere that fosters integrity on the part of student, staff and faculty alike. The student's responsibility is to perform to the

best of his/her potential in all academic endeavors. This responsibility also includes abiding by the rules and regulations set forth by individual faculty members related to preparation and completion of assignments and examinations. The submission of work that is not the product of a student's personal effort, or work which in some way circumvents the given rules and regulations, will not be tolerated. It is the responsibility of the faculty to clearly define the requirements and rules applicable to their courses for all students. An applicable paragraph of the California State Educational Code (#76130) is quoted: "Code of Student Conduct: The college has an obligation to specify those standards of behavior essential to its educational mission and campus life. The following types of misconduct for which students are subject to disciplinary sanction apply at all times on campus as well as to any off-campus functions sponsored or supervised by the college: cheating, plagiarism or knowingly furnishing false information in the classroom or to a college officer."

Academic Renewal

Students may request that up to 45 units of De Anza coursework be disregarded (three consecutive quarters plus a summer session) and not calculated into their cumulative GPA (sections 55764 and 55765 of the California Administrative Code) when such work does not reflect their current ability.

Academic renewal at De Anza College does not guarantee that other colleges will accept this action, which is at the discretion of the transfer institution.

Approval of Academic Renewal requests is subject to the following conditions:

1. Two years must have elapsed since the last quarter to be disregarded was completed.

2. Since the last quarter to be considered for Academic Renewal, students must have completed at least:

15 units with a 3.0 GPA, or
30 units with a 2.5 GPA, or
45 units with a 2.0 GPA.

(Work completed at another institution may be considered in determining total units accrued.)

3. All work to be disregarded in the specific quarters, even if satisfactory (passing grades), will not be applied toward unit requirements or calculated into the GPA.
4. Although none of the units completed in the affected quarters will be counted toward a degree, courses completed with grades of C, CR, or better may be used to

satisfy major or general education requirements.

5. Students may petition for academic renewal only once.
6. Student transcripts reflect all work including that disregarded through academic renewal to ensure a true, complete academic history.
7. Students cannot use academic renewal to qualify for honors at graduation.

Activities Preceding Final Examinations

Student activities will not be scheduled during the three school days preceding final examinations. However, classes and instruction continue as usual. A portion of the final examination may be scheduled during this period to allow for additional time if needed.

Advanced Placement Examinations (AP Exams)

Some AP exams with qualifying scores are accepted at De Anza College for granting credit and/or course placement. Official (sealed) exam reports should be submitted to the Assessment Center. For more information, contact the Assessment Center.

Location: Student and Community Services Building

Telephone: 408.864.8717

Antidiscrimination

De Anza College is committed to equal opportunity regardless of age, gender, marital status, disability, race, color, sexual orientation, religion, national origin, or other similar factors, for admission to the college, enrollment in classes, student

Antidiscrimination Policy in Spanish, Traditional Chinese and Vietnamese

Anti-discriminación

De Anza College se compromete a brindar la igualdad de oportunidad a todo individuo que solicite ingresar a la universidad, que desee inscribirse en clases, que solicite servicios estudiantiles, ayuda financiera o empleo, sin importar la edad, el sexo, el estado civil, la incapacidad, la raza, el color de la piel, la preferencia sexual, la religión, la nacionalidad, o factores similares, según lo estipulado por Title VI del Acta de Derechos Civiles de 1964, Title IX de la Enmienda a la Educación de 1972 (45CRF 86), Sección 504, 1990. El hecho que un individuo no pueda manejar el inglés con facilidad no será un obstáculo para ser admitido a la universidad ni para participar en los programas de educación vocacional.

Todo individuo que desee información tocante a estas leyes o pólizas o que desee presentar una queja debido a supuestas violaciones de Title VI del Acta de los Derechos Civiles de 1964, Title IX de la Enmienda a la Educación de 1972 (45CRF 86), y Sección 504 del Acta de Rehabilitación de 1973, debe ponerse en contacto con Michele LeBleu-Burns, decana de Desarrollo Estudiantil y EOPS, o con su designado, marcando el 408.864.8828. Todo individuo que desee información sobre el Acta de Americanos Deshabilitados de 1990, o que desee presentar una queja debido a supuestas violaciones de dicha acta, debe ponerse en contacto con Jim Haynes, decano de Educación Especial y Tecnologías Especiales, o con su designado, marcando el 408.864.8954.

Toda queja será revisada según los términos que dicta la ley con respecto a Title VI y Title IX. A todas las personas involucradas en el asunto se les informará lo que provee la ley y cuáles son sus derechos legales. Si no existen conductos normales a cuales recurrir, o si estos conductos no cumplen con los requisitos legales, se tomará la acción necesaria para solucionar el problema. La oficina mantendrá récords de todas las quejas que se presenten debido a violaciones de Title VI y Title IX y reportará al Comité Asesor Para La Fomentación De Diversidad Entre Profesores y Empleados sobre la naturaleza de tales quejas y de cómo avanza su resolución.

Todo estudiante que desee entablar una demanda por violaciones a sus derechos civiles y que desee hacerlo fuera del ámbito universitario, debe dirigirse a: Office of Civil Rights, United States Department of Education, 50 United Nations Plaza, Room 239, San Francisco, Ca. 94102.

反對歧視

De Anza 學院對所有申請入學者註冊課程，學生服務，助學金申請和依法*顧用人員方面不論其年齡、性別、婚姻狀況、殘障程度、種族、膚色、性傾向、宗教、國家、及相類似的因素都一律平等對待。(依法：指依據 1964 年民權法第 6 章、1972 年教育修正案第 9 章、1973 年恢復案第 504 條款和 1990 年美國殘障人法) 英語程度低將不會成為註冊和學習職業教育課程的障礙。

任何想詢問有關法律、政策或者對違反 1964 年民權法第 6 章、1972 年教育修正案第 9 章、1973 年恢復案第 504 條款想提出控告的人應該與學生發展部和 EOPS 主任 Michele LeBleu-Burns 或她的指定人聯係。電話是：408-864-8828。任何想詢問有關 1990 年美國殘障人法的資料或者想對違反該法律者提出控告的人應該與特殊教育和應用技術部主任 Jim Haynes 或他的指定人聯係。電話是：408.864.8954。

所有的控告將會根據法律的第 6 章和第 9 章得到復審，凡有關人士都將會被告知他們的合法權利。如果正常渠道行不通或者不符合法律的要求，學校會採取必要的措施。有關第 6 章和第 9 章的控告均會記錄在案，並且向全體教員和職工諮詢委員會報告案子的基本情況及進展和結果。

若學生想利用其合法權利提出超出校級的控告，請直接向美國教育部民權辦公室詢問。地址是：50 United Nations Plaza, Room 239, San Francisco, CA 94102.

Chính sách chống phân biệt đối xử

Đại Học De Anza cam kết cung cấp cơ hội đồng đều cho mọi người, bất kể tuổi tác, giới tính, tình trạng gia đình, tàn phế, chủng tộc, màu da, khuynh hướng tình dục, tôn giáo, nguồn gốc quốc gia hay những nhân tố tương tự khác, trong việc được nhận vào trường, ghi tên theo học các lớp, các dịch vụ dành cho sinh viên, trợ cấp tài chính và công việc làm phù hợp với những dự liệu của Mục VI trong Đạo Luật Nhân Quyền năm 1964, Mục IX của Tu Chính Án về Giáo Dục năm 1972 (45CRF 86), Khoản 504 của Đạo Luật về Phục Hồi năm 1973 (P.L. 93-112), và Đạo Luật về Những Người Mỹ có Khuyết Tật năm 1990. Việc thiếu khả năng Anh Ngữ sẽ không phải là một rào cản việc gia nhập và tham dự các chương trình giáo dục chuyên nghiệp.

Bất cứ ai muốn tìm kiếm những thông tin liên quan tới các đạo luật và chính sách này, hoặc nộp một đơn khiếu nại vì những chỉ dấu cho là có vi phạm Mục VI của Đạo Luật Nhân Quyền năm 1964, Mục IX của Tu Chính Án về Giáo Dục năm 1972 (45CRF86) và Khoản 504 của Đạo Luật về Phục Hồi năm 1973 thì xin liên lạc với Michele LeBleu-Burns, Chủ Nhiệm Khoa Student Development và EOPS ở số điện thoại (408) 864-8828, hoặc người được bà ủy thác để lo việc này. Bất cứ ai muốn tìm kiếm thông tin liên quan hoặc muốn làm đơn khiếu nại vì những chỉ dấu cho là có vi phạm Đạo Luật Những Người Mỹ có Khuyết Tật năm 1990, thì xin liên lạc với Jim Haynes, Chủ Nhiệm Khoa Special Education & Applied Technologies ở số điện thoại 408.864.8954 hoặc người được ông ủy thác để làm việc này.

Mọi khiếu nại đều được duyệt xét lại chiếu Khoản VI và IX của Luật, và những thể nhân có liên quan sẽ được thông tri cho biết về những dự liệu của luật và những quyền pháp định của họ. Nếu những hướng giải quyết thông thường không khả dụng hoặc không đáp ứng được những đòi hỏi về pháp lý, thì biện pháp cần thiết sẽ được áp dụng. Văn phòng sẽ lưu giữ hồ sơ của mọi khiếu nại dựa trên Khoản VI và IX, và sẽ báo cáo cho Faculty and Staff Diversity Advisory Committee về bản chất chung của những khiếu nại này và những tiến triển trong phương cách giải quyết.

Các sinh viên muốn theo đuổi những khiếu nại về nhân quyền trên cấp trường Đại Học thì phải tiếp xúc với Office of Civil Rights Department, United States Department of Education, ở số 50 United Nations Plaza, Phòng 239, San Francisco, CA 94102

services, financial aid, and employment in accordance with the provisions of Title VI of the 1964 Civil Rights Act, Title IX of the Educational Amendments of 1972 (45CRF 86), Section 504, Rehabilitation Act of 1973 (P.L. 93-112), and the Americans With Disabilities Act of 1990. The lack of English language skills will not be a barrier to admission and participation in vocational education programs.

Any person seeking information concerning these laws and policies or filing a complaint because of alleged violations of Title VI of the 1964 Civil Rights Act, Title IX of the Educational Amendments of 1972 (45CRF 86), and Sec. 504 of the Rehabilitation Act of 1973 should contact Michele LeBleu-Burns, dean of Student Development and EOPS at 408.864.8828 or the vice president of Student Services at 408.864.8330. Any person seeking information concerning or filing a complaint because of alleged violations of the Americans with Disabilities Act of 1990 should contact Michele Le Bleu-Burns, dean of Student Development and EOPS, at 408.864.8218; or her designee.

All complaints will be reviewed in terms of Title VI and Title IX law, and persons involved will be advised of the provisions of the law and their legal rights. If normal channels are not available or fail to meet legal requirements, the necessary action will be initiated. The office will maintain a record of all Title VI and Title IX complaints, and will report to the Faculty and Staff Diversity Advisory Committee the general nature of such complaints and progress toward their resolution.

Students wishing to pursue a civil rights complaint beyond the college level should direct their inquiries to: Office of Civil Rights, United States Department of Education, 50 United Nations Plaza, Room 239, San Francisco, CA 94102.

Admission Policies

Residency Requirements

California Residents

Students who have established California residency for at least one year prior to the term in which they wish to enroll and have met residency conditions required by state regulations may enroll as California residents for tuition purposes.

Nonresidents

California residents and residents of other states or territories who have not resided in the state for one year prior to the term in which they wish to enroll, must pay nonresident tuition when attending De Anza.

Students holding various visas, or undocumented or out-of-status aliens, may not establish residency and must pay nonresident tuition when enrolling at De Anza. Other nonresidents may be able to establish residency if they meet the requirements of California Education Code 68062. Still others may be exempted from paying nonresident fees through AB540 eligibility (68130.5), which allows certain nonresident students who have attended a California high school for three years and earned a degree or equivalent to be charged resident fees. (Students with non-student visas or who are out of status or undocumented should call the Admissions and Records Office at 408.864.8722 to determine residency and discuss other attendance eligibility requirements.)

Students on F, J or M visas attending another college, but who wish to take a class at De Anza, must submit an official letter from the host college issuing their I-20. This letter should state the student's standing, confirm full-time status, and provide authorization for the student to take specific De Anza classes.

Students seeking residency eligibility based on military active duty status, military dependent status or other military considerations, should contact the Admissions Veterans Office at 408.864.8722 for specific eligibility criteria.

Students who have had a change in their residency and were initially charged out-of-state fees in error may request a refund within the academic year (prior to June 30) of the documented residency change. No refunds for prior fees paid due to a residency error are available after the academic year in which the error occurred has elapsed.

The Foothill-De Anza District uses CCCApply as its admissions application. This application is very strict about meeting state residency requirements and many

applicants are initially given non-resident status based on application answers. Applicants who believe they meet residency requirements need to complete a Residency Reclassification form and provide state-approved documentation for review.

Admission Requirements

De Anza College admits anyone with a high school or general education diploma (GED), a proficiency certificate, or who is 18 years old and demonstrates the ability to benefit from college instruction. High school (concurrently enrolled) students may attend De Anza if they have completed their sophomore year, and have submitted a permission form signed by their high school principal and parent/guardian. High school students who do not provide required documents will be dropped from their courses.

Course Repetition

Students may repeat any course for which they have earned an F, D or NP twice, in accordance with California community college regulations (55042). The second grade will supersede the first in calculating the student's GPA, but the initial course and grade will remain on the permanent record. If a student repeats a class for a third time, the GPA will include the third grade and not the first two grades earned. No student may repeat a course in which they have earned any grade P/C or above unless they petition with documented proof that they must repeat the course due to an extended lapse in time or to upgrade skills as part of recertification.

Students who are requesting repetition for a course prerequisite they have failed twice may repeat the course one additional time. Students who do not successfully complete the course a third time, may be advised to audit lower level courses for which they have previously received a passing grade in order to update skills; choose a different elective to fulfill graduation requirements; or receive permission to complete the course at another institution.

Students who have earned more than four W's for the same course will not be allowed to re-enroll in that course (55024).

Classification of Students

FRESHMAN: Students who have completed fewer than 45 quarter units of college credit.

SOPHOMORE: Students who have completed 45 or more quarter units of college credit and have not earned a degree.

Excessive Drops

Per recent changes in state regulations (58161.5), students who have earned four Withdrawals (W) in any one course, will be blocked from future enrollment in that course. In such cases, students may have to meet with a counselor or division representative to discuss strategies for completing requirements prior to reenrolling. Once the student has met with a counselor, permission to re-enroll in the course may be given. If the student does not complete the fifth attempt of the course, a symbol other than W (i.e., a grade) must be assigned on the permanent record.

High School Admissions (Concurrent Enrollment)

Beginning with the summer session, students who have completed their sophomore year of high school may apply to De Anza as special part-time students. California regulations restrict high school students to take classes that are: enrichment, vocational or are otherwise unavailable at their high schools. High school students may not enroll in basic skills, ESL, guidance or other restricted courses outlined by state guidelines. They may not enroll in more than 11 units per term (no more than 5 1/2 units is recommended for summer session).

High school students wishing to enroll in English, math or some science classes must complete an assessment. In addition, high school students attending De Anza classes are held to the same requirements, standards and policies as any other student, and receive the same FERPA (Family Educational Rights and Privacy Act) protections. College records are not automatically sent to the student's high school and transcripts should be requested through the college Web site. More information regarding concurrent enrollment is available at www.deanza.edu/admissions/hschecklist.html.

Service Areas

The Foothill-De Anza Community College District operates two colleges—De Anza College in Cupertino and Foothill College in Los Altos Hills. De Anza College serves the Fremont Union High School District, which includes Cupertino, Monte Vista, and parts of Sunnyvale, San Jose, Santa Clara, Los Altos and Saratoga. Foothill College primarily serves the communities of Palo Alto, Los Altos, Mountain View and Los Altos Hills. These cities are in the Palo Alto Unified School District and the Mountain View-Los Altos Union High School Districts.

High School Completion

Many high schools recommend that students 18 years or older without a high school diploma complete their high school requirements by taking college courses. Students choosing to earn a diploma in this way should obtain a statement from their host high school principal or counselor indicating:

1. The necessary subjects to meet graduation requirements and the number of quarter credits in each;
2. A list of De Anza courses that may satisfy these high school requirements;
3. The total number of quarter units required, including electives; and
4. Approval to use De Anza credit to meet high school requirements.

The California Department of Education recommends that college credit equal twice the number of units earned in high school; for example, two college units equal four high school semester periods.

Once De Anza courses have been completed, students should request that an official transcript be sent to the high school. Students may also enroll in additional courses not required for the diploma.

Evening and Weekend Classes

De Anza offers a wide range of evening and weekend courses on campus, at other Cupertino and Sunnyvale sites and online. Certain services are available on a limited basis on Saturdays. Check the De Anza Web site www.deanza.edu and the schedule of classes for hours of operation.

Evening Coordinator: Administration

Building

Telephone: 408.864.8333

Summer Sessions

De Anza offers day and evening summer classes in sessions of varying lengths. Summer courses are comparable in academic standards, content and earn similar credits as classes offered during regular quarters. Summer enrollment enables students to complete prerequisites, or accelerate their progress. It also allows high school students who have completed their sophomore year to take enrichment or vocational courses, or enhance their college applications by completing college level work. All regular term attendance and academic policies apply to summer sessions.

Attendance

Instructors determine individual class attendance policies, which are distributed to students at the beginning of each quarter. State guidelines also recommend that absences in excess of one week's class meetings may be considered excessive. Excessive absences may result in students being dropped from the course.

Auditing Classes

Students who have satisfactorily completed a class for the maximum allowable times may be able to audit. Instructor and division dean approval is required. Audit requests cannot be processed until the second week of class or later. A \$10 per unit fee is assessed for audited classes. Course audit request forms are available at www.deanza.edu/registration/forms.html.

Catalog Rights

The college catalog serves as an agreement between the college and students. Students should be aware of published requirements, regulations and guidelines. De Anza students may follow the degree/certificate and general education requirements in effect for the catalog year in which they first enroll, or any subsequent catalog, providing they are continuously enrolled. Students may choose one catalog year for meeting general education requirements and another catalog year for meeting major requirements. It is recommended, however, that students choose the most recent catalog year for completing major requirements.

De Anza reserves the right to change catalog rights by modifying program requirements based upon legal mandate and accreditation standards.

College Level Examination Program (CLEP) Examinations

Some CLEP exams with qualifying scores are accepted at De Anza College for granting credit and/or course placement. Official (sealed) exam reports should be submitted to the Assessment Center. For more information, contact the Assessment Center.

Location: Student and Community
Services Building

Telephone: 408.864.8717

Computer and Network Use

Rights and Responsibilities (BP 3250)

Foothill-De Anza Community College District ("district") owns and operates a variety of computer and communication systems, including voicemail, electronic mail (e-mail), telephone and access to the Internet, which are provided for the use of district faculty, administrators, staff and students in support of the programs of the colleges and district. Hereinafter, this system and all of its component parts shall be referred to as the "district network." This network establishes a communications platform that often substitutes for in-person meetings regarding district business.

The Computer and Network Use: Rights and Responsibilities Policy 3250 ("the policy") applies to all members of the district community using the district network including faculty, administrators, staff, students, independent contractors and authorized guests. The policy covers use of computer equipment and communication systems at any district facility in computer labs, classrooms, offices, libraries and the use of the district servers and networks from any location. If any provision of this policy is found to be legally invalid it shall not affect other provisions of the policy as long as they can be effective without the invalid provision.

Ownership Rights

The policy is based upon and shall be interpreted according to the following fundamental principle: the entire district

network, and all hardware and software components within it, is the sole property of the district which sets the terms and conditions of its use consistent with the law. Except as provided in board policy or collective bargaining agreements pertaining to intellectual property rights, employees and students have no rights of ownership to these systems or to the information they contain by virtue of their use of all or any portion of the district network.

Privacy Interests

The district recognizes the privacy interests of faculty and staff and their rights to freedom of speech, participatory governance and academic freedom as well as their rights to engage in protected union and concerted activity. However, both the nature of electronic communication and the public character of district business make electronic communication less private than many users anticipate. In addition the district network can be subject to authorized and unauthorized access by both internal and external users. For these reasons, there are virtually no online activities or services that guarantee an absolute right of privacy, and therefore the district network is not to be relied upon as confidential or private. Nonetheless, the district seeks to afford e-mail communication privacy protections comparable to those it traditionally affords paper mail and telephone communications.

District Rights

System administrators may access user files or suspend services they manage without notice:

1. to protect the integrity of computer systems;
2. under time-dependent, critical operational circumstances;
3. as required by and consistent with the law; or
4. when it is reasonable to believe that violations of law or district policy or procedures have occurred.

For example, system administrators, following organizational guidelines, may access or examine individual files or accounts based on suspicion that they have been corrupted or damaged or subject to unauthorized use or misuse. In such cases of access without notice, data or information acquired may be used to initiate or extend an investigation related to the initial cause or as

required by law or Board policy. Such data or information may also be used as grounds for appropriate personnel action.

User Rights

While the district monitors electronic usage as part of its normal network operating procedures, the district does not routinely inspect or monitor users' computer hardware or files, e-mail, and/or telephone message system, nor disclose information created or stored in such media without the user's consent. The district shall attempt to notify users before accessing computer hardware and files or prior to suspending service. In the event that the district acts without user consent, under its District Rights specified above, the district shall do so with the least perusal of contents and the least action necessary to resolve the immediate situation. When the district accesses files without user consent, it shall notify the user as soon as possible of its access and provide the reason for its action.

User Responsibilities

The Board recognizes that computers and networks can provide access to resources on and off campus, as well as the ability to communicate with other users worldwide. Such open access is a privilege and requires that individual users act responsibly. Users must respect the rights of other users, respect the integrity of the systems and related physical resources and observe all relevant law, regulations and contractual obligations. For district employees, the intended uses of the district network are those which are reasonable and necessary for the pursuit of job duties; for students, the intended uses are those which are reasonable and necessary for the pursuit of instructional activities. Although personal use is not an intended use, the district recognizes that the network will be used for incidental personal activities provided that such use is within reason and provided that such usage is ordinarily on an employee's own time, is occasional, and does not interfere with or burden the district's operation.

"Unauthorized uses" include prohibited uses and any other use for a prohibited purpose, including illegal activities, messages which may constitute discrimination or harassment under state or federal law, or anything that interferes with the intended use. These types of prohibited

uses and purposes are further defined in *Administrative Procedure 3250*.

All users of the district network must read, understand and comply with this policy as well as *Administrative Procedures 3250*, and any additional guidelines established by the district. Such guidelines will be reviewed by the district and may become subject to Board approval as a district policy or procedure. By using any part of the district network, users agree that they will comply with this policy.

Copies of this policy can be found in the policies section of the college catalogues, schedules of classes, student handbooks, faculty handbooks, new classified employee handbook, and the handbook for new administrators. Copies of this policy are also available in the District Human Resources Office, the Office of the Dean of Student Development and EOPS (De Anza), the Office of the Dean of Student Affairs and Activities (Foothill), and on the district's Web site at www.fhda.edu.

Enforcement of the Policy

The Board directs the Chancellor or designee to enforce all existing federal and state law and district and college policies, including not only those laws and regulations that are specific to computers and networks but also those that apply generally to personal conduct. Violations of this policy will be dealt with in the same manner as violations of other district policies or standards of behavior and may result in disciplinary action, subject to applicable due process requirements.

Users who believe this policy has been misinterpreted or misapplied may file a complaint in accordance with the Complaint Procedures found in *Administrative Procedures 3250*. Students who do not observe the requirements of this policy may be in violation of the Student Code of Conduct and subject to student discipline.

This policy and *Administrative Procedures 3250* shall be distributed to all new and existing employees. Nothing in this policy should be construed to interfere with First Amendment rights or with the academic freedom of faculty as outlined in Board Policy 4190.

Both the Board Policy Manual and Administrative Procedures Appendix may be found at www.fhda.edu/about_us/board/policy.

Misuse of Computer Information (AP 3250)

This administrative procedure implements Board Policy 3250.

Abuse of computing, networking or information resources contained in or part of the District Network may result in the loss of computing privileges. Additionally, abuse can be prosecuted under applicable statutes. Users may be held accountable for their conduct under any applicable District or college policies, procedures, or collective bargaining agreements. Complaints alleging abuse of the District Network will be directed to those responsible for taking appropriate disciplinary action. Illegal reproduction of material protected by U.S. Copyright Law is subject to civil damages and criminal penalties including fines and imprisonment.

Examples of behaviors constituting abuse which violate District Board Policy 3250 include, but are not limited to, the following activities:

System Abuse

- Using a computer account that one is not authorized to use
- Obtaining a password for a computer account that one is not authorized to have.
- Using the District Network to gain unauthorized access to any computer systems.
- Knowingly performing an act which will interfere with the normal operation of computers, terminals, peripherals or networks.
- Knowingly running or installing on any computer system or network, or giving to another user, a program intended to damage or to place excessive load on a computer system or network. This includes but is not limited to programs known as computer viruses, Trojan horses and worms.
- Knowingly or carelessly allowing someone else to use your account who engages in any misuse in violation of Board Policy 3250 or of this AP 3250.
- Forging e-mail messages.
- Attempting to circumvent data protection schemes or uncover or exploit security loopholes.

- Masking the identity of an account or machine.
- Deliberately wasting computing resources
- Downloading, displaying, uploading or transmitting obscenity or pornography, as legally defined.
- Attempting without District authorization to monitor or tamper with another user's electronic communications, or changing, or deleting another user's files or software without the explicit agreement of the owner, or any activity which is illegal under California Computer Crime Laws.
- Personal use which is excessive or interferes with the user's or others' performance of job duties, or otherwise burdens the intended use of the Network.
- Illegal downloading and/or distribution of copyright-protected materials, including but not limited to music and videos.

Harassment

- Using the telephone, e-mail or voice mail to harass or threaten others.
- Knowingly downloading, displaying or transmitting by use of the District Network, communications, pictures, drawings or depictions that contain ethnic slurs, racial epithets, or anything that may be construed as harassment or disparagement of others based on their race, national origin, sex, sexual orientation, age, disability, religious or political belief.
- Knowingly downloading, displaying or transmitting by use of the District Network sexually explicit images, messages, pictures, or cartoons when done to harass or for the purposes of harassment.
- Knowingly downloading, displaying or transmitting by use of the District Network sexually harassing images or text in a public computer facility, or location that can potentially be in view of other individuals.

- Posting on electronic bulletin boards material that violates existing laws or the colleges' Codes of Conduct.
- Using the District Network to publish false or defamatory information about another person.

Commercial Use

- Using the District Network for any commercial activity, without written authorization from the District. "Commercial activity" means for financial remuneration or designed to lead to financial remuneration.

Copyright

- Violating terms of applicable software licensing agreements or copyright laws.
- Publishing copyrighted material without the consent of the owner on District Web sites in violation of copyright laws.

Exceptions

Activities by technical staff, as authorized by appropriate District or college officials, to take action for security, enforcement, technical support, troubleshooting or performance testing purposes will not be considered abuse of the Network.

Although personal use is not an intended use, the District recognizes that the Network will be used for incidental personal activities and will take no disciplinary action provided that such use is within reason and provided that such usage is ordinarily on an employee's own time; is occasional and does not interfere with or burden the District's operation. Likewise, the District will not purposefully surveil or punish reasonable use of the network for union business-related communication between employees and their unions.

Complaints

A user who asserts that the District or District personnel have violated this policy shall file a complaint with his or her immediate supervisor with a copy to the Vice Chancellor of Human Resources, and a copy to the employee's bargaining unit. The supervisor shall notify the supervisor of the alleged violator to discuss the complaint. The supervisor of the complainant shall initiate an investigation if necessary and determine an appropriate

remedy/resolution in consultation with the Vice Chancellor of Human Resources. In cases where the supervisor is part of the complaint, the complaint shall be filed with the next level of supervision for investigation and resolution and/or remedy. The complainant shall be informed in writing 1) of the initiation of the investigation, and 2) of its outcome as appropriate, with copies to the Vice Chancellor of Human Resources and the employee's bargaining unit. Complainants dissatisfied with the resolution/remedy have full recourse to relevant contractual protections and/or legal action.

Illegal Distribution of Copyrighted Materials

De Anza College students are prohibited from using the Foothill-De Anza (FHDA) Community College District's information network to illegally download or share music, video and all other copyrighted intellectual property. De Anza College supports the Higher Education Opportunity Act and the Digital Millennium Copyright Act including efforts to eliminate the illegal distribution of copyrighted material. Under the law, college administrators may be obligated to provide copyright holders with information about users of the FHDA information network who have violated the law.

Be aware that illegal forms of downloading and file-sharing as well as the unauthorized distribution of copyrighted materials, including unauthorized peer-to-peer file sharing, are violations of the law and may subject you not only to academic sanctions from the college but also criminal and civil penalties, including a lawsuit against you by the Recording Industry Association of America (RIAA). Learn more at www.campusdownloading.com.

Penalties for copyright infringement include civil and criminal penalties. In general, anyone found liable for civil copyright infringement may be ordered to pay either actual damages or "statutory" damages affixed at not less than \$750 and not more than \$30,000 per work infringed. For "willful" infringement, a court may award up to \$150,000 per work infringed. A court can, in its discretion, also assess costs and attorneys' fees. For details, see Title 17, United States Code,

Sections 504 and 505. Willful copyright infringement can also result in criminal penalties, including imprisonment of up to five years and fines of up to \$250,000 per offense. For more information, please see the Web site of the U.S. Copyright Office at www.copyright.gov, especially their FAQ's at www.copyright.gov/help/faq.

In addition to being illegal, file sharing drains the FHDA network's bandwidth, which slows computer connections for students and employees who are using the network for legitimate academic purposes and ultimately costs the college money.

The college has developed policies and consequences to ensure that students respect music and other forms of intellectual property as well as make responsible use of the Internet.

There are plenty of easy, affordable ways to get music online legally. To protect their intellectual property, companies have licensed hundreds of digital partners that offer a range of legal downloading options, including download and subscription services, legitimate peer-to-peer services, video-on-demand, podcasts and CD kiosks. For a list of sources that offer legal downloading sites, access www.campusdownloading.com/legal.htm or www.educause.edu/Resources/Browse/LegalDownloading/33381.

Continuous Enrollment

For the purpose of determining the catalog year used to evaluate degree or certificate requirements, students must be continuously enrolled since that term. Continuous enrollment is equal to at least one semester or two quarters each academic year at De Anza, Foothill, CSU, UC or any other California community college. A single "W" in a term qualifies as enrollment in that term.

Credit by Examination (CBE)

Students seeking credit by examination must first successfully complete 15 units at De Anza. Following this, students may file for credit by examination during any regular quarter for courses in which s/he is especially qualified through previous training or experience, and for which prior

AP or college credit has not been awarded. Students may obtain the appropriate forms from the Counseling and Advising Center.

Additional requirements for credit by examination:

1. Student must be enrolled in the courses and the instructor has outlined successful completion requirements.
2. No course may be challenged after meeting twice the number of meetings per week.
3. Students may not request CBE for courses for which they have already earned a grade.
4. CBE units may not be used to meet the 24 residency units required to earn a De Anza degree.
5. No more than 45 CBE units may be earned.
6. Students who successfully challenge a course through credit by examination may not subsequently challenge a course normally preceding it; for example, challenging Chemistry 1B and then challenging Chemistry 1A.
7. When transferring to another college or university, accepting credit by examination requirements/units is at the discretion of the transfer institution.

Challenge is limited to those courses recommended by the divisions and approved by the vice president of Instruction. Special limitations exist for challenging courses in sequence. The examination may include oral, written, or skill tests, or a combination and will be sufficiently comprehensive to assess the student's knowledge and skills commensurate with a student successfully completing the course.

The credit by examination grade will be noted on the student's transcript at the end of the quarter. Students who do not successfully challenge may not remain enrolled in the course.

The following courses are challengeable:

Applied Technologies

AUTO 50A and 50B (*Must pass both to receive credit.*)

Biological, Health and Environmental Sciences

HTEC 60A
NURS 50

Business/Computer Systems

ACCT 1A
CAOS 150A and 150B
CIS 2, 31, 50, 66, 67A, 67B, 74, 75A, 156A, 156B, 171A, 171B, 171C, 171D, 172, 172A, 173, 174, 174A, 175, 175A (*CIS classes that have lab hours are not challengeable.*)

Creative Arts

ARTS 53A
F/TV 20

Intercultural/International Studies

The Foreign Language Department does not give credit by examination for any foreign language class.

Students can place at the appropriate level in the foreign language curriculum, depending on their language proficiency level.

Language Arts

JOUR 61

Physical Science/Math/Engineering

None

Social Science

ADMJ 1

A special no-credit challenge exam is available to meet the California State/Local Government portion of the CSU United States History, Constitution and American Ideals requirement.

Crime Awareness and Campus Security Summary Report

In compliance with Section 201 Public Law 101-542, as amended by Public Law 102-26, De Anza College provides the following Crime Awareness & Campus Security Act Summary Report for students, faculty and staff:

Crime	Year 2009	Year 2008	Year 2007
Aggravated assault	0	0	0
Arson	0	0	0
Burglary	22	27	28
Homicide	0	0	0
Vehicle theft	3	1	1
Rape	0	0	0
Robbery	0	1	1

Arrests

Statistics concerning the number of arrests for the following crimes occurring on campus:

	Year 2009	Year 2008	Year 2007
Alcohol violations	0	1	0
Drug violations	1	1	1
Warrants	1	1	1
Other	3	1	4

DASB Card Policies

1. The DASB Card is the property of De Anza Associated Student Body and entitles the student to access and service privileges as long as the De Anza Student Body fees are current. Certain access and privileges may be denied if fees are delinquent or otherwise not current.
2. The initial DASB Card is free with the payment of the quarterly student body fees. Subsequent or replacement cards are subject to existing Replacement Card Policies and will be charged a \$5 fee. To avoid paying the replacement fee, students are encouraged to retain the card for future use when not continuously enrolled or when leaving campus for the summer.
3. The DASB Card will serve as an official ID card for access to numerous labs and the library as well as events and services on campus. Therefore, the card should be carried at all times while students are on campus and at campus-sponsored events.
4. The DASB Card shall not be transferred, altered or tampered with in any way except as authorized by De Anza College officials. Strict penalties may apply for unauthorized actions.
5. With the exception of the campus police, campus departments may not hold the DASB Card for any reason. Recovered cards should be returned to the Card Office immediately. The card must be surrendered when issued a replacement.

6. If the DASB Card is lost, stolen or damaged, the Card Office should be notified immediately.
7. The DASB Card should be treated as cash and kept secured at all times. Students are advised not to give their card to anyone at any time. The maximum amount of dollars that can be placed on the unsecured electronic cash purse is \$100. Purchases made with your DASB Card over \$25 will require a PIN ID. Additional purses will be available on your DASB Card at a future date for higher dollar amount, secured purchases.

Replacement Fee

8. The replacement fee is \$5.
9. If a person is not registered for one full year, s/he will not be charged a replacement fee for a new card.
10. If the DASB Card is stolen, the replacement fee will be waived if a police report from the Santa Clara County Sheriff's Office is provided to the Card Office.

Refund

11. Students are advised not to give their card to anyone at any time. If the DASB Card is lost/stolen/damaged, money in the unsecured electronic cash purse cannot be refunded until the card is located or destroyed and the amount is verified. All refunds will be issued by check.
12. If the DASB Card is found/returned subsequent to the issuance of a new card, money that can be verified to be in the electronic cash purse can be transferred to the new card.
13. If a student is leaving campus permanently and wishes to turn in the DASB Card, a refund can be requested for the amount verified in the unsecured electronic cash purse.

The DASB Card policies are subject to change. **December 2005**

Drug and Alcohol Policy

The unlawful possession, use or distribution of any illicit drug or alcohol by students or employees on college property or at college-sponsored activities or events is prohibited. Violation may constitute criminal conduct which could result in criminal prosecution under state and/or federal law. It is the policy of the college to impose appropriate disciplinary sanctions on employees and students for the unlawful possession, use or distribution of illicit drugs or alcohol. Appropriate disciplinary sanctions may include suspension or expulsion for students or suspension or termination for employees, and may also include requiring the completion of a rehabilitation program. The standards of conduct for students and the applicable sanctions for violating the standards are contained in the Foothill-De Anza Community College District Board Policy on Student Rights and Responsibilities AP5510 and AP5520. The standards of conduct and sanctions applicable to employees are contained in the Foothill-De Anza Community College District Board Policy on a Drug-Free Workplace, Board Policy Number 4500, in the applicable collective bargaining agreements and in employee handbooks.

Due Process Procedures and Student Conduct

Individuals who elect to become students at De Anza College are afforded certain rights and privileges outlined in the De Anza College Students Rights and Responsibilities Policy and, at the same time, assume certain obligations for their personal conduct as set forth in the De Anza College Due Process Procedures. For additional information, refer to the college policy on Student Rights and Responsibilities, which can be obtained from the offices of the De Anza College

President, Vice President of Instruction, Vice President of Student Services, Dean of Student Development, and the Office of College Life (formerly Student Activities).

Family Educational Rights and Privacy Act (FERPA)

The Family Educational Rights and Privacy Act (FERPA) (20 U.S.C. § 1232g; 34 CFR Part 99) is a Federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education.

FERPA gives parents certain rights with respect to their children's education records. These rights transfer to the student when he or she reaches the age of 18 or attends a school beyond the high school level. Students to whom the rights have transferred are "eligible students."

- Eligible students have the right to inspect and review the student's education records maintained by the school. Schools are not required to provide copies of records unless, for reasons such as great distance, it is impossible for parents or eligible students to review the records. Schools may charge a fee for copies.
- Students have the right to request that a school correct records that they believe to be inaccurate or misleading. If the school decides not to amend the record, the student then has the right to a formal hearing. After the hearing, if the school still decides not to amend the record, the student has the right to place a statement with the record setting forth his or her view about the contested information.

De Anza College.
Just What You Need

- Generally, schools must have written permission from the student in order to release any information from a student's education record. However, FERPA allows schools to disclose those records, without consent, to the following parties or under the following conditions (34 CFR § 99.31):

- ❑ school officials with legitimate educational interest;
- ❑ other schools to which a student is transferring;
- ❑ specified officials for audit or evaluation purposes;
- ❑ appropriate parties in connection with financial aid to a student;
- ❑ organizations conducting certain studies for or on behalf of the school;
- ❑ accrediting organizations;
- ❑ to comply with a judicial order or lawfully issued subpoena;
- ❑ appropriate officials in cases of health and safety emergencies; and
- ❑ state and local authorities, within a juvenile justice system, pursuant to specific state law.

Schools may disclose, without consent, "directory" information such as a student's name, address, telephone number, date and place of birth, honors and awards, and dates of attendance. However, schools must tell students about directory information and allow students a reasonable amount of time to request that the school not disclose directory information about them. Schools must notify students annually of their rights under FERPA. The actual means of notification (special letter, inclusion in a PTA bulletin, student handbook or newspaper article) is left to the discretion of each school.

Foothill-De Anza Administrative Board Policy AP 5045 also identifies the college registrar as the "Records Officer" required by FERPA. Current and former students can review their education records by completing or filing a request in the

Admissions and Records Office. Such records will be made immediately available when possible or within 15 days of written request. If the review results in a dispute, the college registrar will initiate an informal proceeding in an attempt to resolve the matter. If the dispute continues, a grievance may be filed with the vice president of Student Services.

Final Examinations

Final examinations are to be given in all courses. Students are responsible for taking final examinations at the scheduled time. Schedules are published in each quarter's Schedule of Classes. Two hours will be scheduled for examinations.

Not included in the schedule are final examinations for courses shorter in length than one quarter. Final examinations for these courses will be given at the last class meeting.

Students who miss a final examination for a legitimate reason should communicate with their instructor at once to arrange for an "I" grade. Final examinations normally will not be given in advance of the scheduled time.

Grading System

Grades are earned in each course and are recorded on the student's permanent record. Evaluation of student achievement will be made in relation to the attainment of the specific objectives of the course. At the beginning of a course, the instructor will explain these objectives and the basis upon which grades are determined.

Dean's List Policy

Part-time students (those taking fewer than 12 units per quarter) must have accumulated at least 12 units; cumulative GPA must be at least 3.00; and quarterly GPA must be 3.30 or higher.

Full-time students (those taking 12 or more quarter units) must have a quarterly GPA of 3.30 or higher. There is no minimum requirement for cumulative units or cumulative GPA for full-time students.

Grade Changes

Title 5 of the California State Administrative Code states, "The determination of the student's grade by the instructor shall be final in the absence of mistake, fraud, bad faith or incompetency." If students believe

corrections should be made within the above restriction, they should first talk to their instructors. Corrections must be initiated within two years of completing any course in which a grade is being disputed.

Grade definitions are as follows:

Evaluative Symbols

Grade Points

A+	Excellent	4.0
A	Excellent	4.0
A-	Excellent	3.7
B+	Good	3.3
B	Good	3.0
B-	Good	2.7
C+	Satisfactory	2.3
C	Satisfactory	2.0
D+	Passing, less than satisfactory	1.3
D	Passing, less than satisfactory	1.0
D-	Passing, less than satisfactory	0.7
F	Failing	0.0

P Pass (at least satisfactory—units awarded not counted in GPA). This grade is assigned to those courses in which student achievement is evaluated on a Pass-No Pass basis rather than a letter grade (A, B, C, etc.). P-NP courses are so designated in the Announcement of Courses section of the catalog.

NP No Pass (less than satisfactory, or failing—units not counted in GPA). Not attaining course objectives. (Does not affect grade point average at De Anza.)

Non-Evaluative Symbols

(Not to be used in calculating GPA.)

I Incomplete. Incomplete academic work for unforeseeable, emergency and justifiable reasons at the end of the term. The student and the instructor file a contract for an incomplete grade with the Office of Admissions and Records, indicating the reason the incomplete grade was assigned and the conditions under which the grade of "I" can be removed. Also indicated on the contract form will be the grade to be awarded if the conditions for removal of the "I" are not met within a one year period. Either the grade earned by meeting the specified conditions or the default grade indicated in the contract will replace the "I" no later than one year from the time the "I" was originally given.

IP In Progress. The “IP” symbol is used to denote that the class extends beyond the normal end of an academic term. It indicates that work is “in progress,” but that assignment of a substantive grade must await its completion. The “IP” symbol will remain on the student’s permanent record in order to satisfy enrollment documentation. Unit credit will be assigned and appear on the student’s record for the term in which the course is completed.

RD Report Delayed. The “RD” symbol may be assigned by the Office of Admissions and Records only. It is to be used when there is a delay in reporting the grade of a student due to circumstances beyond the control of the student. It is a temporary notation to be replaced by a permanent symbol as soon as possible.

W Withdrawal. A “W” is assigned to drops from the end of the third week of the quarter (For courses shorter than 12 weeks, it is 25 percent of the term.)* through the end of the eighth week (For courses shorter than 12 weeks, it is 60 percent of the term.) provided the student follows the official withdrawal procedure. After the eighth week (or 60 percent of the term), a student will be granted a “W” only by means of a petition if he or she has a verifiable reason (illness, severe financial problems, etc.). In the absence of a petition, some symbol other than a “W” must be placed on the student’s record (A through F in letter graded courses or P or NP in Pass-No Pass courses).

While a “W” will not be used in calculating GPA, “W’s” will be used as a factor in probation and dismissal procedures. (See section on “Progress Probation.”)

* A student who drops or is dropped from a course during the first three weeks of the quarter (or prior to 25 percent of the term) will be considered the same as never attending. No notation is placed on the academic record.

P-NP Courses

De Anza College uses the P-NP grade for many courses, as authorized by the Board of Trustees and Title 5.

1. Some courses are designated in the catalog as P-NP courses. A letter grade is not available to the

student in such a course. Among this group of courses are those with a “single satisfactory standard of performance for which unit credit is assigned.” (See Section 51302 of Title 5.)

2. For all other courses, the student may select the “P-NP” option instead of a letter grade (A, B, C, etc.), so long as s/he opts no later than the fourth (4th) week of the term (for courses shorter than 12 weeks, it is 1/3 of the term). Once a student has selected the P-NP option, the resulting grade shall be final.

Restrictions have been placed on the use of “P” grades: a) no more than thirty (30) units of credit with a “P” grade can be applied toward an Associate in Arts degree, and b) no “P” grade may be applied toward a student’s major requirements unless the course is only offered on a P-NP basis. (This restriction does not apply to Computer Applications and Office Systems majors.)

Units earned on a “P-NP” basis shall not be used to calculate grade point averages. However, units attempted for which “NP” is recorded shall be considered in probation and dismissal procedures. (See section on “Progress Probation.”)

Course Repetition

Course repetition is regulated by state guidelines (55042, 58161, 55024, 55045). Course Repetition.

Students may repeat any course in which they have earned an F, D or NP twice, in accordance with California community college regulations (55042). The second grade will supersede the first in calculating the student’s GPA, but the initial course and grade will remain on the permanent record. If a student repeats a class for the third time, the GPA will include the third grade and not the first two grades earned. All three attempts at completing the course will appear on the official transcript.

No student may repeat a course for which they have earned any grade P/C or above, unless they petition with documented proof that they must repeat the course due to an

extended lapse in time or to upgrade skills as part of recertification.

Students who are requesting repetition for a course prerequisite that they have failed twice may repeat the course one additional time. Students who do not successfully complete the course a third time, may be advised to audit lower level courses for which they have previously received a passing grade in order to update skills; choose a different elective to fulfill graduation requirements; or receive permission to complete the course at another institution.

Graduation Application

An application for graduation must be completed and submitted to the Admissions and Records Office prior to receiving a degree or certificate. Students should meet with a counselor the quarter preceding the one in which they plan to graduate to review their coursework and complete the graduation petition. This will allow time to make any necessary schedule changes in their last quarter.

Degrees are awarded at the end of all terms.

Degree Progress Report (Audit)

Students who are interested in seeing how many courses they need to graduate, or to see which courses they have taken meet a specific degree requirement, may request a “Degree Progress” report (audit) from the Admissions and Records Office. This report indicates which applicable courses meet specific requirements for a particular program or GE pattern as well as those requirements still pending completion.

These reports are available for most degree, GE pattern and certificate programs. Effective Spring 2011, a new self-service degree audit should be available via myportal.fhda.edu.

Graduation Honors

Students who have achieved a De Anza College cumulative grade point average between 3.30 and 4.00 will, upon graduation, be awarded associate degree honors as follows:

4.00	Highest Honors	Summa Cum Laude
3.50-3.99	High Honors	Magna Cum Laude
3.30-3.49	Honors	Cum Laude

Guidelines for Course Offerings

To carry out its mission in the Foothill-De Anza Community College District, each college shall ensure students in college-approved, two-year degree A.A./A.S. programs that they will be able to obtain the degree in two years providing they adhere to the prescribed pattern and sequence of courses and are ready to begin college-level work upon entry. Courses that meet major requirements shall be listed in curriculum sheets distributed by each college; and each college, obligated under the policy, shall meet to ensure those courses are offered at one or both of the two colleges with appropriate frequency.

Minimum class size guidelines apply to all lecture, lecture-lab and laboratory classes. A minimum class size of 20 is generally required. Special circumstances, however, may necessitate the continuation of a class below the 20-student minimum. The key factor in making a decision to continue will be based upon program needs: e.g., second or third quarter or second-year sequential courses, courses required for an identified major or career subject area, combined courses meeting at the same hour with the same instructor, and one-of-a-kind offerings needed for graduation or transfer. Exceptions to minimum class size guidelines may also be based on the following:

- a. limited classroom or laboratory facilities,
- b. statutory and state regulations mandating class size, Independent Study, Special Projects and Cooperative Education.

Other circumstances that warrant exception may be made by the Office of Instruction.

Class size of all sections is monitored by the Office of Instruction throughout the registration process. In consultation with the appropriate division dean, low-enrolled classes will be identified and an appraisal made of the enrollment pattern. When warranted, sections may be cancelled early in the registration process to foster improved enrollment in remaining sections.

Matriculation

Matriculation is a process and a partnership between De Anza College and the student designed to help students achieve their academic goals. The main goals of matriculation are to support student access and success through the following components:

1. Admissions
2. Assessment
3. Orientation
4. Counseling and Advisement
5. Follow-up

1. Admissions

New and returning students' first step in enrolling at De Anza is to submit an application for admission. Most students submit the application online via the Web site at www.deanza.edu. Paper applications for admission may be mailed to the Admissions and Records Office or submitted in person in the Student and Community Services Building, though most students find the Web site application to be a great way to avoid waiting in line unnecessarily.

2. Assessment

Placement testing assures students receive a fair and accurate assessment of current skill levels, and provides placement in applicable courses. If you plan to take English, English as Second Language (ESL), math, Chemistry 1A, Biology 6A or Biology 40A at De Anza, you must take the assessment tests or provide college transcript proof of prerequisite courses. Assessment uses multiple measures to place each student in the proper class. It is important to complete your assessment testing before meeting with a counselor. Some testing results may take up to three weeks. Visit the Placement/Assessment Web site for information on dates, times and locations of tests.

Location: Student and Community Services Building

Telephone: 408.864.8717

Web site: www.deanza.edu/admissions/placement

3. Orientation

De Anza offers both online and traditional instruction methods of providing orientation to new students. Students who are not exempt* from matriculation are sent

information to register for Counseling 100, Orientation to College, a 0.5 unit course that covers important college policies and procedures, specific information for certificate, degree and transfer goals, and useful resources to be successful in achieving those goals. The student will also develop an educational plan in the Counseling 100, Orientation to College class. Please visit the Web site for more information.

** Students who already have a college degree or are only taking classes for personal enrichment are exempted from taking Counseling 100.*

Web site: www.deanza.edu/counseling/newstudents.html

4. Counseling and Advisement

Counseling and advising services assist students in establishing their educational goals and identify support services to achieve those goals. The Counseling and Advising Center, located in the Student and Community Services Building, provides a comprehensive service for students who seek assistance in dealing with a variety of concerns. Academic advisers assist with developing academic plans. Counselors assist with academic advising, educational, personal and career concerns. Please see the Web site for more information.

Web site: www.deanza.edu/counseling

5. Follow-Up

Follow-up includes supporting students' progress toward their educational goals and providing early intervention if they encounter difficulties, usually through follow-up counseling and advising sessions and more comprehensive referrals to additional student support services such as tutoring, mentoring and support programs, etc.

Frequently Asked Questions

What are my rights as a newly matriculated student?

You have the right to the following matriculation services: admissions, assessment and placement testing, orientation, counseling and advising, and follow-up student support services. Students are further entitled to:

- participate in the development of an educational plan;
- equal opportunity to engage in the educational process regardless of gender, marital status, sexual orientation, disability, race, color, religion or national origin;

- challenge any prerequisite or placement test result, using established procedures available through the Assessment Center in the Student and Community Services Building; and
- review the matriculation regulations of the California Community Colleges and file a complaint when the college has engaged in any practice prohibited by these regulations.

What are my responsibilities as a matriculated student?

You have the responsibility to express a broad educational intent at entrance, complete assigned coursework, adhere to all college rules, regulations and policies and participate in the development of an educational plan.

Do I have to participate in the matriculation program?

Students who declare a goal of certificate, degree, transfer or undecided and do not already hold at least an associate degree are required to matriculate. However, a student can submit a request to waive matriculation requirements to the dean of Counseling and Matriculation for review. De Anza strongly encourages students to participate in matriculation services as research demonstrates that new students who take advantage of assessment, orientation and counseling services are more successful in achieving their educational goals than those students who do not.

Prerequisites

Prerequisites, corequisites and advisories are intended to guide students into courses in which they will have the greatest chance for academic success.

- **Prerequisite** means a condition of enrollment that a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program.
- **Corequisite** means a condition of enrollment consisting of a course that a student is required to simultaneously take in order to enroll in a course or educational program.

- **Advisory or recommended preparation** means a condition of enrollment that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program.

Challenging Prerequisites

You may challenge prerequisites and corequisites if you can demonstrate that:

- you have the knowledge or ability to succeed in the course without the prerequisite or corequisite
- the prerequisite or corequisite has been established in an arbitrary manner
- the prerequisite is discriminatory or is applied in a discriminatory manner
- the prerequisite course is not reasonably available

To challenge a prerequisite, contact the Assessment Office located in the Counseling Center in the Student and Community Services Building.

Probation Standards

1. Academic Probation

A student who has attempted a total of 6 or more quarter units as shown by the official academic record shall be placed on academic probation if the student has earned a grade point average below 2.0 in all units.

Removal from probation: Removed from academic probation when accumulated GPA is 2.0 or higher.

Standards for dismissal (disqualification): A student who is on academic probation shall be subject to dismissal if the student earned a cumulative GPA of less than 2.0 in all units attempted in each of three consecutive quarters. (Quarters are considered consecutive on the basis of the student's enrollment: i.e., a fall quarter followed by a spring quarter shall be considered consecutive if the student was not enrolled in the winter quarter of that academic year.)

Students on VA educational benefits (veterans, reservists and dependents) must maintain

satisfactory progress; this is a VA requirement. If a student on VA benefits falls below 2.0 GPA in two consecutive quarters of attendance, this is deemed as unsatisfactory progress and is reported to VA. To reinstate your benefits, you must complete one quarter with a 2.0 or higher GPA.

2. Progress Probation

A student who has enrolled in a total of at least 18-quarter units as shown by the official academic record shall be placed on progress probation when the percentage of all units in which the student has enrolled and for which entries of "W," "I" and "NP" are recorded reaches or exceeds fifty percent (50%). For the purposes of progress probation, units attempted prior to the 1981 summer session will not be counted.

Removal from probation: A student is removed from progress probation when the percentage of units for which entries of "W," "I" and "NP" are recorded drops below fifty percent (50%).

Standards for dismissal (disqualification): A student who has been placed on progress probation shall be subject to dismissal if the percentage of units in which the student has been enrolled with entries of "W," "I" and "NP" in at least three consecutive quarters reaches or exceeds fifty percent (50%).

3. Status while on probation (either academic or progress or both)

- a. A probationary student may be required to participate in retention interventions designed by the Counseling and Advising Center.
 - b. A student is not eligible for "honors" or graduation while on either academic or progress probation.
4. Any student admitted with advanced standing who has a GPA below 2.0 or who has been academically disqualified from De Anza or any other college, is admitted on probationary status.

Standards for Readmission

1. If a student has been dismissed following either progress or academic probation, s/he will be required to take at least one quarter leave from De Anza College. S/he is then eligible for readmission after that time has elapsed. Students may petition the dean of Counseling for exemption from disqualification if extenuating circumstances exist.
2. A student returning from disqualification will be allowed to re-enroll at De Anza after meeting with a counselor.
3. A student admitted after dismissal will be placed on probation and may be dismissed at the end of one quarter if:
 - a. His/her GPA for that quarter falls below 2.0 or
 - b. S/he receives entries of "W," "I" or "NP" in fifty percent (50%) or more of the units in which s/he is enrolled that quarter.

Military Service School Credit

Service Schools

Students may receive college credit for military service schools by submitting a copy of their DD214 or DD295 or Army/American Council on Education Registry transcript. A request for evaluation must be made by seeing a counselor or contacting the Evaluations Office. **Basic Military Training:** Nine units of credit are awarded for basic military training including three units of physical education, four units of Health 21, and two units of military science elective.

Mutual Respect*

De Anza College shall take all steps necessary to provide a positive educational and employment environment that encourages equal educational opportunities. The

college will actively seek to educate staff and students on the deleterious effects of expressions of hatred or contempt based on race, color, national or ethnic origin, age, gender, religion, sexual orientation, marital status, or physical or psychological disability; and will promote equality and mutual respect and understanding among all groups and individuals.

Nonsmoking Areas

The goal of the Foothill-De Anza Community College District is to provide a safe learning and working environment for students and employees. Smoking is prohibited in all indoor and outdoor campus locations, with the exception of designated parking lots.

Smoking is prohibited in district vehicles.

"No Smoking" signs shall be conspicuously posted at building entrances and in employee lounges, rest rooms, locker rooms, dressing areas, cafeterias, lunchrooms, and stadium and sports facilities. In addition, designated parking lot areas for smoking areas will be clearly marked.

This policy relies on the consideration and cooperation of smokers and non-smokers. It is the responsibility of all members of the district to observe and follow the guidelines.

This policy shall be communicated to all employees annually and published in the colleges' schedule of classes, handbooks, Web sites and other appropriate locations.

Off-Campus Activities/Trips

Certain portions of our educational programs require off-campus attendance for scheduled field trips and excursions. Unless the course syllabus or the instructor state otherwise, each student is responsible for arranging his/her own transportation. Pursuant to 5 CCR section 55220 (h), each student making a field trip or excursion shall be deemed to have waived all claims against

the district for injury, accident, illness or death occurring during, or by reason of, the field trip or excursion."

Open Classes

It is the policy of the district that every course—unless specifically exempted by statute—will be open to any student who has been admitted to the college and meets the class prerequisites. This policy applies to courses which must report the class average daily attendance for state aid purposes. It was established under Chapter II, Division 2, Part VI, Title 5 of the California Code of Regulations.

Requesting and Receiving Accommodation(s) Under ADA*

The Board of Trustees upholds that, for persons with disabilities, improving the access to educational and employment opportunities must be a priority. The Board of Trustees directs the administration to take the necessary actions to implement the requirements of the Americans with Disabilities Act and Section 504 of the Rehabilitation Act.

The Foothill-De Anza Community College District shall not discriminate against a qualified individual with a disability because of the disability with regard to employment or with regard to the provision of district programs, services and activities.

A person who is otherwise qualified may request accommodation related to his or her disability, provided that the accommodation does not impose an undue hardship on the district. The procedures for requesting accommodation are maintained in the President's Office, the Office of the ADA Coordinator and in the District Human Resources Office. The ADA coordinator for De Anza College is Michele LeBleu-Burns, dean of Student Development and EOPS, 408.864.8218.

* Foothill-De Anza's Administrative Procedures: Investigation and Resolution of Complaints Regarding Harassment and Discrimination, Procedures to Resolve Student Complaints of Sexual Harassment and Discrimination, and the district's Unlawful Discrimination Complaint forms are available in the President's Office, the Office of the Vice President for Student Services, the District Human Resources Office, and the district Chancellor's Office. Detailed information regarding the sexual harassment, mutual respect, and ADA policies are located at the following campus locations: Counseling Division, Health Services Office, Office of College Life, Learning Center Reference Desk, division offices, and Staff and Organizational Development.

Revision of Regulations

Any regulations adopted by the faculty and administration of the college shall have the same force as a printed regulation in the catalog and shall supersede, upon public announcement, by posting on official bulletin boards and by announcement, any ruling on the same subject that may appear in the catalog or other official bulletins of the college.

Sexual Assault Including Rape

De Anza College will not tolerate any form of sexual assault, including rape, on college property or at any college-sponsored event. The college realizes that these situations may or may not be deemed criminal offenses and so may have to be handled both internally by college administrative action and externally by the appropriate law enforcement agency. Internally, disciplinary sanctions may include suspension or expulsion for students or suspension or termination for employees. The standards of conduct for students and the applicable sanctions for violating the standards are contained in the Student Rights and Responsibilities.

Decisions regarding discipline of employees will be made in accordance with applicable legal and contractual provisions and procedures.

When a victim of rape or any other sexual assault chooses to go to either the Counseling Division and/or Health Services, the strictest of confidentiality will be maintained. If the victim decides to report the incident to the appropriate law enforcement agency, the college will make every effort to ensure that it will be handled in the most private and confidential manner as possible.

Sexual Harassment*

Members of a college community—students, faculty, staff and visitors—must be able to study and work in an atmosphere of mutual respect and trust. It is the policy of the Foothill-De Anza Community College District to provide an educational,

employment and business environment free of unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct or communications constituting sexual harassment as defined and otherwise prohibited by Federal and State law. Sexual harassment may include, but is not limited to:

1. Conduct of a sexual nature that is explicitly or implicitly made a term or condition of an individual's employment or education.
2. A decision based on the submission to or rejection of a sexual advance.
3. Verbal or physical conduct of a sexual nature that interferes with an individual's performance or creates an intimidating work or educational environment.

Immediate action shall be taken against individuals determined to be in violation of this policy. Any individual who believes that he or she has been a victim of sexual harassment may file a complaint within one year of the date on which the complainant knew or should have known of the facts of the sexual harassment incident.

Complaints of sexual harassment filed by an employee of the district against another employee or student, or a student against an employee of the district shall be referred and handled pursuant to the district's Administrative Procedures: Investigation and Resolution of Complaints Regarding Harassment and Discrimination. Such complaints should be directed to Michele LeBleu-Burns, dean of Student Development and EOPS at 408.864.8828 or the vice president of Student Services at 408.864.8330.

Complaints of sexual harassment filed by a student against another student, or student against the criteria of a program, shall be referred and handled pursuant to the district's Procedures to Resolve Student Complaints of Sexual Harassment and Discrimination. Such complaints should be directed to Michele LeBleu-Burns, dean of Student Development and EOPS at 408.864.8828 or the vice president of Student Services at 408.864.8330.

Student Grievance Procedures

De Anza College strives to treat all students fairly, but as in any complex organization, misunderstandings and even conflicts can arise from time to time. As a student, you have certain rights under the published rules and regulations of the district and the college, the state laws regarding education, and the federal affirmative action laws. This procedure should not be used to address unlawful harassment or discrimination. If you feel you may have been subjected to unlawful harassment or discrimination, please refer to the sexual harassment and/or antidiscrimination sections of the catalog.

If you feel that your student rights have been violated by the college—in one instance, or over a period of time in a series of events—you have the right to try to resolve the problem. In most cases, problem situations turn out better if they're attended to quickly and simply. That's why De Anza's trustees and student government set up the Student Grievance Procedures, which require a student to do just that. The complete Student Grievance Procedures follow this step-by-step summary. It's a good idea to read them carefully if you decide to file a grievance.

Procedures:

Step 1. You must first try to solve the problem informally. You and the other person(s) involved need to meet and try to solve the problem. You can ask for help from any De Anza community member. Give it your best effort.

Step 2. If you still aren't satisfied, you can file a formal grievance. Upon the recommendation of the appropriate dean or administrator you can file a grievance form. You will need to provide the specific rule or law (Students Rights and Responsibilities) that you feel was violated, as well as all the details of the events(s). Provide copies of any pertinent documents. Don't delay—to file a grievance you must be a current student or have been one within 30 days before filing, and you must have learned of the

* Foothill-De Anza's Administrative Procedures: Investigation and Resolution of Complaints Regarding Harassment and Discrimination, Procedures to Resolve Student Complaints of Sexual Harassment and Discrimination, and the district's Unlawful Discrimination Complaint forms are available in the President's Office, the Office of the Vice President for Student Services, the District Human Resources Office, and the district Chancellor's Office. Detailed information regarding the sexual harassment, mutual respect, and ADA policies are located at the following campus locations: Counseling Division, Health Services Office, Office of College Life, Learning Center Reference Desk, division offices, and Staff and Organizational Development.

particular event or the latest of a series of events no more than 30 days before you file. [Regardless of when you learned of the event(s), if the alleged violation(s) happened more than a year in the past your grievance won't be valid.]

Step 3. Pick up a student grievance form from the Office of Student Development and EOPS or the De Anza Associated Student Body (DASB) Office, the Office of College Life (formerly the Student Activities Office) or the office of the vice president of Student Services. You can receive assistance with completing the form from any faculty or staff member; or you can ask for help from the DASB.

Step 4. File your completed student grievance form with the Office of Student Development and EOPS. Please do not return the completed grievance form to any other office. You will receive acknowledgement of receipt of your grievance usually within two weeks from the time it is received. Your grievance will be forwarded to the dean of Student Development and EOPS.

Step 5. The Grievance Review Board will review your grievance and will decide if you met the standards for filing, and whether your grievance meets the basic standards of legitimacy for consideration. The office of Student Development and EOPS will contact you if your grievance warrants a hearing. You will be contacted and a hearing will be scheduled.

Step 6. The exact nature of the hearing differs from case to case and is under the direction of the grievance officer. You—and the other person(s)—can have with you, or be represented by, any other person who is not an attorney. You can purchase (at cost) a copy of the official record of the hearing.

Step 7. The Grievance Review Board will try to reach a decision within 14 days from the time of the hearing. They will decide, on the outcome of your grievance, what relief (if any) you should be granted. They will forward their recommendation to the dean of Student Development and EOPS. You will be notified by the dean of the board's recommendation.

Step 8. The college president or his/her designee has the final decision regarding the outcome. If it is determined that violation

of rights is a result of a district rule or some other reason beyond the college's control, the president or his/her designee will recommend the appropriate action at a higher level, the chancellor and trustees.

Student Right-to-Know Summary Report

In compliance with the federal government, De Anza College has provided a summary of the students entering De Anza College for the first time in the 2005 fall quarter:

Total student cohort*	2,829
Students completing	
A.A./A.S./ certificate:	1,294 or 46%
Students who	
transferred out:	492 or 17%
Total completers/	
transfers:	1,786 or 63%

* *The cohort is made up of students entering college for the first time in the fall term who in the fall term declared a goal of transfer, associate degree or certificate and completed one or more college-level credit courses in the fall term and attended full time.*

Completers are students who within a degree-year period completed the requirements for an associate degree, certificate, or transferred out of the college, or were prepared to transfer (which is defined as successfully completing 84 or more transferable units and achieving a grade point average equal to or greater than 2.0 out of a possible 4.0).

The term *transferred out* is defined as the student who transferred to a University of California campus, or California State University campus, or another California community college campus.

Student Rights and Responsibilities Concerning Health

Individuals who elect to become De Anza students have the right to a healthy, safe and drug-free environment. These students have personal responsibilities with regard to their own health and safety and the health and safety of the college community.

To promote an optimum personal and physical environment in which to facilitate individual development and learning, a De Anza student will:

- A. Not attend college if s/he has a contagious condition (i.e., TB, measles, hepatitis, etc.)

- B. Not attend college if s/he is under the influence of alcohol or illicit drugs.
- C. Have a physical exam on file if s/he is an intercollegiate athlete, or is in an allied health program.
- D. Notify the Admissions and Records Office if s/he will be absent for a week or more due to an illness.
- E. Observe sound personal hygiene habits.
- F. Have current TB results on file as required by the Allied Health Programs, the Child Development Center, the International Student Program and the Nursing Program.
- G. Obtain a physician's note and cooperate openly and honestly with college officials about medical problems that may threaten the health and/or welfare of self or others.
- H. Adhere to safety regulations and use safety equipment and protective devices as required.
- I. Adhere to all college infectious disease policies.

Textbook Affordability and Accessibility Options

De Anza College recognizes that textbook affordability directly impacts student access and successful learning. Learn about the numerous consumer options for students, including a wide selection of new and used textbooks, textbook rentals, e-books and textbook buyback at <http://books.deanza.edu>. Additional resources include textbooks that have been placed on reserve in the college library www.deanza.edu/library/ as well as a student-run book exchange www.deanza.edu/dasb/Textbook%20Exchange.html

De Anza College makes every reasonable effort to determine that the textbook information listed in the college's online schedule is accurate. However, textbook editions and ISBNs are subject to change without notice by either the instructor or publisher. The De Anza College Bookstore is not responsible for subsequent textbook changes if the student purchases them from another source. Review the online schedule at www.deanza.edu/schedule/

Traffic and Parking Regulations

All parking requires a paid fee or permit. Visitors, students and staff are required to observe all campus parking and traffic regulations enforced year-round by the Foothill-De Anza Community College District Police; failure to comply may subject violators to municipal citations.

Staff parking areas are identified by signs and yellow striping for stalls; student parking areas are identified by white striping for stalls, and disabled parking areas are marked with signs and blue striped stalls.

College quarterly and annual decals are available from the cashier. One-day permits can be purchased from machines in the parking lots. Red machines take quarters only; yellow machines take nickels, dimes, quarters and dollar bills. Daily parking permits cost \$2.

Maximum speed limit is 25 miles per hour on perimeter roads and 10 miles per hour within parking lots. No person shall operate a bicycle, moped or skateboard upon any pedestrian walkway, ramp or patio located within the college campus.

Transcripts

Students may request transcripts online or in person with identification. Transcripts will subsequently be mailed or electronically sent, where applicable, to designated institutions or individuals. Students may request the first two transcripts free of charge; additional transcripts will be subject to published fees and express mailing costs where applicable.

Transfer Credit From Other Colleges

Students completing courses at other colleges accredited by one of the six approved regional accrediting associations may request to use this credit to fulfill

De Anza requirements. Official transcripts should be sent directly to the De Anza Admissions and Records Office from the other college or students may deliver sealed, unopened transcripts. Upon review, eligible transfer credit will be applied to the student's De Anza record. Enrolled students with 12 units of De Anza credit will be given priority when evaluating transcripts.

Non-Accredited Regional Colleges

Students may receive up to 18-quarter units of elective credit for coursework completed at a college accredited by other associations recognized by the Council of Postsecondary Accreditation (COPA). This credit is not transferable to meet bachelor's degree requirements. Official transcripts should be mailed or submitted to the Admissions and Records Office and appropriate credit, where applicable, will be added to the De Anza student record.

Units

A unit is the standard measurement of college and university work. One unit equals one hour of classroom work in most classes, predominantly those in lecture or lecture-discussion formats. Students should expect two hours of outside preparation for each one hour spent in class. Laboratory classes have three hours of work per week per unit. (Specialized performance classes such as athletics, drama and music require more than three hours per week per unit.) Quarter units are equal to two-thirds ($\frac{2}{3}$) of a semester unit. Conversely, a semester unit is equal to one-and-a-half ($1\frac{1}{2}$) quarter units.

Unit Load Limitations

Twelve units is the minimum number of units required for classification as a full-time student. A normal class load will be between 12-17 units. New students may not exceed a maximum of 21.5 units during their first quarter of enrollment at De Anza, without the approval of the dean of the Counseling Division.

Continuing students may enroll in excess of 21.5 units (including physical education and labs) if they have met the following conditions:

1. Completed a minimum of 12 units in the preceding quarter at De Anza;
2. Have not withdrawn from more than one class in the preceding quarter;
3. Completed the preceding quarter with at least a 3.0 GPA.

Students meeting the above criteria, wishing to enroll in excess of 21.5 units, must petition through the Counseling and Advising Center during the first week of the quarter. Petitions will not be considered before the first day of classes. Students who do not meet the criteria may petition the dean of Counseling for an exception to this policy.

Summer Sessions

During summer sessions, students may enroll in a maximum of 15 units including physical education classes and labs associated with courses.

- To exceed the 15-unit limit, students must meet with a counselor after classes have started to complete the special petition form. At that meeting, they must present authorization codes for every class over the maximum units they wish to add.
- The form and codes must be processed by the deadline to add for the session.
- Students must have completed a minimum of 12 units in the preceding quarter, not withdraw from more than one class, and have at least a 3.0 GPA to be eligible for a unit overload.

Unsatisfactory Work

When a student persistently neglects class assignments or has excessive absences, the instructor may drop the student from the class or assign a non-passing grade. Students may also be assigned a non-passing grade for violating De Anza's published Academic Integrity policies.

De Anza College is
a smoke-free campus



CAREER and DEGREE PROGRAMS

De Anza College offers a wide variety of two-year transfer and career programs leading to an Associate in Arts or Associate in Science degree. In addition, Certificates of Achievement and Certificates of Achievement-Advanced are awarded upon the satisfactory completion of certain programs that require less than two years of full-time study. Programs may be studied on a full- or part-time basis in the day, evening, or on weekends.

Associate Degree Programs

(Associate in Art and Associate in Science)

Transfer degree programs or transfer degree majors prepare students to major in a particular university subject matter or provide baccalaureate-level general education. Transfer programs range widely in scope, from narrow specialty majors (e.g. Biological Sciences) to broad general education programs (e.g. Liberal Arts).

Career program degrees are designed for students who wish to prepare for immediate employment and/or upgrade their employment skills. Career degrees include requirements for a major, which are specialized occupational courses and general education courses that broaden a student's understanding of self and the surrounding world. Some units/credits in career programs may transfer to four-year colleges or universities and may fulfill lower-division requirements.

Associate Degree Requirements

(Associate in Arts and Associate in Science)

1. To receive an associate degree, a minimum of 90 quarter units of college credit in prescribed courses is required.
 - Prescribed courses must be from a curriculum in effect and published in the catalog during the student's first quarter of enrollment or any subsequent quarter as long as continuous

enrollment is maintained. A continuously enrolled student is defined as one who attended De Anza or Foothill College, CSU, UC, or any California community college at least one semester or two quarters each academic year. (For the purpose of continuous enrollment, an academic year is defined as fall through summer.) A single "W" grade in a term qualifies the student as having attended that term.

2. A minimum of 24 quarter units must be earned at De Anza College. A maximum of 22 quarter units from another college or university may be applied toward the major.
3. Demonstrate proficiency in reading, written expression and mathematics.
4. General education requirements for the A.A./A.S. as outlined in this catalog must be completed. A minimum of 31-42 quarter units are required from AREAS A-E. General education requirements can be selected from one catalog year; and major requirements can be selected from a different catalog year, as long as the rule of "continuous enrollment" is followed.
5. Each major course must be completed with a minimum "C" grade. A minimum 2.0 grade point average for all De Anza College coursework and for all transfer and De Anza College coursework combined is required.
6. Permission to continue in medical assisting and nursing is subject to the approval of the program faculty. A mandatory review of a student's academic standing takes place if grades fall below

"C" in courses or in performance situations.

Returning to De Anza College for a Subsequent Associate Degree

Students returning for additional degrees who do not qualify for continuous enrollment must meet the current A.A./A.S. degree GE pattern requirements and the current major requirements in effect during the academic year in which they return.

General Education Reciprocity

De Anza has entered into a mutual General Education Reciprocity agreement with other community colleges to accept the GE courses of these colleges "as completed." In addition to De Anza, participating institutions include Chabot, Evergreen Valley, Foothill, Gavilan, Las Positas, Mission, Ohlone, San Jose City and West Valley colleges. Other community colleges do not participate in the agreement at this time.

The reciprocity agreement means that any of the participating colleges will accept "as completed" the GE coursework and graduation proficiencies of those students who obtain an official certificate of completion of associate degree GE requirements from one of the participating colleges. When using reciprocity to satisfy GE, the other degree requirements (e.g. prerequisites, major and electives units, GPA, etc.) as specified the college issuing the degree must still be met.

To obtain an official certificate of completion of De Anza's GE pattern, students should:

- a. Provide official transcripts from other colleges to the Admissions and Records Office.
- b. Meet with a counselor and provide verification that De Anza's GE requirements have been completed to the evaluators in the Admissions and Records Office.

Official reciprocity certification will be completed by the counselor, verified by the evaluations officer or articulation officer, and mailed to the community college of transfer. Students will be given a copy of the certification. De Anza will honor the certification presented from another participating college only if it is transmitted in the same manner as an official transcript from that college.

Certificate Programs

Certificate of Achievement and Certificate of Achievement-Advanced programs are designed for students interested in programs of instruction with a high degree of specialization. Programs vary in length and generally require less than two years of full-time study to complete. If the student prefers, they may also be completed on a part-time basis. Students are encouraged to check with the departments and counselors for help with planning their courses. Successful completion of these certificates requiring a minimum of 18-quarter units is notated on official college transcripts. There is no limit on the number of certificates a student can earn.

Many certificates have been designed on the ladder concept, so that courses taken to meet the lower-unit Certificate of Achievement requirements meet part of the higher-unit Certificate of Achievement-Advanced requirements; and those Certificate of Achievement-Advanced courses can be applied to the corresponding associate degree requirements.

Certificate Requirements

Completion of the prescribed number of courses in the major for each certificate is required.

Certificate of Achievement

Required units range from 18 to 26. Each major course must be completed with a minimum "C" grade. Up to six (6) units may be applied from another college or university.

Certificate of Achievement-Advanced

Required units typically range from a minimum of 27 to 45.

- Each major course must be completed with a minimum "C" grade.
- A maximum of 18-quarter units may be applied from another college or university.
- Mathematics proficiency is required in addition to major courses. This may be met by completing MATH 112 (101) or higher level mathematics; or by qualifying for MATH 104 (Applied Technologies majors only) or 114 (105) on the De Anza mathematics placement test.
- English proficiency is required in addition to major courses: eligibility for EWRT 1A or ESL 5. This proficiency may be demonstrated by: qualifying for EWRT 1A on the De Anza College English placement test or qualifying for ESL 5 on the English as a Second Language placement test; completing EWRT 211 and READ 211, or

LART 211 (or earlier EWRT/READ/LART courses that were prerequisites to EWRT 1A); or completing ESL 272 and 273, plus ESL 226 (or earlier ESL courses that were prerequisites to ESL 5).

Skills Certificate Programs

Some academic departments also offer Skills Certificates that require fewer than 18-quarter units. These certificates are issued by the department and are not notated on official college transcripts. Required courses must be completed at De Anza College with a passing grade ("C" or better/"P").

Career Technical Education (CTE) Program Advisory Committees

In accordance with guidelines established by the California Community Colleges System Office, each De Anza Career Technical Education (CTE) program is represented by an advisory committee. These advisory committees are comprised of business and industry leaders, as well as college faculty and administrators. They meet at least once annually to discuss course offerings and determine how to keep programs current with trends in the regional and global economies. The advisory committees provide input in the following areas:

- advising on industry trends and employment needs
- reviewing current course content
- evaluating program graduates' performance
- determining facilities and equipment needs
- recommending new courses and content
- initiating new certificate and degree programs

The recommendations of the CTE program advisory committees are implemented on a continuous basis. In addition to the program advisory committees, other college bodies make recommendations and decisions regarding implementation of new CTE certificate and degree programs. These bodies include the De Anza College Curriculum Committee and the Foothill and De Anza Colleges' Joint Academic Senate.



Advanced Technology Center

**Certificates and Degrees
Awarded by the College**

	Certificate of Achievement	Certificate of Achievement-Advanced	AA/AS Degree
Accounting	◆		
Bookkeeping	◆		
Practice Emphasis		◆	◆
Taxation Emphasis		◆	◆
Tax Practitioner		◆	
Administration of Justice			
Corrections/Probation			◆
Law Enforcement			◆
Private Security		◆	◆
Administrative Assist/Office Technology	◆*	◆	◆
Art			
Art History	◆*	◆	◆
Ceramics	◆*	◆	◆
Painting	◆*	◆	◆
Sculpture	◆*	◆	◆
Automotive Technician (Evening)			
Machining and Engine Repair	◆*	◆	◆
Engine Performance	◆*	◆	◆
Chassis	◆*	◆	◆
Powertrain	◆*	◆	◆
Smog Technician	◆*		
Advanced Automotive Technology	◆*		
Automotive Technology (Day)			
Auto Machining and Engine Repair		◆	◆
Auto Engine Performance		◆	◆
Auto Chassis & Powertrain		◆	◆
Biological Sciences			◆
Business Administration	◆*		◆
Entrepreneurship	◆		
Business Software Applications	◆	◆	◆
Child Development	◆	◆	◆
Early Childhood Mental Health	◆		
Early Intervention/Special Ed Assistant		◆	
Computer Aided Design (CAD)		◆	◆
Pro/ENGINEER	◆*		
Computer Information Systems			
Computer Systems Security			
Computer Crime Investigation	◆		
Enterprise Security Professional	◆*	◆	◆
Database Design for Developers	◆		
Network Administration	◆	◆	◆
Programming			
Business Programming		◆	◆
Network Programming	◆*	◆	◆
Programming in C/C++	◆*		
Programming in JAVA	◆*		
Programming in PERL	◆*		
Systems Programming		◆	◆
UNIX/LINUX Operating System	◆*		
Visual Basic Programming	◆*		
Web Development	◆*		
Tech Support/Systems Support Services			
Help Desk	◆		
System Support Services		◆	◆
English*			◆
Environmental Studies			
Biodiversity Specialist	◆*	◆	◆
Energy Management & Climate Policy	◆	◆	◆
Environmental Compliance	◆	◆	◆
Environmental Stewardship		◆	◆
Wildlife Corridor Technician	◆		

* Asterisked programs have been submitted for approval at the state level. Visit the departments for the current status.

- **Certificates of Achievement** = 18-26 quarter units
- **Certificates of Achievement-Advanced** = 27+ quarter units
- **AA/AS Degrees** = minimum of 90 total quarter units including **General Education**

**Certificates and Degrees
Awarded by the College**

	Certificate of Achievement	Certificate of Achievement-Advanced	AA/AS Degree
Film Production			◆
Film/TV Production:			
Animation Emphasis		◆	◆
Animation History and Criticism	◆*		
Animation Production	◆*		
Computer Animation		◆	
Film/TV Production: Screenwriting*			◆
Film/TV Production: TV Emphasis	◆*	◆	◆
Global Studies	◆*	◆	◆
Graphic Design and Interactive Design			
Graphic Design	◆	◆	◆
Interactive Design		◆	◆
Health Technologies			
Medical Assisting		◆	◆
Business Office Clerk	◆		
Insurance and Coding	◆		
Lab Assisting	◆		
Medical File Clerk	◆		
Medical Reception	◆		
Medical Records Clerk	◆		
Medical Transcription	◆		
Phlebotomy Technician I	◆		
Medical Secretary		◆	
Intercultural Studies	◆*	◆	◆
Journalism			◆
Leadership and Social Change	◆*		
Liberal Arts			
Arts and Letters			◆
Business and Computer Info. Systems			◆
Science, Math, and Engineering			◆
Social and Behavioral Sciences			◆
Management	◆		◆
Manufacturing and CNC			
CNC Machinist		◆	◆
CNC Research and Development Machinist		◆	◆
Manufacturing Systems Technician	◆*		
Product Model Making		◆	◆
Marketing Management	◆	◆	◆
Massage Therapy	◆	◆	◆
Medical Laboratory			
Technology (MLT)		◆	◆
Museum Studies	◆*		
Music			◆
Nursing			
LVN Transition to RN			◆
Registered Nurse (RN)			◆
Paralegal Studies		◆	◆
Photographic Arts			◆
Professional Photography	◆*		◆
Project Management Practitioner	◆		
Real Estate		◆	◆
Speech Communication	◆*		◆
Technical Writing	◆*		◆

Multiple Certificates and Degrees from De Anza

There is no limit on the number of certificates and degrees a student may be awarded. (Note: of the four (4) Liberal Arts degree options, a student may choose only one.)

Skills Certificates Awarded by Individual Departments
(under 18 units - not notated on college transcripts)**

Administrative Assistant/Office Technology • Business Software Applications • Computer Aided Design: AutoDesk • Computer Aided Design: SolidWorks • Home/Small Business Computer Security • Internet Literacy • CNC Machine Operator • CAD/CAM-Mastercam

** Note: Contact department directly to apply for a Skills Certificate.

6/2/2010

TRANSFER PROGRAMS

De Anza College students who decide to transfer to a four-year college or university to earn a bachelor's degree can complete their freshman and sophomore-level coursework at De Anza. Each baccalaureate institution has a pattern of lower-division general education or breadth requirements and specific major requirements that should be fulfilled before transferring. De Anza offers a significant number of lower-division courses. In addition, students may make up any high school grade or subject deficiencies that are required for entrance to universities. Please see a counselor or academic adviser for rules and restrictions.

Students should acquaint themselves with the current catalog of their transfer college for information about admissions qualifications and application procedures since these vary and are subject to change. Check college Web sites for catalog and general transfer information. It is recommended that students also work closely with counselors/academic advisers to develop educational plans outlining appropriate courses that fulfill lower-division requirements (general education and major) for the colleges of their choice. Students planning to transfer may, with careful planning, also complete the graduation requirements for De Anza's Associate in Arts or Associate in Science degree. Students should meet with a counselor/academic adviser to apply for an A.A./A.S. degree before transfer.

Course Numbering System

Most De Anza courses are baccalaureate level and transferable to four-year institutions. Generally, courses at De Anza are numbered using the following guidelines:

1-199: De Anza A.A./A.S. degree applicable. (Check course listing for exceptions—some courses may be noted as non-degree applicable.)

1-99: Transferable to campuses of the California State University

1-49: Transferable to campuses of the University of California. (See information on UC transfer limitations for approved De Anza courses on page 90.)

All courses numbered **200 and above** are non-degree applicable.

There are exceptions to this numbering system. Consult the course listings in this catalog and schedule of classes to determine which courses 1-199 are non-degree applicable and which courses 50-99 have University of California transfer status pending.

Courses considered "transferable" may not necessarily meet specific requirements of the four-year institutions. Students should consult with a counselor/academic adviser to develop an effective educational plan. While students are strongly advised to work with counselors/academic advisers, the final responsibility for the selection of proper courses rests with the student.

Articulation Agreements

De Anza has established articulation agreements with several baccalaureate colleges and universities. Courses approved for credit at such universities are listed in these articulation agreements. Department course-to-course, general education and major preparation agreements may be available through counselors/academic advisers in the Counseling and Advising Center, the Transfer Center, and through the ASSIST Web site www.ASSIST.org (for UC and CSU campuses only).

The following is a sample list representing fields of study that De Anza has articulated with various four-year colleges and universities:

Administration of Justice
Advertising
Aeronautics/Aviation
Aerospace Engineering
Afro-American Studies
Agricultural Sciences
American Studies
Anthropology
Art
Behavioral Sciences
Biochemistry
Biological Sciences
Bioresource Sciences
Botany

Business Administration
Chemical Engineering
Chemistry
Chicano Studies
Child Development
Civil Engineering
Communication Studies
Computer Science
Conservation and Resource Studies
Construction Management
Criminal Justice
Dental Hygiene
Dentistry
Design: Graphic/Industrial/Interior
Economics/Business Economics
Education
Electrical Engineering and Computer Science
Engineering
English
Environmental Design
Environmental Studies/Ecology
Ethnic Studies
Forestry
French
Geography
Geology/Earth Science
German
Government
Health and Community Services
History
Home Economics
Hospitality Management
Humanities
Industrial Arts
Industrial Technology
International Studies/Business
Italian
Japanese
Journalism: Radio/Television/Film
Latin American Studies
Legal Studies
Liberal Studies
Linguistics
Mathematics/Statistics
Meteorology
Microbiology
Music
Natural Resources
Nursing
Nutrition
Occupational Therapy
Ophthalmology
Pharmacology

Philosophy
 Physical Education
 Physical Science
 Physical Therapy
 Physics
 Physiology and Cell Biology
 Political Science
 Political Economy of Industrial Societies
 Pre-Professional Schools: Law, Medicine,
 Optometry, Veterinary Science
 Psychobiology
 Psychology
 Public Relations
 Quality Assurance
 Recreation
 Religious Studies
 Rhetoric
 Russian
 Social Science
 Social Welfare
 Social Work
 Sociology
 Spanish
 Speech Communication
 Speech Pathology/Audiology
 Teaching
 Theatre Arts
 Women's Studies
 Zoology

ASSIST (Articulation Web Site)

ASSIST is the official statewide repository for articulation information. ASSIST is the primary Web site where students can find specific De Anza courses that fulfill general education and/or major preparation requirements at the UCs and CSUs. Listings of course equivalencies assist students in selecting appropriate courses to prepare for transfer. Selection criteria for impacted and selective programs/majors, transfer credit limitations and important links to UC and CSU Web sites are also available at www.ASSIST.org.

De Anza College's Transfer Planning Web Site

The De Anza College Transfer Planning Web site at www.deanza.edu/transfer/ offers students a wide variety of information including:

- Information on UC/CSU transfer admission requirements, general education patterns and majors

- Transfer Admission Agreement/ Guarantee Program (TAA/TAG)
- Links to UC, CSU and Independent College/University Web sites
- Important dates, deadlines and updates
- Upcoming transfer events
- AP and IB exam credit for CSUGE and IGETC

The University of California

The University of California campuses at Berkeley, Davis, Irvine, Los Angeles, Merced, Riverside, San Diego, Santa Barbara and Santa Cruz all share the same minimum admission requirements; however, each campus is unique. The academic programs offered, the size of the student body and the setting are just a few of the factors that contribute to the individual character of each campus. Entrance requirements vary, as well. Although some campuses are able to admit all eligible transfer applicants, others can accommodate only a limited number of transfer students. Academic preparation and grade point average are used by the competitive campuses and programs in the selection process. Criteria vary from year to year and from campus to campus according to the number and qualifications of applicants to each campus and program. For more information about campuses, consult the university general catalogs available online or in the Transfer Center. Complete information on the UC may be found at www.universityofcalifornia.edu/admissions/.

The university will award graduation credit for up to 105 lower-division quarter units of transferable coursework from a community college. Courses in excess of 105 quarter units will receive subject credit and may be used to satisfy university subject requirements. There is no limit, however, on the number of units used to determine a student's grade point average (GPA), so all UC-transferable units will apply.

Minimum Admission Requirements For Transfer Applicants Who Are California Residents*

The following information was taken from the UC publication "2010-2011 Answers for Transfers." De Anza is not responsible for any changes the UC may make to this information. For complete information and updates, visit www.universityofcalifornia.edu/admissions.

The University of California considers you a transfer applicant if you enrolled in a regular session at a college or university after high school, not including summer session. (You can't disregard your college record and apply as a freshman.)

There are three ways to meet the university's minimum admission requirements for transfer students. The path you use depends on the degree to which you satisfied UC's minimum eligibility requirements for freshmen at the time you graduated from high school.

1. If you were eligible for admission to the university when you graduated from high school—meaning you satisfied the subject, scholarship and examination requirements, or were identified by the university during your senior year in high school as eligible in the local context—you are eligible to transfer if you have a 2.0 GPA in your transferable college coursework.
2. If you met the scholarship requirements in high school but did not satisfy the 15-course subject requirement, you must take transferable college courses in the missing subjects, earn a C or better in each required course, and maintain a 2.0 GPA in all transferable coursework to be eligible for transfer.
3. If you were not eligible for admission to the university when you graduated from high school because you did not meet the scholarship requirement, you must:

* Residency Status: The requirements for bona fide California residents also apply to dependents of University of California graduates and employees. The manner in which legal residence is defined for fee purposes is different. If you have questions about your residency status, contact the Admission or Registrar's Office at the campus you wish to attend.

- a. Complete 90 quarter units/ 60 semester units of transferable college credit with at least a 2.4 GPA (2.8 for nonresidents). No more than 21 quarter/14 semester units may be taken Pass/ Not Pass, **and**
- b. Complete the following seven transferable college courses, earning a grade of C or better in each course:
 - Two courses in English composition; **and**
 - One course in mathematical concepts and quantitative reasoning; **and**
 - Four courses chosen from at least two of these subject areas: arts and humanities, social and behavioral sciences, and physical and biological sciences.

Each course must be worth at least 4-5 quarter/3 semester units.

Visit www.ASSIST.org for a list of UC-transferable courses and those that specifically meet the seven-course pattern described in section 3b above.

Nonresidents

The minimum admission requirements for nonresidents are very similar to those for residents. If you are not a California resident, please consult with the Admissions Office at one of the university campuses for details. In all cases, however, nonresidents must have a grade point average of 2.8 or higher in all transferable college coursework.

As a reminder, many campuses use criteria that exceed these minimum requirements to select students for admission. You are advised to confer frequently with a counselor/ academic adviser, consult university catalogs, research university Web sites and contact the Admissions Offices at the appropriate campus(es).

Special UC Admissions Programs

UC Davis Transfer

Opportunity Program

The UC Davis Transfer Opportunity Program (TOP) is an initiative to strengthen the successful transfer of students to UC Davis. A TOP adviser, available on a regular basis in the Transfer Center, provides transfer advising services regarding UC Davis academic programs, student life and admission selection policies.

California State University

The following information is an abstract from the CSUMentor Web site (*posted May 2010*). De Anza is not responsible for any changes CSU may make to this information. For complete information and updates, visit www.csumentor.edu/planning/transfer/.

For students interested in transfer to one of the 23 campuses of the California State University (CSU), admission eligibility is based on transferable units completed. You are considered a transfer student if you complete college units after the summer following graduation from high school.

Upper-Division Transfer Admission Requirements:

Students who have completed 60 or more transferable semester units (90 quarter units) are considered upper-division transfer students. You are eligible for admission if you:

- Have an overall college grade point average of 2.0 or better (2.4 for California nonresidents) in all transferable college units attempted.
- Are in good standing at the last college or university attended; i.e., you are eligible to re-enroll.
- Prior to transfer, complete at least 30 semester units (45 quarter units) of general education coursework with a grade of C or better. The 30 (45) units must include all of the general education requirements in English composition, oral communication, critical thinking and at least one course of 3 semester units (4 quarter units) in college-level mathematics.

Lower-Division Transfer

Admission Requirements:

Many CSU campuses do not accept lower-division transfers. Be sure to check with the campus if you are considering transfer as a lower-division student.

Students who have completed fewer than 60 transferable semester units (90 quarter units) are considered lower-division transfer students. You are eligible for admissions consideration as a lower-division transfer if you:

- Have a college grade point average of 2.0 or better in all transferable college units completed.
- Are in good standing at the last college or university attended; i.e., you are eligible to re-enroll.
- Meet the admission requirements for a first-time freshman or have successfully completed necessary courses to make up the deficiencies you had in high school if you did not complete the 15-unit pattern of college preparatory subjects.
- Meet the eligibility index required of a freshman.



Science Center

- Some campuses require completion of English composition and general education mathematics, with grades of C or better, prior to transfer.

Almost all CSU campuses have impacted majors, and several campuses are impacted in all majors. As a result of major impaction, and because of the increasing competitiveness of the overall admissions process, completion of the minimum eligibility criteria may not be sufficient for admission. Additional criteria may be used in making admissions decisions.

Independent/Private and Out-of-State Colleges and Universities

Private and out-of-state colleges and universities have differing admissions requirements. For information on California institutions, visit www.californiacolleges.edu. This site provides online resources to help you choose institutions that best match your needs and interests. For out-of-state colleges and universities, research catalogs, each institution's Web site, and other online resources.

Transfer

Admission Agreements

Transfer Admission Agreements (TAA), also referred to as a Transfer Admission Guarantee (TAG), are commitments that selected colleges and universities make with De Anza students who meet specific GPA and course requirements. A TAA serves as a contract between a student and the transfer college or university. Students who complete a TAA and meet the contractual requirements are guaranteed admission. Transfer Admission Agreements are generally written one year prior to transfer.

Students preparing for a TAA begin by working with a De Anza counselor/academic adviser early in their academic career. This early relationship establishes a foundation for transfer and ensures early development of an education plan. With an education plan in place, students have the knowledge that each course taken has been agreed upon and that any loss of credit will be minimized.

The following institutions participate in a TAA program with De Anza College. These agreements are subject to periodic changes without notice:

California State University

- CSU East Bay
- CSU Monterey Bay

University of California

- UC Davis
- UC Irvine
- UC Merced
- UC Riverside
- UC San Diego
- UC Santa Barbara
- UC Santa Cruz

Independent Colleges

- Cogswell Polytechnical College
- Kettering University
- The National Hispanic University
- Santa Clara University
- University of the Pacific

Visit the Counseling and Advising Center or the Transfer Center for TAA information. Deadlines, policies and the process to initiate a TAA are available at www.deanza.edu/transfer/.

Effective Transfer Planning Strategies

Be Competitive –

Be “Transfer Ready”

Do not wait until the last quarter to take math and English.

Complete transferable math and English requirements as early as possible. Develop your long-range education plan and do not forget to include any prerequisites that are needed prior to enrolling in transferable level math and English courses.

Complete major preparation requirements prior to transfer.

Due to the increasingly competitive nature of the transfer admissions process, many majors require completion of lower-division major preparation course requirements. This is especially true for high unit majors (e.g., science and engineering). Go to www.ASSIST.org for course requirements for CSU and UC campuses.

Complete general education (GE) requirements.

To be as competitive as possible complete lower-division general education course work prior to transfer. If completing CSUGE or IGETC (see pages 49 and 50), do not forget to request certification prior to transfer. For high unit majors it is generally advised that students focus on completing major preparation and admission requirements.

Determine your transfer goals early.

Deciding on the college(s) and the major(s) you are interested in will enable you to focus your planning efforts on specific goals. It is recommended that you plan with optional colleges and majors in mind, but start researching possibilities early in your college career.

Research your college(s) of choice.

Successful transfer requires planning early and understanding what is needed to transfer, for example:

- the competitive GPA for your major and college
- minimum admission requirements for your major and college
- application process and deadlines

Information regarding transfer is subject to change. It is important to check Web sites and other resources periodically to ensure you have the most up-to-date information.

Keep your course information.

Students should retain their course syllabi and selective course work (e.g. writing samples, final exams, etc.) because a transfer institution may request such documentation.

Develop relationships with your instructors, counselors and advisers.

Applications for admission and scholarships may require letters of recommendation.

Complete an education plan with a counselor/adviser.

Keep on top of deadlines.

Check and update your e-mail regularly.

More colleges are using e-mail as primary means of communication. Make sure colleges have your current e-mail address and check for messages often.

General Education Requirements 2010-2011

Effective Fall 2010 through Summer 2011

De Anza College offers two associate degrees, the Associate in Arts (A.A.) and the Associate in Science (A.S.). In order to obtain either degree, you must complete between 31-42 quarter units of General Education (GE) and additional unit requirements for your major. The number of units required for a major will vary from program to program. To qualify for the associate degree, you must complete a total of 90 quarter units which is comprised of De Anza's General Education, major and, if necessary, elective courses of your choice. The associate degree is not required for transfer. However, with careful planning, you may qualify for an associate degree while meeting requirements for transfer admission. Review the following pages for listings of courses that satisfy De Anza's GE, Intersegmental General Education Transfer Curriculum (IGETC) and California State University (CSU) GE/Breadth requirements.

The General Education subject areas for De Anza College's associate degree requirements are listed under the left column below. If you are planning to transfer to the University of California and/or California State University, you may want to complete the requirements listed under the IGETC or CSUGE Breadth. See pages 49 and 50 for approved course lists. De Anza College requirements for CSUGE certification differ from the requirements identified by the CSU and from the information published on www.ASSIST.org. In order to qualify for certification of CSUGE at De Anza College, students must complete the CSUGE requirements as stated in this catalog or at www.deanza.edu/transfer/.

Transfer students with high unit majors (e.g. sciences or engineering) should focus on completing requirements for the major and minimum admissions requirements rather than completing IGETC or CSUGE Breadth requirements.

Completion of IGETC and CSUGE Breadth requirements is not required for transfer. Students who plan to transfer may instead choose to complete the specific General Education-breadth requirements of the transfer institution they select.

Please see the following Web sites for more information: www.ASSIST.org or www.deanza.edu/transfer/

General Education/Breadth Requirements Summary

De Anza College A.A./A.S. Degree General Education Requirements (for students who want an A.A./A.S. Degree)	California State University (CSU) GE Breadth—All Campuses General Education/Breadth Requirements	UC/CSU—All Campuses** Intersegmental General Education Transfer Curriculum (IGETC)
Quarter Units	Quarter Units	Quarter Units
Area A: Language and Rationality 9-14 1. English Composition 2. Oral Communication 3. Critical Thinking <i>(if completing the AS degree this sub-area is satisfied)</i> Area B: Natural Sciences 4-6 One course from the Physical or Biological Sciences Area C: Arts and Humanities 8-9 Two courses: one from Arts and one from Humanities (One ICS course in Area C or D) Area D: Social & Behavioral Sciences 8 Two courses: one from Behavioral Sciences and one from History & Society. (One ICS course in Area C or D) Area E: Physical Education, Development and Performance 2-5 2 units minimum. At least one unit must be completed from PE or PEA Activities. Graduation requirements also include: • proficiency in reading and written expression which is met by Area A1 above. Course must be completed with a grade of "C" or better. • proficiency in mathematics which may be met by completing MATH 104 (Applied Technologies majors only), or MATH 114 (or 105) or equivalent or higher with a grade of "C" or better (or) achieving a score of 3 or higher on one AP mathematics exam (or) satisfactory score on the De Anza College Level Math Placement Test. Total Units: 31-42	A. English Language Communication and Critical Thinking 12-15 1. Oral Communication 2. Written Communication 3. Critical Thinking B. Scientific Inquiry and Quantitative Reasoning 12-15 1. Physical Science 2. Life Science 3. Laboratory Activity 4. Mathematics/Quantitative Reasoning C. Arts and Humanities 12-15 EWRT 1B or ESL 6* required 1. Arts 2. Humanities D. Social Sciences Min. 16 (HIST 17A or 17B or 17C) and POLI 1 required Select two courses from the following: D1 Anthropology and Archaeology D2 Economics D3 Ethnic Studies D4 Gender Studies D5 Geography D6 History D7 Interdisciplinary Social or Behavioral Science D8 Political Science, Government, and Legal Institutions D9 Psychology D0 Sociology and Criminology E. Lifelong Learning and Self-Development 4-5 Minimum Units: 58 You must request certification by completing the official certification form available at Admissions and Records and in the Counseling and Advising Center. * ESL 6 restricted to students whose native language is not English.	1. English Communication 10-14 a. English Composition b. Critical Thinking – English Composition c. Oral Communication (CSU only) 2. Mathematical Concepts & Quantitative Reasoning 4-5 3. Arts & Humanities 12-15 At least three courses including one from Arts and one from Humanities. 4. Social & Behavioral Sciences 12-15 At least three courses from at least two disciplines. (Courses used to meet the American History and Institutions requirement may not be used to fulfill IGETC.) 5. Physical & Biological Sciences 9-12 At least two courses, one Physical Science and one Biological Science; one must include a laboratory. 6. Language other than English (UC only) Total Units: 47-61 You must request certification by completing the official certification form available at Admissions and Records and in the Counseling and Advising Center.
		** See a counselor/academic adviser about UC professional schools and colleges that do not accept IGETC.

General Requirements for the Associate Degree (A.A./A.S.)

1. Completion of all General Education (GE) requirements (31-42 quarter units) for the A.A./A.S. degree. GE units must be completed with a minimum 2.0 GPA ("C" average).
2. Completion of all major requirements. Major courses must be completed with a letter grade unless a particular course is offered on a pass/no-pass basis only. Each major course must be completed with a minimum "C" grade.
Major courses can also be used to satisfy GE requirements (except for Liberal Arts degrees).
Note: A maximum of 22 quarter units from other academic institutions may be applied toward the major.
3. Completion of a minimum of 90 degree-applicable quarter units. All De Anza courses must be completed with a minimum 2.0 GPA ("C" average). All De Anza course combined with courses transferred from other academic institutions must be completed with a minimum 2.0 GPA ("C" average).
Note: A minimum of 24 quarter units must be earned at De Anza College.
4. Demonstrate proficiency in reading, written expression and mathematics.
Reading and Written Expression:
 - Completion of EWRT 1A or ESL 5 or equivalent with a grade of "C" or better; OR
 - Achieve a score of 3 or higher on either AP Language and Composition or AP Composition and Literature exams
 Mathematics:
 - Completion of MATH 104 (Applied Technologies majors only), or MATH 114 (or MATH 105) or equivalent or higher with a grade of "C" or better; OR
 - Achieve a score of 3 or higher on one AP mathematics exam; OR
 - Satisfactory score on the De Anza College Level Math Placement Test.

General Education Requirements

Effective Fall 2010 through Summer 2011

AREA A: LANGUAGE AND RATIONALITY

1. **English Composition: Demonstrate proficiency in reading and written expression by achieving a score of 3 or higher on AP Language and Composition or AP Literature and Composition or by completing one of the following courses with a grade of "C" or better:**

9-14 units

EWRT 1A Composition and Reading (5)

ESL 5 Advanced Composition and Reading (5)

2. **Oral Communication:** Select one course

SPCH 1 Public Speaking (4)

SPCH 10 Fundamentals of Oral Communication (4)

3. **Critical Thinking: For the A.A. degree, select one of the following courses:**

(If completing the A.S. degree, this sub-area is satisfied)

EWRT 2 Critical Reading, Writing and Thinking (5)
 MATH 10 Elementary Statistics and Probability (5)
 MATH 44 Introduction to Contemporary Mathematics (5)
 PHIL 3 Critical Thinking and Writing (5)
 PHIL 4 Critical Thinking (4)
 PHIL 7 Deductive Logic (4)

EDUC/MATH 46 Mathematics for Elementary Education (5)
 SPCH 8 Argumentation and Critical Inquiry in Oral Communication (4)
 SPCH 9 Argumentation: Analysis of Oral and Written Communication (4)
 SPCH 15 Critical Decision-Making in Groups (4)

AREA B: NATURAL SCIENCES (Select one course in the *Biological* or *Physical Sciences*.)

4-6 units

Note: Completion of the nursing major clears the Natural Science requirement. Underlined courses have a laboratory component.

BIOLOGICAL SCIENCES

ANTH 1 Physical Anthropology (4)
 ANTH 1 & 1L Physical Anthropology with Lab (4) (1)
BIOL 5 Biology of Birds (5)
BIOL 6A Form and Function in the Biological World (6)
 BIOL 8 Biology of Women (4)

BIOL 10 Introductory Biology (5)
BIOL 11 Human Biology (5)
BIOL 13 Marine Biology (5)
BIOL 15 California Ecology (5)
 ESCI 1 Environmental Science (4)
 ESCI 1 & 1L Environmental Science with Lab (4) (1)

ESCI 19 Environmental Biology (5)
ESCI 20 Introduction to Biodiversity (5)
ESCI 30 Conservation Biology (5)
@ES 2 Humans, the Environment and Sustainability (4)

PHYSICAL SCIENCES

ASTR 4 Solar System Astronomy (5)
 ASTR 10 Stellar Astronomy (5)
CHEM 10 Introductory Chemistry (5)
 GEO 1 Physical Geography (4)

GEOL 10 Introductory Geology (5)
 GEOL 20 General Oceanography (4)
 MET 10 Weather Processes (4)
 MET 10 & 10L Weather Processes with Lab (4) (1)

PHYS 2A General Introductory Physics (5)
PHYS 4A Physics for Scientists and Engineers (Mechanics) (6)
 PHYS 10 Concepts of Physics (5)

@ Courses listed in two areas can be counted in only one.

AREA C: ARTS AND HUMANITIES (Select one course from the **Arts** category and one from the **Humanities** category. One **Intercultural Studies (ICS)** course must be taken in AREA C or D.)

8-9 units

1. ARTS

ARTS 1A	Introduction to the Visual Arts (4)	@ARTS 3TC	Women and Art (4) (same as WMST 3C)	ICS 45	Survey of American Indian Arts (4)
ARTS 1B	Architecture Past and Present (4)	ARTS 3TD	American Art: Public and Private (4)	INTL 10	History of Art: Arts of Asia (4) (same as ARTS 2G)
ARTS 2A	History of Art: Europe from Prehistory Through Early Christianity (4)	ARTS 3TE	Today's Working Artist (4)	INTL 21	History of Art: Native Arts of Mesoamerica and South America (4) (same as ARTS 2H)
ARTS 2B	History of Art: Europe During the Middle Ages and the Renaissance (4)	DANC 38A	Appreciation of Dance (4)	INTL 22	History of Art: Indigenous Arts of the World (4) (same as ARTS 2J)
ARTS 2C	History of Art: Europe from the Baroque Period Through Impressionism (4)	ELIT 1	Introduction to Film (4) (same as F/TV 1)	INTL 23	History of Art: Visual Arts of Islam (4) (same as ARTS 2K)
ARTS 2D	History of Art: Europe and the United States from Post-Impressionism to the Present (4)	*ELIT 6	Cinema and the African American (4) (same as F/TV 48 and ICS 14)	INTL 24	History of Art: Visual Arts of Africa (4) (same as ARTS 2L)
*ARTS 2F	History of Art: Multicultural Arts in the U.S. (4) (same as ICS 5)	@ES 3	Imagery of the Environment (4)	MUSI 1A	Introduction to Music: Music in Western Cultures (4)
ARTS 2G	History of Art: Arts of Asia (4) (same as INTL 10)	F/TV 1	Introduction to Film (4) (same as ELIT 1)	MUSI 1B	Introduction to Music: Jazz Styles (4)
ARTS 2H	History of Art: Native Arts of Mesoamerica and South America (4) (same as INTL 21)	F/TV 2A, AW	History of Cinema (1895-1950) (4) (4.5)	MUSI 1C	Introduction to Music: World Music in America (4)
ARTS 2J	History of Art: Indigenous Arts of the World (4) (same as INTL 22)	F/TV 2B, BW	History of Cinema (1950-Present) (4) (4.5)	MUSI 1D	Introduction to Music: Rock - from Roots to Rap (4)
ARTS 2K	History of Art: Visual Arts of Islam (4) (same as INTL 23)	*F/TV 48	Cinema and the African American (4) (same as ICS 14 and ELIT 6)	PHTG 7	Exploring Visual Expression (4)
ARTS 2L	History of Art: Visual Arts of Africa (4) (same as INTL 24)	F/TV 75G	History of Animation (4)	PHTG 20	History of Early Photo from Its Beginning to 1925
		@F/TV 95A, AW	Contemporary World Cinema (4) (4.5)	PHTG 21	Contemporary Trends in Photography (4)
		@HUMI 1	Creative Minds (4)	THEA 1	Appreciation of Theatre (4)
		HUMI 15	Discussion on the Arts (4)	@WMST 3C	Women and Art (4) (same as ARTS 3TC)
		ICS 5	History of Art (Multicultural Arts in the U.S.) (4) (same as ARTS 2F)		
		ICS 14	Cinema and the African American (4) (same as F/TV 48 and ELIT 6)		
		ICS 33	The Chicano and the Arts (4)		

2. HUMANITIES

EDUC 58	Children's Literature (4) (same as ELIT 58)	ESL 6	Critical Reading and Research for Writing (5)	HUMI 14A	Indian Philosophy (4) (same as PHIL 14A)
ELIT 10	Introduction to Fiction (4)	EWRT 1B	Reading, Writing and Research (5)	HUMI 14B	Chinese Philosophy (4) (same as PHIL 14B)
ELIT 11	Introduction to Poetry (4)	EWRT 1C	Literature and Composition (5)	HUMI 14C	Japanese Philosophy (4) (same as PHIL 14C)
ELIT 12	Introduction to Dramatic Literature (4)	EWRT 30	Introduction to Creative Writing (4)	HUMI 16	Arts, Ideas and Values (4)
ELIT 17	Introduction to Shakespeare (4)	@ES 2	Humans, the Environment, and Sustainability (4)	HUMI 18	History as Mystery: Western Perspectives in Global Contexts (4)
ELIT 19	Introduction to the Bible as Literature (4)	@F/TV 95A, AW	Contemporary World Cinema (4) (4.5)	HUMI 20	The Greek Achievement (4)
ELIT 20	Major Authors (4)	Foreign Language		ICS 11	The Roots of the African American Experience (4)
ELIT 21	Women in Literature (4) (same as WMST 21)	CANT 1, 2, 3 (5 ea)		ICS 12	An Introduction to African American Literature (4)
ELIT 22	Mythology and Folklore (4)	FREN 1, 2, 3, 4, 5, 6 (5 ea); 10 (15)		ICS 24	Asian American Literature (4) (same as ELIT 24)
ELIT 23	Literature and Masculinities (4) (same as WMST 23)	GERM 1, 2, 3, 4, 5, 6 (5 ea)		ICS 35	Chicano Literature (4)
*ELIT 24	Asian American Literature (4) (same as ICS 24)	HEBR 1, 2, 3 (5 ea)		ICS 44	American Indian Religions (4)
ELIT 25	Introduction to Linguistics (4) (same as LING 1)	HNDI 1, 2, 3 (5 ea)		ICS 46	Literature of America's Native Peoples (4)
ELIT 26	Popular Literature (4)	ITAL 1, 2, 3, 4 (5 ea)		INTL 11	Vietnamese Literature (4)
ELIT 39	Contemporary Literature (4)	JAPN 1, 2, 3, 4, 5, 6 (5 ea)		INTL 13	Introduction to Korean Pop Culture (4) (same as HUMI 13)
ELIT 44	International Literature (Fiction) (4)	KORE 1, 2, 3, 4, 5, 6 (5 ea)		INTL 30	Introduction to Islamic Studies (4)
ELIT 46A	Major British Writers (Medieval and Renaissance) (4)	MAND 1, 2, 3, 4, 5, 6 (5 ea)		INTL 34	Russian Culture: An Introduction to a Nation and People (4)
ELIT 46B	Major British Writers (Neo-Classical and Romantic) (4)	PERS 1, 2, 3, 4, 5, 6 (5 ea)		LING 1	Introduction to Linguistics (4) (same as ELIT 25)
ELIT 46C	Major British Writers (Victorian and Modern) (4)	RUSS 1, 2, 3 (5 ea)		PHIL 1	Knowledge and Reality (4)
ELIT 48A	Major American Writers (Colonial and Romantic, 1620-1865) (4)	SPAN 1, 2, 3, 4, 5, 6 (5 ea)		PHIL 2	Social and Political Philosophy (4)
ELIT 48B	Major American Writers (The Advent of Realism, 1865-1914) (4)	URDU 1, 2, 3, 4, 5, 6 (5 ea)		PHIL 8	Ethics (4)
ELIT 48C	Major American Writers (The Modern Age, 1914-the Present) (4)	VIET 1, 2, 3, 4, 5, 6 (5 ea)		PHIL 9	Philosophy of Science (4)
ELIT 58	Children's Literature (4) (same as EDUC 58)	HIST 4A,4B,4C,4D	History of West. Civ. (4)	PHIL 14A	Indian Philosophy (4) (same as HUMI 14A)
		@HUMI 1	Creative Minds (4)	PHIL 14B	Chinese Philosophy (4) (same as HUMI 14B)
		HUMI 2	But is it Art? Questions and Criticism (4)	PHIL 14C	Japanese Philosophy (4) (same as HUMI 14C)
		HUMI 5	Storytelling in American Culture (4)		
		HUMI 6	Popular Culture (4)		
		HUMI 7	The Arts and the Human Spirit (4)		
		HUMI 9	Introduction to Comparative Religion (4)		
		HUMI 10	Global Religious Perspectives: Judaism, Christianity, and Islam (4)		
		HUMI 13	Introduction to Korean Pop Culture (4) (same as INTL 13)		

* In addition to ICS courses listed, courses with asterisks meet ICS requirements.

@ Courses listed in two areas can be counted in only one.

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AREA C: ARTS AND HUMANITIES: 2. HUMANITIES (continued from previous page)**8-9 units**

PHIL 20A	History of Western Philosophy: Ancient Greece (4)	PHIL 49	Women and Philosophy (4) (same as WMST 49)	WMST 21	Women in Literature (4) (same as ELIT 21)
PHIL 20B	History of Western Philosophy: 1400-1800 (4)	SIGN 1	Elementary American Sign Language (First Quarter) (5)	WMST 23	Literature and Masculinities (4) (same as ELIT 23)
PHIL 20C	History of Western Philosophy: 1800-the Present (4)	SIGN 2	Elementary American Sign Language (Second Quarter) (5)	WMST 49	Women and Philosophy (4) (same as PHIL 49)
PHIL 24	Philosophy of Religion (4)	SIGN 3	Elementary American Sign Language (Third Quarter) (5)		
PHIL 30	Introduction to Existentialism (4)				

AREA D: Social and Behavioral Sciences (Select one course from the *Behavioral Sciences* category and one from *History and Society*. One *Intercultural Studies (ICS)* course must be taken in AREA C or D.)**8 units****1. BEHAVIORAL SCIENCES**

ANTH 2	Cultural Anthropology (4)	ICS 31	Chicano Culture (4)	SOC 1	Introduction to Sociology (4)
ANTH 3	Introduction to Archaeology (4)	ICS 41	American Indians in Contemporary Society (4)	SOC 5	Sociology of Globalization and Social Change (4) (same as INTL 8)
ANTH 4	World Prehistory (4)	INTL 8	Sociology of Globalization and Social Change (4) (same as SOC 5)	SOC 8	Sociology of Religion (4)
ANTH 6	Linguistic Anthropology (4)	PSYC 1	General Psychology (4)	SOC 20	Social Problems (4)
BUS 80	Effective Organizational Communication (4) (same as SPCH 70)	PSYC 6	Introduction to Humanistic Psychology (4)	SOC 28	Sociology of Women and Men (4) (same as WMST 28)
CD 10G	Child Development (The Early Years) (4) (same as PSYC 10G)	PSYC 8	Introduction to Social Psychology (4)	SOC 35	Marriage, Family and Intimate Relationships (4)
CD 10H	Child Development (Middle Child. and Adol.) (4) (same as PSYC 10H)	PSYC 9	Psychology of Human Relationships and Normal Adjustment (4)	*SPCH 7	Intercultural Communication (4) (same as ICS 7)
CD 12	Child, Family, and Community Interrelationships (4)	PSYC 10G	Child Development (The Early Years) (4) (same as CD 10G)	SPCH 16	Grassroots Democracy: Leadership and Power (4) (same as SOSC 17)
ES 1	Introduction to Environmental Studies (4)	PSCY 10H	Child Development (Middle Childhood and Adolescence) (4) (same as CD 10H)	SPCH 70	Effective Organizational Communication (4) (same as BUS 80)
@HUMA 10	Human Sexuality (4)	PSYC 12	Psychology of Gender (4) (same as WMST 12)	WMST 1	Introduction to Women's Studies (4)
ICS 4	Race, Ethnicity and Social Stratification (4)	PSCY 14	Introduction to Developmental Psychology (4)	*WMST 8	Women of Color in the USA (4) (same as ICS 8)
ICS 7	Intercultural Communication (4) (same as SPCH 7)	SOSC 17	Grassroots Democracy: Leadership and Power (4) (same as WMST 17)	WMST 12	Psychology of Gender (4) (same as PSYC 12)
ICS 8	Women of Color in the USA (4) (same as WMST 8)			WMST 17	Sociology of Women and Men (4) (same as SOC 28)

2. HISTORY AND SOCIETY

*ADMJ 29	Cultural Pluralism and American Law and Justice (4) (same as ICS 29)	HIST 11	Technology and the Environment in America (4)	ICS 3C	World History (4) (same as HIST 3C)
@ARTS 3TC	Women and Art (4) (same as WMST 3C)	*HIST 16A	History of Africa to 1800 (4) (same as ICS 16A)	ICS 9	Studying Race and Ethnicity: Theories and Methods (4)
BUS 21	Business and Society (5)	*HIST 16B	History of Africa From 1800 to the Present (4) (same as ICS 16B)	ICS 10	An Introduction to African American Studies (4)
CIS 2	Computers and the Internet in Society (4)	HIST 17A	History of the U.S. to Early National Era (4)	ICS 16A	History of Africa to 1800 (4) (same as HIST 16A)
ECON 1	Principles of Macroeconomics	HIST 17B	History of the U.S. From 1800 to 1900 (4)	ICS 16B	History of Africa From 1800 to the Present (4) (same as HIST 16B)
ECON 2	Principles of Microeconomics (4)	HIST 17C	History of the U.S. From 1900 to the Present (4)	ICS 17	Critical Consciousness and Social Action (4) (same as PHIL 17)
@ES 2	Humans, the Environment and Sustainability (4)	*HIST 18A	African American History Before 1865 (4) (same as ICS 18A)	ICS 18A	African American History Before 1865 (4) (same as HIST 18A)
@ES 3	Imagery of the Environment (4)	*HIST 18B	African American History Since 1865 (4) (same as ICS 18B)	ICS 18B	African American History Since 1865 (4) (same as HIST 18B)
F/TV 10	Introduction to Electronic Media (4) (same as HUMI 17)	HIST 19A	History of Asian Civilization (4) (same as INTL 19A)	ICS 20	Asian American Experiences in History (4)
GEO 4	Cultural Geography (4)	HIST 19B	History of Asian Civilization (4) (same as INTL 19B)	ICS 22	Contemporary Issues in the Asian American Communities (4)
GEO 5	A Geography of California (4)	*HIST 28	Social Environmental History (4) (same as ICS 28)	ICS 28	Social Environmental History (4) (same as HIST 28)
GEO 10	World Regional Geography (4)	@HUMA 10	Human Sexuality (4)	ICS 29	Cultural Pluralism and American Law and Justice (4) (same as ADMJ 29)
HIST 2	Introduction to California Studies (4)	HUMA 50	Understanding and Managing Stress (4)	ICS 30	Introduction to Chicano Studies (4)
*HIST 3A	World History (4) (same as ICS 3A)	HUMI 17	Introduction to Electronic Media (4) (same as F/TV 10)	ICS 32	Chicano History(4)
*HIST 3B	World History (4) (same as ICS 3B)	ICS 3A	World History (4) (same as HIST 3A)	ICS 37	Ancient People of Mesoamerica(4)
*HIST 3C	World History (4) (same as ICS 3C)	ICS 3B	World History (4) (same as HIST 3B)	ICS 38A	Colonial Latin American History (4) (same as HIST 7A)
*HIST 7A	Colonial Latin American History (4) (same as ICS 38A)				
*HIST 7B	Modern Latin American History (4) (same as ICS 38B)				
HIST 9	Women in American History (4) (same as WMST 9)				
HIST 10	History of California (4)				

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* In addition to ICS courses listed, courses with asterisks meet ICS requirements.
 @ Courses listed in two areas can be counted in only one.

AREA D: Social and Behavioral Sciences: 2. HISTORY AND SOCIETY (continued from previous page)

ICS 38B	Modern Latin American History (4) (same as HIST 7B)	PHIL 10	Philosophy of Democracy (4)	SOSC 15	Grassroots Democracy: Race, Culture and Liberation (4) (same as POLI 15 and WMST 15)
ICS 42	American Indian Peoples of California (4)	*PHIL 17	Critical Consciousness and Social Action (4) (same as ICS 17)	SOSC 16	Grassroots Democracy: Social Movements Since the 1960s (4) (same as POLI 16 and WMST 16)
ICS 43	U.S. History from an American Indian Perspective (4)	POLI 1	American Government and Politics (4)	@WMST 3C	Women and Art (4) (same as ARTS 3TC)
ICS 55	Civic Leadership for Community Empowerment (4)	POLI 2	Comparative Politics (4)	WMST 9	Women in American History (4) (same as HIST 9)
INTL 5	Global Issues and Perspectives (4)	POLI 3	International Relations (4)	WMST 15	Grassroots Democracy: Race, Culture and Liberation (4) (same as POLI 15 and SOSC 15)
INTL 15	Introduction to the Arab World (4)	POLI 5	Introduction to Political Thought and Theory (4)	WMST 16	Grassroots Democracy: Social Movements Since the 1960s (same as POLI 16 and SOSC 16)
INTL 19A	History of Asian Civilization (4) (same as HIST 19A)	POLI 15	Grassroots Democracy: Race, Culture and Liberation (4) (same as SOSC 15 and WMST 15)		
INTL 19B	History of Asian Civilization (4) (same as HIST 19B)	POLI 16	Grassroots Democracy: Social Movements Since the 1960s (4) (same as SOSC 16 and WMST 16)		
INTL 33	Introduction to Peace and Conflict Studies (4) (same as POLI 33)	POLI 33	Introduction to Peace and Conflict Studies (4) (same as INTL 33)		
JOUR 2	Mass Communication and Its Impact on Society (4)				

* In addition to ICS courses listed, courses with asterisks meet ICS requirements.
@ Courses listed in two areas can be counted in only one.

AREA E: PHYSICAL EDUCATION, DEVELOPMENT AND PERFORMANCE**2-5 units***At least one unit must be completed from PE or PEA Activities.***PHYSICAL EDUCATION (PE) ACTIVITIES**

DANC 22K	Theory and Technique of Ballet I (1) (same as PE 22K)	PE 4, X	Strength Development (.5, 1)	PE 22K	Theory and Technique of Ballet I (1) (same as DANC 22K)
DANC 22L	Theory and Technique of Ballet II (2) (same as PE 22L)	PE 5AX, AY	Spin/Swim Fitness (1, 1.5)	PE 22L	Theory and Technique of Ballet II (2) (same as DANC 22L)
DANC 23A	Theory and Technique of Contemporary (Modern) Dance I (1) (same as PE 23A)	PE 6B, BX	Cross Training (.5, 1)	PE 23A	Theory and Technique of Contemporary (Modern) Dance I (1) (same as DANC 23A)
DANC 23B	Theory and Technique of Contemporary (Modern) Dance II (2) (same as PE 23B)	PE 6D, DX	Body Sculpting (.5, 1)	PE 23B	Theory and Technique of Contemporary (Modern) Dance II (2) (same as DANC 23B)
DANC 23L	Theory and Technique of Hip-Hop I (Popular American Dance) (1) (same as PE 23L)	PE 6F, FX	Deep Water Running (.5, 1)	PE 23L	Theory and Technique of Hip-Hop I (Popular American Dance) (1) (same as DANC 23L)
DANC 23M	Theory and Technique of Hip-Hop II (Popular American Dance II) (1) (same as PE 23M)	PE 6G, GX	Aerobics Swimming (.5, 1)	PE 23M	Theory and Technique of Hip- Hop II (Popular American Dance II) (1) (same as DANC 23M)
DANC 24A	Theory and Technique of Social Dance I (1) (same as PE 24A)	PE 6H, HX	Aerobic Power Walking (.5, 1)	PE 24A	Theory and Technique of Social Dance I (1) (same as DANC 24A)
DANC 24B	Theory and Technique of Social Dance II (1) (same as PE 24B)	PE 6K, KX	Cardio Kick (.5, 1)	PE 24B	Theory and Technique of Social Dance II (1) (same as DANC 24B)
DANC 24C	Theory and Technique of Social Dance III (1) (same as PE 24C)	PE 6Q, QX	Low Impact Aerobic Rhythms (.5, 1)	PE 24C	Theory and Technique of Social Dance III (1) (same as DANC 24C)
DANC 25A	Theory and Technique of Salsa Dance (1) (same as PE 25A)	PE 6R, RX	Hi-Lo Impact Aerobic Rhythms (.5, 1)	PE 25A	Theory and Technique of Salsa Dance (1) (same as DANC 25A)
DANC 37A	Theory and Technique of Jazz Dance I (1) (same as PE 37A)	PE 6S, SX	Step Aerobics (.5, 1)	PE 26A, AX	Novice Swimming (.5, 1)
DANC 37B	Theory and Technique of Jazz Dance II (2) (same as PE 37B)	PE 6U, UX, UY	Fit Camp (.5, 1, 1.5)	PE 26B, BX	Beginning Swimming (.5, 1)
DANC 49A	Topics in Theory and Technique of World Dance (1) (same as PE 49A)	PE 6V, VX	Core Conditioning (.5, 1)	PE 26C, CX	Intermediate Swimming (.5, 1)
PE 1A	Softball (.5)	PE 8, X	Total Fitness (.5, 1)	PE 26D, DX	Advanced Swimming (.5, 1)
PE 1H, HX	Team Sport - Basketball (.5, 1)	PE 9, X, Y	Cardiovascular and Strength Training (.5, 1, 1.5)	PE 28A	Lifeguard Training (4)
PE 2A, AX	Beginning Karate (.5, 1)	PE 10, X, Y	Multi-Sport Training (.5, 1, 1.5)	PE 32B	Women's Badminton Techniques (2)
PE 2B, BX	Intermediate Karate (.5, 1)	PE 11, X	Stretching (.5, 1)	PE 32F	Defensive Baseball Techniques (2)
PE 2K, KX	Aikido (.5, 1)	PE 12, X	Aqua Aerobics (.5, 1)	PE 32G	Offensive Baseball Techniques (2)
PE 2L, LX	Intermediate Aikido (.5, 1)	PE 13A, AX	Beginning Badminton (.5, 1)	PE 32H	Offensive Football Techniques (2)
PE 2P, PX	Pilates Mat Exercise (.5, 1)	PE 13B, BX	Intermediate Badminton (.5, 1)	PE 32I	Defensive Football Techniques (2)
PE 2Q, QX	Tai Chi (.5, 1)	PE 13C, CX	Advanced Badminton (.5, 1)	PE 32J	Water Polo Techniques (2)
PE 2R, RX	Intermediate Tai Chi (.5, 1)	PE 13T, TX	Tournament Badminton (.5, 1)	PE 32K	Basketball Techniques (2)
PE 2S, SX	Cardio Tai Chi (.5, 1)	PE 14A, AX	Beginning Fencing (.5, 1)	PE 32L	Volleyball Techniques (2)
PE 2Y, YX	Yoga (.5, 1)	PE 14B, BX	Intermediate Fencing (.5, 1)	PE 32M	Men's Soccer Techniques (2)
PE 3, X	Indoor Cycling (.5, 1)	PE 15, X	Beginning Bowling (.5, 1)	PE 32N	Track and Field Techniques (2)
PE 3AX, AY	Outdoor Cycling (1, 1.5)	PE 16A, AX	Beginning Golf (.5, 1)		
PE 3G, GX	Self Defense (.5, 1)	PE 16B, BX	Intermediate Golf (.5, 1)		
		PE 19A, AX	Beginning Volleyball (.5, 1)		
		PE 19B, BX	Intermediate Volleyball (.5, 1)		
		PE 19C, CX	Advanced Volleyball (.5, 1)		
		PE 19T	Tournament Volleyball (.5, 1)		
		PE 20A, AX	Beginning Archery (.5, 1)		
		PE 20B, BX	Intermediate Archery (.5, 1)		
		PE 21A, AX	Beginning Tennis (.5, 1)		
		PE 21B, BX	Adv. Beginning Tennis (.5, 1)		
		PE 21C, CX	Intermediate Tennis (.5, 1)		
		PE 21D, DX	Advanced Tennis (.5, 1)		
		PE 21E	Competitive Tennis (2.5)		

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AREA E: Physical Education, Development And Performance *(continued from previous page)*

PE 32P	Techniques of Competitive Swimming (2)	PE 44M	Intercollegiate Men's Basketball (3)	PE 98D	Intercollegiate Football (1.5)
PE 32S	Women's Soccer Techniques (2)	PE 44W	Intercollegiate Women's Basketball (3)	PE 98E	Intercollegiate Water Polo (1.5)
PE 32T	Tennis Techniques (2)	PE 45	Intercollegiate Men's/Women's Swimming and Diving (3)	PE 98F	Intercollegiate Women's Volleyball (1.5)
PE 32W	Softball Techniques (2)	PE 46	Intercollegiate Track and Field (3)	PE 98G	Intercollegiate Cross Country (Men and Women) (1.5)
PE 33A, AX	Soccer (.5, 1)	PE 47M	Intercollegiate Baseball (3)	PE 98H	Intercollegiate Men's Basketball (1.5)
PE 33I, IX	Indoor Soccer (.5, 1)	PE 47W	Intercollegiate Softball (3)	PE 98J	Intercollegiate Women's Basketball (1.5)
PE 37A	Theory and Technique of Jazz Dance I (1) (same as DANC 37A)	PE 48M	Intercollegiate Men's Tennis (3)	PE 98K	Intercollegiate Swimming and Diving (1.5)
PE 37B	Theory and Technique of Jazz Dance II (2) (same as DANC 37B)	PE 48W	Intercollegiate Women's Tennis (3)	PE 98L	Intercollegiate Track and Field (Men and Women) (1.5)
PE 38W	Intercollegiate Women's Badminton (3)	PE 49A	Topics in Theory and Technique of World Dance (1) (same as DANC 49A)	PE 98M	Intercollegiate Baseball (1.5)
PE 39M	Intercollegiate Men's Soccer (3)	PE 71	Lifetime Wellness and Fitness Center Laboratory (1)	PE 98N	Intercollegiate Softball (1.5)
PE 39W	Intercollegiate Soccer (Women) (3)	PE 98A	Intercollegiate Women's Badminton (1.5)	PE 98P	Intercollegiate Men's Tennis (1.5)
PE 40	Intercollegiate Football (3)	PE 98B	Intercollegiate Men's Soccer (1.5)	PE 98Q	Intercollegiate Women's Tennis (1.5)
PE 41	Intercollegiate Water Polo (3)	PE 98C	Intercollegiate Women's Soccer (1.5)	PE 99L, LX	Lacrosse (.5, 1)
PE 42W	Intercollegiate Volleyball (Women) (3)				
PE 43	Intercollegiate Cross Country (3)				

PHYSICAL EDUCATION (ADAPTED) ACTIVITIES

PEA 1, X, Y, Z	Adapted Total Fitness (.5, 1, 1.5, 2)	PEA 4, X, Y, Z	Adapted Cardiovascular Training (.5, 1, 1.5, 2)	PEA 6X, Y	Adapted Outdoor Education (1, 1.5)
PEA 2, X, Y, Z	Adapted Strength Development (.5, 1, 1.5, 2)	PEA 5, X, Y, Z	Adapted Aquatic Exercise (.5, 1, 1.5, 2)		

NON-PE ACTIVITY COURSE(S)

CD 61	Music and Movement (Developmental Foundations) (3)	PE 30	Introduction to Physical Education/Kinesiology (4)	PE 54	Introduction to Massage (4)
HLTH 51	Health and Fitness (4) (same as PE 51)	PE 51	Health and Fitness (4) (same as HLTH 51)	PE 70A	Orientation to the Lifetime Fitness (2)
NUTR 10	Contemporary Nutrition (4)	PE 53	Physical Stress Management (2)	SPCH 60	Facilitating Collaborative Communication (4)



Check box
 when area or
 requirement
 is met

Student Name _____

Student I.D. Number _____

Graduation requirements for the A.A./A.S. degree include:

- ☒ Demonstrated proficiency in reading and written expression (Requirement satisfied through Area A1 below.)
- ☐ Demonstrated proficiency in mathematics by completing MATH 104 (Applied Technologies majors only), or MATH 114 (or 105) or equivalent or higher with a grade of "C" or better (or) achieving a score of 3 or higher on one AP mathematics exam (or) satisfactory score on the De Anza Intermediate Algebra Placement Test.
- Completion of General Education requirements with a minimum GPA of 2.0.

AREA A: Language and Rationality

**9-14 qtr.
units**

- ☐ **A1 - ENGLISH COMPOSITION** - Demonstrate proficiency in reading and written expression by achieving a score of 3 or higher on either AP Language and Composition or Literature and Composition exams (or) completing one of the following courses with a grade of "C" or better:
EWRT 1A or ESL 5 **5 Units**
- ☐ **A2 - ORAL COMMUNICATION** - Select one course:
SPCH 1 or SPCH 10 **4 Units**
- ☐ **A3 - CRITICAL THINKING** - For the AA degree, select one of the following courses: (If completing the AS degree, this sub-area is satisfied.)
EWRT 2, EDUC 46, MATH 10, 44, 46, PHIL 3, 4, 7, SPCH 8, 9, 15 **0-5 Units**

AREA B: Natural Sciences

4-6 qtr. units

Select **one** course in the **Biological** or **Physical Sciences**. Note: Completion of the nursing major clears this requirement. Underlined courses have a laboratory component.

- ☐ **Biological Science:** ANTH 1, 1/1L, BIOL 5, 6A, 8, 10, 11, 13, 15, ESCI 1, 1/1L, 19, 20, 30, E S 2@
- ☐ **Physical Sciences:** ASTR 4, 10, CHEM 10, GEO 1, GEOL 10, 20, MET 10, 10/10L, PHYS 2A, 4A, 10

AREA C: Arts & Humanities

8-9 qtr. units

Select **one** course from the **Arts** category and **one** course from the **Humanities** category. One **ICS** course must be taken in Area C or D.

- ☐ **C1 - ARTS:** ARTS 1A, 1B, 2A, 2B, 2C, 2D, 2F*, 2G, 2H, 2J, 2K, 2L, 3TC@, 3TD, 3TE, DANC 38A, ELIT 1, 6*, E S 3@, F/TV 1, 2A, 2AW, 2B, 2BW, 48*, 75G, 95A@, 95AW@, HUMI 1@, 15, ICS 5, 14, 33, 45, INTL 10, 21, 22, 23, 24, MUSI 1A, 1B, 1C, 1D, PHTG 7, 20, 21, THEA 1, WMST 3C@
- ☐ **C2 - HUMANITIES:** CANT 1, 2, 3, EDUC 58, ELIT 10, 11, 12, 17, 19, 20, 21, 22, 23, 24*, 25, 26, 39, 44, 46A, 46B, 46C, 48A, 48B, 48C, 58, ESL 6, EWRT 1B, 1C, 30, E S 2@, F/TV 95A@, 95AW@, FREN 1, 2, 3, 4, 5, 6, 10, GERM 1, 2, 3, 4, 5, 6, HEBR 1, 2, 3, HNDI 1, 2, 3, HIST 4A, 4B, 4C, 4D, HUMI 1@, 2, 5, 6, 7, 9, 10, 13, 14A, 14B, 14C, 16, 18, 20, ICS 11, 12, 24, 35, 44, 46, INTL 11, 13, 30, 34, ITAL 1, 2, 3, 4, JAPN 1, 2, 3, 4, 5, 6, KORE 1, 2, 3, 4, 5, 6, LING 1, MAND 1, 2, 3, 4, 5, 6, PERS 1, 2, 3, 4, 5, 6, PHIL 1, 2, 8, 9, 14A, 14B, 14C, 20A, 20B, 20C, 24, 30, 49, RUSS 1, 2, 3, SIGN 1, 2, 3, SPAN 1, 2, 3, 4, 5, 6, URDU 1, 2, 3, 4, 5, 6, VIET 1, 2, 3, 4, 5, 6, WMST 21, 23, 49

AREA D: Social & Behavioral Sciences:

8 qtr. units

Select **one** course from the **Behavioral Sciences** category and **one** course from the **History and Society** category. One **ICS** course must be taken in Area C or D.

- ☐ **D1 - BEHAVIORAL SCIENCE:** ANTH 2, 3, 4, 6, BUS 80, C D 10G, 10H, 12, E S 1, HUMA 10@, ICS 4, 7, 8, 31, 41, INTL 8, PSYC 1, 6, 8, 9, 10G, 10H, 12, 14, SOSC 17, SOC 1, 5, 8, 20, 28, 35, SPCH 7*, 16, 70, WMST 1, 8*, 12, 17, 28
- ☐ **D2 - HISTORY AND SOCIETY:** ADMJ 29*, ARTS 3TC@, BUS 21, CIS 2, ECON 1, 2, E S 2@, 3@, F/TV 10, GEO 4, 5, 10, HIST 2, 3A*, 3B*, 3C*, 7A*, 7B*, 9, 10, 11, 16A*, 16B*, 17A, 17B, 17C, 18A*, 18B*, 19A, 19B, 28*, HUMA 10@, 50, HUMI 17, ICS 3A, 3B, 3C, 9, 10, 16A, 16B, 17, 18A, 18B, 20, 22, 28, 29, 30, 32, 37, 38A, 38B, 42, 43, 55, INTL 5, 15, 19A, 19B, 33, JOUR 2, PHIL 10, 17*, POLI 1, 2, 3, 5, 15, 16, 33, SOSC 15, 16, WMST 3C@, 9, 15, 16

AREA E: Physical Education, Development and Performance

2-5 qtr. units

At least one unit must be completed from **PE/PEA/DANC** Activities.

Non-PE Activity Course(s): C D 61, HLTH 51, NUTR 10, P E 30, 51, 53 (2 units), 54, 70A (2 units), SPCH 60

Physical Education (PE)/DANC Activities

DANC 22K, 22L, 23A, 23B, 23L, 23M, 24A, 24B, 24C, 25A, 37A, 37B, 49A

P E 1A, 1H, 1HX, 2A, 2AX, 2B, 2BX, 2K, 2KX, 2L, 2LX, 2P, 2PX, 2Q, 2QX, 2R, 2RX, 2S, 2SX, 2Y, 2YX, 3, 3X, 3AX, 3AY, 3G, 3GX, 4, 4X, 5AX, 5AY, 6B, 6BX, 6D, 6DX, 6F, 6FX, 6G, 6GX, 6H, 6HX, 6K, 6KX, 6Q, 6QX, 6R, 6RX, 6S, 6SX, 6U, 6UX, 6UY, 6V, 6VX, 8, 8X, 9, 9X, 9Y, 10, 10X, 10Y, 11, 11X, 12, 12X, 13A, 13AX, 13B, 13BX, 13C, 13CX, 13T, 13TX, 14A, 14AX, 14B, 14BX, 15, 15X, 16A, 16AX, 16B, 16BX, 19A, 19AX, 19B, 19BX, 19C, 19CX, 19T, 20A, 20AX, 20B, 20BX, 21A, 21AX, 21B, 21BX, 21C, 21CX, 21D, 21DX, 21E, 22K, 22L, 23A, 23B, 23L, 23M, 24A, 24B, 24C, 25A, 26A, 26AX, 26B, 26BX, 26C, 26CX, 26D, 26DX, 28A, 32B, 32F, 32G, 32H, 32I, 32J, 32K, 32L, 32M, 32N, 32P, 32S, 32T, 32W, 33A, 33AX, 33I, 33IX, 37A, 37B, 38W, 39M, 39W, 40, 41, 42W, 43, 44M, 44W, 45, 46, 47M, 47W, 48M, 48W, 49A, 71, 98A, 98B, 98C, 98D, 98E, 98F, 98G, 98H, 98J, 98K, 98L, 98M, 98N, 98P, 98Q, 99L, 99LX

Physical Education - Adapted (PEA) Activities

PEA 1, 1X, 1Y, 1Z, 2, 2X, 2Y, 2Z, 4, 4X, 4Y, 4Z, 5, 5X, 5Y, 5Z, 6X, 6Y

- | | |
|--|--|
| <input type="checkbox"/> ICS Requirement Met in Area C or D | Total Units (31-42 Quarter Units) |
|--|--|

* - In addition to ICS, courses with asterisks meet ICS requirement

@ Courses listed in two areas can only be counted in one.

Check box when area is completed

Student Name _____

Student I.D. Number _____

De Anza College's requirements for the certification of CSUGE differ from the requirements identified by the California State University and the information published on ASSIST. Students must complete the CSUGE requirements stated in the De Anza College Catalog and Schedule of Classes in order to qualify for CSUGE certification by De Anza College. There is no catalog year or rule of continuing attendance for CSUGE certification. A course is certifiable if, and only if, it was on the CSUGE requirement list at the time the course was taken. Upon enrolling in final course requirements and receiving conditional admissions to the University, students must submit a request for certification to De Anza's Office of Admissions. Forms are available at Admissions and Records, Counseling, and at www.deanza.edu/counseling/forms.html

AREA A: ENGLISH LANGUAGE COMMUNICATION & CRITICAL THINKING Includes instruction in oral communication, written communication and critical thinking. All courses must be completed with a grade of C or better. **12-15 qtr. units** **Units Completed:**

☐ **A1: Oral Communication:** **SPCH 1 OR SPCH 10**
Other Course & College: _____ Qtr. Units: _____ **No AP/IB Exam Credit for Area A1**

☐ **A2: Written Communication:** **EWRT 1A OR ESL 5**
Other Course & College: _____ Qtr. Units: _____ AP Exam Credit: _____

☐ **A3: Critical Thinking:** **EWRT 2 OR PHIL 3 OR PHIL 4 OR PHIL 7 OR SPCH 8 OR SPCH 9 OR SPCH 15**
Other Course & College: _____ Qtr. Units: _____ **No AP/IB Exam Credit for Area A3**

AREA B: SCIENTIFIC INQUIRY & QUANTITATIVE REASONING Includes instruction in physical science, life science, and mathematics/quantitative reasoning. At least one science course must have a lab component. **12-15 qtr. units** **Units Completed:**

☐ **B1: Physical Science:** **ASTR 4, 10, CHEM 1A, 10, GEO 1, GEOL 10, 20, MET 10, 10/10L, PHYS 2A, 4A, 10**
Other Course & College: _____ Qtr. Units: _____ AP/CLEP/IB Credit: _____

☐ **B2: Life Science:** **ANTH 1, 1/1L, BIOL 5, 6A, 10, 11, 13, 15, ESCI 1, 1/1L, 19, 20**
Other Course & College: _____ Qtr. Units: _____ AP/CLEP/IB Credit: _____

☐ **B3: Lab Activity:** **Underlined courses in B1 and B2 include a lab.** AP Exam (See credit in Area B1 or B2 above): _____

☐ **B4: Mathematics/Quantitative Reasoning (A grade of C or better is required.) Select one from: MATH 1A, 1B, 1C, 1D, 2A, 2B, 10, 11, 12, 22, 23, (41 OR 49A), (43 OR 49B), 44, 46, 52, EDUC 46**
Other Course & College: _____ Qtr. Units: _____ AP/CLEP/IB Credit: _____

AREA C: ARTS & HUMANITIES At least one course is the Arts and one in the Humanities. One ICS course must be taken in Area C or D. **12-15 qtr. units** **Units Completed:**

Students must take one course from: **EWRT 1B (5) or ESL 6 (5)**

☐ Other Course & College: _____ Qtr. Units: _____

☐ **C1 – Arts:** **ARTS 1A, 1B, 2A, 2B, 2C, 2D, 2F*, 2G, 2H, 2J, 2K, 2L, 3TC#, 3TD, 3TE/L, DANC 38A, ELIT 1#, 6*, E S 3#, F/TV 1#, 2A, 2AW, 2B, 2BW, 48*, 75G, 95A#, 95AW#, HUM1 1#, 15, ICS 5#, 14, 33, 45, INTL 10, 21, 22, 23, 24, MUSI 1A, 1B, 1C, 1D, PHTG 7, 20, 21, THEA 1, WMST 3C#**
Other Course & College: _____ Qtr. Units: _____ AP/IB Exam Credit: _____

☐ **C2 – Humanities:** **CANT 1, 2, 3, EDUC 58, ELIT 1#, 10, 11, 12, 17, 19, 21, 22, 23, 24*, 25, 26, 39, 44, 46A, 46B, 46C, 48A, 48B, 48C, 58, EWRT 1C, 30, F/TV 1#, 95A#, 95AW#, FREN 1, 2, 3, 4, 5, 6, 10, GERM 1, 2, 3, 4, 5, 6, HEBR 1, 2, 3, HNDI 1, 2, 3, HIST 4A, 4B, 4C, 4D, HUM1 1#, 2, 5, 6, 7, 9, 10, 13, 14A, 14B, 14C, 16#, 18, 20, ICS 11#, 12, 24, 35, 44, 46, INTL 11, 13, 30, 34, ITAL 1, 2, 3, 4, JAPN 1, 2, 3, 4, 5, 6, KORE 1, 2, 3, 4, 5, 6, LING 1, 2, 3, 4, 5, 6, PERS 1, 2, 3, 4, 5, 6, PHIL 1, 2, 8, 9, 14A, 14B, 14C, 20A, 20B, 20C, 24, 30, 49, RUSS 1, 2, 3, SIGN 1, 2, 3, SPAN 1, 2, 3, 4, 5, 6, URDU 1, 2, 3, 4, 5, 6, VIET 1, 2, 3, 4, 5, 6, WMST 21, 23, 49**
Other Course & College: _____ Qtr. Units: _____ AP/CLEP/IB Credit: _____

AREA D: SOCIAL SCIENCES Select two courses from the following disciplines (D1-D0). One ICS course must be taken in Area C or D. **16 qtr. units** **Units Completed:**

Two courses from American History and Institutions required: HIST 17A# or 17B# or 17C# - (4 ea.) AND POLI 1 (4)

☐ Other Course & College: _____ Qtr. Units: _____ AP/CLEP Credit: _____

☐ Other Course & College: _____ Qtr. Units: _____ AP Exam Credit: _____

Political Science courses that do not appropriately cover California state and local government or the U.S. Government & Politics AP Exam (min. score of 3) must be combined with a passing score on the California Challenge Exam. See a counselor or academic advisor for more information.

D1 - Anthropology and Archaeology: **ANTH 2#, 3, 4#, 6, ICS 37#**

D2 - Economics: **BUS 21#, ECON 1, 2**

D3 - Ethnic Studies: **ADMJ 29#, ARTS 2F*, HIST 18A#, 18B#, ICS 4#, 5#, 8#, 9, 10, 11#, 18A#, 18B#, 20, 22#, 29#, 30, 31, 32#, 41, 42#, 43#, 55, POLI 16#, SOSOC 16#, WMST 8#, 16#**

☐ **D4 - Gender Studies:** **ARTS 3TC#, HIST 9#, HUMA 10#, ICS 4#, 8#, PSYC 12#, SOC 28#, WMST 1#, 3C#, 8#, 9#, 12#, 28#**

D5 - Geography: **GEO 4, 5, 10**

D6 - History: **ARTS 2F*, 3TC#, CIS 2#, HIST 2#, 3A*, 3B*, 3C*, 7A*, 7B*, 9#, 10, 11, 16A*, 16B*, 17A#, 17B#, 17C#, 18A#, 18B#, 19A, 19B, 28*, ICS 3A, 3B, 3C, 5#, 16A, 16B, 18A#, 18B#, 22#, 28, 32#, 37#, 38A, 38B, 42#, 43#, INTL 19A, 19B, WMST 3C#, 9#**

☐ **D7 - Interdisciplinary, Social and Behavioral Sciences:** **ANTH 4#, BUS 80, C D 10G, 10H, 12, E S 1, 3#, F/TV 10, HIST 2#, HUMA 10#, 50#, HUM1 17, ICS 4#, 7, 17, 37#, INTL 5, 8, 15, 33, JOUR 2, PHIL 17*, POLI 15, 16#, 33, PSYC 1#, 10G, 10H, SOSOC 15, 16#, 17, SOC 1#, 5, 28#, SPCH 7*, 70, WMST 15, 16#, 17, 28#**

D8 - Political Science, Government and Legal Institutions: **ADMJ 29#, BUS 21#, ICS 29#, PHIL 10, POLI 2, 3, 5**

D9 - Psychology: **HUMA 10#, PSYC 1#, 6, 8#, 9#, 12#, 14#, WMST 12#**

D0 - Sociology and Criminology: **SOC 1#, 8, 20, 28#, 35, WMST 28#**

Other Course & College: _____ Qtr. Units: _____ AP/CLEP/IB Credit: _____

Other Course & College: _____ Qtr. Units: _____ AP/CLEP/IB Credit: _____

AREA E: LIFELONG LEARNING & SELF-DEVELOPMENT No more than 2 units of DANC/PE activity may apply. **4-5 qtr. units** **Units Completed:**

Non-PE Activity Courses: **ANTH 2#, BIOL 8, CIS 2#, CLP 70, E S 2, ESCI 30, HLTH 21, 51, HIST 9#, HUMA 10#, 20, 50#, HUM1 16#, NUTR 10, ♦ P E 51, 53 (2 units), 70A (2 units), PSYC 8#, 9#, 12#, 14#, SPCH 16, WMST 1#, 9#, 12#**

Physical Education (PE)/DANC Activity Courses:

DANC 22K, 22L, 23A, 23B, 23L, 23M, 24A, 24B, 24C, 25A, 37A, 37B, 49A, P E 1A, 1H, 1HX, 2A, 2AX, 2B, 2BX, 2K, 2KX, 2L, 2LX, 2P, 2PX, 2Q, 2QX, 2R, 2RX, 2S, 2SX, 2Y, 2YX, 3, 3X, 3AX, 3AY, 3G, 3GX, 4, 4X, 5AX, 5AY, 6B, 6BX, 6D, 6DX, 6F, 6FX, 6G, 6GX, 6H, 6HX, 6K, 6KX, 6Q, 6QX, 6R, 6RX, 6S, 6SX, 6U, 6UX, 6UY, 6V, 6VX, 8, 8X, 9, 9X, 9Y, 10, 10X, 10Y, 11, 11X, 12, 12X, 13A, 13AX, 13B, 13BX, 13C, 13CX, 13T, 13TX, 14A, 14AX, 14B, 14BX, 15, 15X, 16A, 16AX, 16B, 16BX, 19A, 19AX, 19B, 19BX, 19C, 19CX, 19T, 20A, 20AX, 20B, 20BX, 21A, 21AX, 21B, 21BX, 21C, 21CX, 21D, 21DX, 21E, 22K, 22L, 23A, 23B, 23L, 23M, 24A, 24B, 24C, 25A, 26A, 26AX, 26B, 26BX, 26C, 26CX, 26D, 26DX, 28A, 28G, 32B, 32F, 32G, 32H, 32I, 32J, 32K, 32L, 32M, 32N, 32P, 32S, 32T, 32W, 33A, 33AX, 33I, 33IX, 37A, 37B, 38W, 39M, 39W, 40, 41, 42W, 43, 44M, 44W, 45, 46, 47M, 47W, 48M, 48W, 49A, 71, 98A, 98B, 98C, 98D, 98E, 98F, 98G, 98H, 98J, 98K, 98L, 98M, 98N, 98P, 98Q, 99L, 99LX, PEA 1, 1X, 1Y, 1Z, 2, 2X, 2Y, 2Z, 4, 4X, 4Y, 4Z, 5, 5X, 5Y, 5Z, 6X, 6Y

Other Course & College: _____ Qtr. Units: _____ CLEP Credit: _____

☐ **ICS REQUIREMENT MET IN AREA C OR D** **TOTAL UNITS (Min. 58 Quarter Units*):**

♦ - Courses may be added to CSUGE Breadth mid-academic year. These will be highlighted and identified in **bold print**, followed by the effective start term in parentheses on this form. Check www.deanza.edu/transfer and www.assist.org for updates during the Spring 2011 term.

- Courses listed in two areas can be counted in only one.

▲ - Students transferring to SFSU are advised to select EWRT 1A & 1B

+ - No more than 45 quarter units from Areas B - D may be used towards certification.

* - In addition to ICS, courses with asterisks meet ICS requirement.

♦ - Non-PE Activity Courses will not fulfill SJSU's Physical Education Requirement for graduation.

Intersegmental General Education Transfer Curriculum (IGETC) for 2010-2011

Effective: Fall 2010 through Summer 2011 ♦

Student Name _____

Student I.D. Number _____

Check box
when
area is
completed

Completion of requirements in the Intersegmental General Education Transfer Curriculum (IGETC) will permit a student to transfer from a community college to a campus in either the California State University or the University of California system without the need, after transfer, to take additional lower division, general education courses to satisfy campus general education requirements. ALL COURSES MUST BE COMPLETED WITH GRADES OF "C" OR BETTER. A COURSE MUST APPEAR ON IGETC IN THE YEAR IT IS SATISFACTORILY COMPLETED. See a counselor/academic adviser about UC majors, colleges, and professional schools which do not accept IGETC, and for other transfer requirements. Upon enrolling in final course requirements and receiving conditional admissions to the University, students must submit a request for certification to De Anza's Office of Admissions and Records. Forms are available in Admissions and Records, Counseling and at www.deanza.edu/counseling/forms.html.

AREA 1: ENGLISH COMMUNICATION All students complete Areas 1A and 1B. CSU students add Area 1C. (Two to three courses)		10-14 qtr. units	Units Completed:
<input type="checkbox"/>	AREA 1A: ENGLISH COMPOSITION (One course, 4-5 qtr units): EWRT 1A Other Course & College: _____ Qtr. Units: _____ AP Exam Credit: _____		
<input type="checkbox"/>	AREA 1B: CRITICAL THINKING-ENGLISH COMPOSITION (One course, 4-5 qtr units): EWRT 2 OR PHIL 3 OR SPCH 9 Other Course & College: _____ Qtr. Units: _____ No AP/IB Exam Credit for Area 1B		
<input type="checkbox"/>	AREA 1C: ORAL COMMUNICATION (CSU Requirement only) (One course, 4-5 qtr units): SPCH 1 OR SPCH 10* Other Course & College: _____ Qtr. Units: _____ No AP/IB Exam Credit for Area 1C		
<input type="checkbox"/>	AREA 2: MATHEMATICAL CONCEPTS & QUANTITATIVE REASONING (One course)	4-5 qtr. units	Units Completed:
Select one course from: MATH 1A* , 1B, 1C, 1D, 2A, 2B, 10*, 11, 12*, 22, 23*, (43 OR 49B), 44 Other Course & College: _____ Qtr. Units: _____ AP/IB Exam Credit: _____			
AREA 3: ARTS & HUMANITIES (At least three courses, including one from the Arts and one from Humanities)		12-15 qtr. units	Units Completed:
<input type="checkbox"/>	3A – ARTS: ARTS 1A, 1B, 2A, 2B, 2C, 2D, 2F, 2G, 2H, 2J, 2K, 2L, 3TC#, 3TD, 3TE*, DANC 38A, ELIT 1, 6, ES 3#, F/TV 1, 2A*, 2AW*, 2B*, 2BW*, 48, HUMI 1#, 15 ICS 5, 14, 33, 45, INTL 10, 21, 22, 23, 24, MUSI 1A, 1B, 1C, 1D, PHTG 7, 20, 21, THEA 1, WMST 3C# Other Course & College: _____ Qtr. Units: _____ AP/IB Exam Credit: _____		
<input type="checkbox"/>	3B – HUMANITIES: CANT 3*, ELIT 10, 11, 12, 17, 19, 21, 22, 23, 24, 25, 26, 39, 44, 46A, 46B, 46C, 48A, 48B, 48C, EWRT 1C, FREN 3*, 4, 5, 6, 10*, GERM 3, 4, 5, 6, HEBR 3, HNDI 3, HIST 4A, 4B, 4C, 4D, HUMI 1#, 2, 5, 6, 7, 9, 10, 13, 14A, 14B, 14C, 16, 18, 20, ICS 11#, 12, 24, 35, 44, 46, INTL 11, 13, 30, 34, ITAL 3, 4, JAPN 3, 4, 5, 6, KORE 3, 4, 5, 6, LING 1, MAND 3*, 4, 5, 6, PERS 3, 4, 5, 6, PHIL 1, 2, 8, 9, 14A, 14B, 14C, 20A, 20B, 20C, 24, 30, 49, RUSS 3, SIGN 3, SPAN 3, 4, 5, 6, URDU 3, 4, 5, 6, VIET 3, 4, 5, 6, WMST 21, 23, 49 Other Course & College: _____ Qtr. Units: _____ AP/IB Exam Credit: _____		
AREA 4: SOCIAL & BEHAVIORAL SCIENCES (At least three courses from at least two disciplines (4A-4J) or an interdisciplinary sequence)		12-15 qtr. units	Units Completed:
4A – ANTHROPOLOGY AND ARCHAEOLOGY: ANTH 2, 3, 4, 6, ICS 37# 4B – ECONOMICS: ECON 1, 2 <input type="checkbox"/> 4C – ETHNIC STUDIES: ADMJ 29#, HIST 18A#, 18B#, ICS 4#, 8, 9, 10, 11#, 18A#, 18B#, 20, 22#, 29#, 30, 31, 32#, 41, 42#, 43#, POLI 16#, SOSC 16#, WMST 8, 16# 4D – GENDER STUDIES: ARTS 3TC#, HIST 9#, HUMA 10#, ICS 4#, PSYC 12#, SOC 28#, WMST 1, 3C#, 9#, 12#, 28# <input type="checkbox"/> 4E – GEOGRAPHY: GEO 4, 5, 10 <input type="checkbox"/> 4F – HISTORY: ARTS 3TC#, HIST 2#, 3A, 3B, 3C, 7A, 7B, 9#, 10, 11, 16A, 16B, 17A+, 17B+, 17C+, 18A#, 18B#, 19A, 19B, 28, ICS 3A, 3B, 3C, 16A, 16B, 18A#, 18B#, 22#, 28, 32#, 37#, 38A, 38B, 42#, 43#, INTL 19A, 19B, WMST 3C#, 9# <input type="checkbox"/> 4G – INTERDISCIPLINARY, SOCIAL AND BEHAVIORAL SCIENCES: C D 10G, 10H, 12, ES 1, 3#, F/TV 10, HIST 2#, HUMA 10#, HUMI 17, ICS 4#, 7, 17, 37#, INTL 5, 8, 15, 33, JOUR 2, PHIL 17, POLI 15, 16#, 33, PSYC 10G, 10H, SOSC 15, 16#, 17, SOC 5, 28#, SPCH 7, WMST 15, 16#, 17, 28# <input type="checkbox"/> 4H – POLITICAL SCIENCE, GOVERNMENT AND LEGAL INSTITUTIONS: ADMJ 29#, ICS 29#, PHIL 10, POLI 1+, 2, 3, 5 4I – PSYCHOLOGY: HUMA 10#, PSYC 1, 6, 8, 9, 12#, 14, WMST 12# 4J – SOCIOLOGY AND CRIMINOLOGY: SOC 1, 8, 20, 28#, 35, WMST 28# Other Course & College: _____ Qtr. Units: _____ AP/IB Exam Credit: _____ Other Course & College: _____ Qtr. Units: _____ AP/IB Exam Credit: _____ Other Course & College: _____ Qtr. Units: _____ AP/IB Exam Credit: _____			
AREA 5: PHYSICAL & BIOLOGICAL SCIENCES (At least two courses, including one Biological Science and one Physical Science ; at least one course must include a laboratory) <input type="checkbox"/> Check box if lab met		9-12 qtr. units	Units Completed:
<input type="checkbox"/>	A – PHYSICAL SCIENCES (Courses with a laboratory are underlined): ASTR 4, 10, CHEM 1A*, 10*, GEO 1, GEOL 10, 20, MET 10, 10/10L, PHYS 2A*, 4A*, 10* Other Course & College: _____ Qtr. Units: _____ AP/IB Exam Credit: _____		
<input type="checkbox"/>	B – BIOLOGICAL SCIENCES (Courses with a laboratory are underlined): ANTH 1, 1/1L, BIOL 6A, 10*, 11*, 13, 15, ESCI 1, 1/1L, 19*, 20* Other Course & College: _____ Qtr. Units: _____ AP/IB Exam Credit: _____		
AREA 6: LANGUAGE OTHER THAN ENGLISH (UC Requirement Only)			Units Completed:
Proficiency in a Language Other Than English (UC Requirement Only): Students must demonstrate proficiency equivalent to two years of high school study in the same language. (If requirement was met in high school, transcripts must be on file at De Anza.) For more information, visit www.deanza.edu/transfer/ucge.html Complete one of the following courses with a grade of "C" or better: ARBC 2, 3, 4, 5, 6, CANT 2*, 3*, FREN 2*, 3*, 4, 5, 6, 10*, GERM 2, 3, 4, 5, 6, HEBR 2, 3, HNDI 2, 3, ITAL 2, 3, 4, JAPN 2, 3, 4, 5, 6, KORE 2, 3, 4, 5, 6, MAND 2*, 3*, 4, 5, 6, PERS 2, 3, 4, 5, 6, RUSS 2, 3, SIGN 2, 3, SPAN 2, 3, 4, 5, 6, URDU 2, 3, 4, 5, 6, VIET 2, 3, 4, 5, 6 Other Course & High School/College: _____ Qtr. Units: _____ AP/IB Exam Credit: _____			
		TOTAL UNITS (47-61 Quarter Units):	

♦ - Courses may be added to IGETC mid-academic year. These will be highlighted and identified in **bold print**, followed by the effective start term in parentheses on this form.Check www.deanza.edu/transfer/ and www.assist.org for updates during the Spring 2011 term.

- Courses listed in two areas can be counted in only one.

* - Indicates that transfer credit may be limited by either UC or CSU or both. See www.assist.org for more information.

^ - International Baccalaureate (IB) Exam does not fulfill laboratory requirement.

NOTE: + CSU **graduation** requirement in United States History, Constitution and American Ideals (AI): (**HIST 17A** or **17B** or **17C**) and **POLI 1** fulfill this requirement. CSU campuses have the discretion whether to allow courses used in Areas 4F/4H to also satisfy the (AI) graduation requirement. UC **graduation** requirement in American History & Institutions: If this requirement was not satisfied in high school, check UC campus catalog(s) for more information.

Certificate and A.A./A.S. Degree Programs

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Automotive Chassis and Powertrain	60	Liberal Arts	85
Automotive Chassis Technology	59	Management	86
Automotive Engine Performance.....	58/60	Manufacturing and Computer-Aided	
Automotive Machining and Engine Repair	58/60	Numerical Control (CNC)	86
Automotive Powertrain Technology.....	59	Manufacturing Systems Technician.....	87
Automotive Smog Technician.....	60	Marketing Management	88
Automotive Technician	58	Massage Therapy	89
Automotive Technology.....	60	Medical Assisting	82
Biodiversity Specialist	71	Medical File Clerk	80
Biological Sciences	60	Medical Laboratory Technology	90
Bookkeeping	53	Medical Reception	80
Business Administration.....	61	Medical Records Clerk	81
Business Office Clerk	79	Medical Secretary.....	82
Business Programming	68	Medical Transcription	81
Business Software Applications.....	61	Museum Studies	57
CAD/CAM–Mastercam	86	Music	90
Ceramics	57	Network Administration.....	68
Child Development.....	63	Network Basics	69
Computer Aided Design (CAD).....	65	Network Programming	69
Computer Animation	76	Nursing Programs	91
Computer Crime Investigation (Forensics) and Security.....	67	Painting	57
Computer Information Systems	67	Paralegal Studies	93
Computer-Aided Numerical Control (CNC)		Phlebotomy Technician I	81
Machine Operator.....	86	Photographic Arts	94
Computer-Aided Numerical Control (CNC) Machinist.....	87	Private Security	54
Computer-Aided Numerical Control (CNC)		Product Model Making	88
Research and Development Machinist	87	Pro/ENGINEER.....	66
Corrections/Probation.....	54	Professional Photography	94
Database Design for Developers (Oracle)	68	Programming	68
Early Childhood Mental Health.....	65	Programming in C/C++	69
Early Intervention/Special Education Assistant.....	65	Programming in JAVA.....	69
Energy Management and Climate Policy	72	Programming in PERL.....	69
English.....	71	Project Management Practitioner.....	95
Enterprise Security Professional	67	Real Estate	95
Entrepreneurship	61	Sculpture	58
Environmental Compliance and Pollution Prevention	73	SolidWorks	65
Environmental Stewardship.....	74	Speech Communication.....	95
Environmental Studies.....	71	System Support Services.....	70
Film Production	74	Systems Programming	69
Film/Television Production: Animation Emphasis	75	Taxation	53
Film/Television Production: Screenwriting	76	Technical Support/System Support Services.....	70
Film/Television Production: Television Emphasis	77	Technical Writing	96
Global Studies.....	77	Television Production	77
Graphic and Interactive Design.....	79	UNIX/LINUX Operating System.....	70
Health Technologies	79	Visual Basic Programming	70
Help Desk	70	Web Development	70
Home/Small Business Computer Security.....	67	Wildlife Corridor Technician.....	73

CERTIFICATE and A.A./A.S. DEGREE PROGRAMS

Each individual department's curriculum sheet for its certificate and degree programs is also available in the Counseling Center and on the Web at www.deanza.edu/counseling/degrecert.html. Division offices for the various departments often have sheets available as well.

Students transferring to other colleges should complete as many requirements of that college as possible. Articulation agreements between De Anza and California public four-year institutions are available on the Web at www.assist.org. Students should also contact a counselor or adviser for program planning from the catalog of the desired transfer institution and maintain regular contact prior to transfer.

Although care has been taken to ensure the accuracy of the information that follows, there may be unintended errors and changes or deletions without notification.

General Requirements

To Earn a Certificate or Degree

1. Complete the course requirements listed.
2. Meet the requirements for the corresponding level (Skills Certificate, Certificate of Achievement, Certificate of Achievement-Advanced, A.A./A.S. degree) as specified below.

Skills Certificate

Skills Certificates (programs requiring fewer than 18 units) **are issued by the individual departments and are not notated on official college transcripts.** Contact the department directly for assistance and to apply for Skills Certificates.

Requirements:

A passing grade ("C" or better/"P") in each required course
Note: Each course must be completed at De Anza College.

Certificates of Achievement and Achievement-Advanced

Certificates of Achievement and Achievement-Advanced are awarded by the college and notated on official transcripts. Visit the Counseling and Advising Center to apply for these and for academic planning assistance.

Certificate of Achievement Level Requirements

A minimum "C" grade in each major course

Note: A maximum of six (6) quarter units may be transferred from other academic institutions.

Certificate of Achievement-Advanced Level Requirements

1. A minimum "C" grade in each major course
2. Demonstrated proficiency in English and mathematics as evidenced by eligibility for EWRT 1A or ESL 5 and eligibility for MATH 114

Note: A maximum of 18 quarter units may be transferred from other academic institutions.

A.A./A.S. Degree

A.A./A.S. degrees are awarded by the college and notated on official transcripts.

Requirements:

1. Completion of all General Education (GE) requirements (31-42 quarter units) for the A.A./A.S. degree. GE units must be completed with a minimum 2.0 GPA ("C" average)
2. Completion of all major requirements. Each major course must be completed with a minimum "C" grade.
 Major courses can also be used to satisfy GE requirements (except for Liberal Arts degrees).

Note: A maximum of 22 quarter units from other academic institutions may be applied toward the major.

3. Completion of a minimum of 90 degree-applicable quarter units (GE and major units included). All De Anza courses must be completed with a minimum 2.0 GPA ("C" average). All De Anza courses combined with courses transferred from other academic institutions must be completed with a minimum 2.0 GPA ("C" average).

Note: A minimum of 24 quarter units must be earned at De Anza College.

NOTE: Major courses for certificates and degrees must be completed with a letter grade unless a particular course is only offered on a pass/no-pass basis.

Accounting/including Bookkeeping and Taxation

Accounting

Certificate of Achievement

1. Meet the requirements for this certificate level as specified in the previous column.
2. Complete the following:

ACCT 1A	Financial Accounting I	5
ACCT 1B	Financial Accounting II	5
ACCT 1C	Managerial Accounting	5
ACCT 88	Excel Spreadsheets for Accounting	2

Complete a minimum of nine (9) units from the following:

ACCT 64	Payroll and Business Tax Accounting (3)	
ACCT 66	Cost Accounting (5)	
ACCT 67A	Federal Income Tax (4)	
ACCT 75	Accounting for Government and Nonprofit Entities (5)	
ACCT 86	Computer Accounting Systems (5)	
ACCT 87AH*	Computerized Accounting Programs (Peachtree - Windows) (2)	
ACCT 87AI*	Computerized Accounting Programs (Quickbooks) (2)	
ACCT 105	Basic Financial Accounting Procedures (1)	
	Total Units Required	26

* Only one (1) of these two (2) courses may apply toward the nine (9) units.

Recommended

BUS 10	Introduction to Business (5)
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Accounting: Practice Emphasis

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

ACCT 1A	Financial Accounting I	5
ACCT 1B	Financial Accounting II	5
ACCT 1C	Managerial Accounting	5
ACCT 51A	Intermediate Accounting	5
ACCT 51B	Intermediate Accounting	5
ACCT 88	Excel Spreadsheets for Accounting	2

Complete a minimum of 18 units from the following: 18

ACCT 52	Advanced Accounting (5)	
ACCT 58	Auditing (5)	
ACCT 64	Payroll and Business Tax Accounting (3)	
ACCT 66	Cost Accounting (5)	
ACCT 67A	Federal Income Tax (4)	
ACCT 67B	Advanced Individual Tax: CA Emphasis (4)	
ACCT 68	Advanced Tax Accounting (4)	
ACCT 75	Accounting for Government and Nonprofit Entities (5)	
ACCT 86	Computer Accounting Systems (5)	
ACCT 87AH*	Computerized Accounting Programs (Peachtree - Windows) (2)	
ACCT 87AI*	Computerized Accounting Programs (Quickbooks) (2)	
ACCT 105	Basic Financial Accounting Procedures (1)	
BUS 10	Introduction to Business (5)	
BUS 18	Business Law I (5)	
BUS 69	Investment Fundamentals (4)	
Total Units Required		45

* Only one (1) of these two (2) courses may apply toward the 18 units.

Accounting: Practice Emphasis

A.A. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major	Complete the course requirements for the Certificate of Achievement-Advanced	45 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
Total Units Required		90 units

Accounting: Taxation Emphasis

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

ACCT 1A	Financial Accounting I	5
ACCT 1B	Financial Accounting II	5
ACCT 1C	Managerial Accounting	5
ACCT 64	Payroll and Business Tax Accounting	3
ACCT 67A	Federal Income Tax	4
ACCT 67B	Advanced Individual Tax: CA Emphasis	4
ACCT 68	Advanced Tax Accounting	4
ACCT 88	Excel Spreadsheets for Accounting	2

Complete a minimum of 13 units from the following: 13

ACCT 51A	Intermediate Accounting (4)	
ACCT 51B	Intermediate Accounting (4)	
ACCT 52	Advanced Accounting (5)	
ACCT 58	Auditing (5)	
ACCT 66	Cost Accounting (5)	
ACCT 75	Accounting for Government and Nonprofit Entities (5)	
ACCT 86	Computer Accounting Systems (5)	
ACCT 87AH*	Computerized Accounting Programs (Peachtree - Windows) (2)	
ACCT 87AI*	Computerized Accounting Programs (Quickbooks) (2)	
ACCT 105	Basic Financial Accounting Procedures (1)	
BUS 10	Introduction to Business (5)	
BUS 18	Business Law I	
BUS 69	Investment Fundamentals (4)	
REST 50	Real Estate Principles (4)	
Total Units Required		45

* Only one (1) of these two (2) courses may apply toward the 13 units.

Recommended

BUS 10	Introduction to Business (5)
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Accounting: Taxation Emphasis

A.A. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major	Complete the course requirements for the Certificate of Achievement-Advanced	45 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
Total Units Required		90 units

Bookkeeping

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

ACCT 1A	Financial Accounting I	5
ACCT 1B	Financial Accounting II	5
ACCT 64	Payroll and Business Tax Accounting	3
ACCT 86	Computer Accounting Systems	5
ACCT 88	Excel Spreadsheets for Accounting	2
ACCT 105	Basic Financial Accounting Procedures	1
CAOS 104I	10-Key on the Microcomputer	1/2
CAOS 107G	Business Office Math	2
Complete one (1) course from:		2
ACCT 87AH	Computerized Accounting Programs (Peachtree - Windows) (2)	
ACCT 87AI	Computerized Accounting Programs (Quickbooks) (2)	
Total Units Required		25.5

Recommended	
BUS 10	Introduction to Business (5)

Tax Practitioner

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

ACCT 1A	Financial Accounting I	5
ACCT 1B	Financial Accounting II	5
ACCT 64	Payroll and Business Tax Accounting	3
ACCT 67A	Federal Income Tax	4
ACCT 67B	Advanced Individual Tax: CA Emphasis	4
ACCT 68	Advanced Tax Accounting	4
ACCT 88	Excel Spreadsheets for Accounting	2

Complete a minimum of 18 units from the following: 18

ACCT 1C	Managerial Accounting (5)	
ACCT 52	Advanced Accounting (5)	
ACCT 66	Cost Accounting (5)	
ACCT 75	Accounting for Government and Nonprofit Entities (5)	
ACCT 86	Computer Accounting Systems (5)	
ACCT 87AH*	Computerized Accounting Programs (Peachtree - Windows) (2)	
ACCT 87AI*	Computerized Accounting Programs (Quickbooks) (2)	
ACCT 105	Basic Financial Accounting Procedures (1)	
BUS 18	Business Law I (5)	
	Total Units Required	45

* Only one (1) of these two (2) courses may apply toward the 18 units.

Recommended

BUS 10	Introduction to Business (5)
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Administration of Justice

Corrections/Probation

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.

2. Complete the following:

ADMJ 1	Introduction to Administration of Justice	4
ADMJ 50	Crime, Correction and Society	4
ADMJ 54	Youth and the Law	4
ADMJ 56	Practical Writing for Administration of Justice	4
ADMJ 64X	Administration of Justice Internship	2
ADMJ 73	Crime and Criminology	4
ADMJ 74A	Interviewing, Interrogation and Crisis Intervention	4
ADMJ 75	Principles and Procedures of the Justice System	4
ADMJ 78	Correctional Investigation	4

Complete three (3) courses from the following: 12-13

ADMJ 3	Concepts of Criminal Law (5)	
ADMJ 11	Federal Courts and Constitutional Law (4)	
ADMJ 25	Law and Social Change (4)	
ADMJ 29	Cultural Pluralism and American Law and Justice (4)	
ADMJ 51	Women in Crime (4)	
ADMJ 55	Alcohol, Narcotics and Drug Abuse (4)	
ADMJ 62	Sexual Assault: Police and Community Response (4)	
ADMJ 90A	Legal Aspects of Evidence (4)	

Major	Corrections/Probation	46-47 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

Recommended

ADMJ 5, 53; HIST 17A, 17B; P E 28A; PSYC 1, 4; SOC 1; Spanish (any level); Occupational Work Experience

Law Enforcement

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.

2. Complete the following:

ADMJ 1	Introduction to Administration of Justice	4
ADMJ 3	Concepts of Criminal Law	5
ADMJ 5	Community Relations	4
ADMJ 56	Practical Writing for Administration of Justice	4
ADMJ 61	Criminal Investigation	4
ADMJ 64X	Administration of Justice Internship	2
ADMJ 75	Principles and Procedures of the Justice System	4
ADMJ 90A	Legal Aspects of Evidence	4

Complete three (3) courses from the following: 12-13

ADMJ 11	Federal Courts and Constitutional Law (4)	
ADMJ 25	Law and Social Change (4)	
ADMJ 29	Cultural Pluralism and American Law and Justice (4)	
ADMJ 50	Crime, Correction and Society (4)	
ADMJ 51	Women in Crime (4)	
ADMJ 53	Criminal Law II (5)	
ADMJ 54	Youth and the Law (4)	
ADMJ 55	Alcohol, Narcotics and Drug Abuse (4)	
ADMJ 60	Patrol Procedures (4)	
ADMJ 62	Sexual Assault: Police and Community Response (4)	
ADMJ 73	Crime and Criminology (4)	
ADMJ 74A	Interviewing, Interrogation and Crisis Intervention (4)	

Major	Law Enforcement	43-44 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

Private Security

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

ADMJ 1	Introduction to Administration of Justice	4
ADMJ 60	Patrol Procedures	4
ADMJ 64X	Administration of Justice Internship	2
ADMJ 75	Principles and Procedures of the Justice System	4

Complete a minimum of 23 units from the following: 23

ADMJ 3	Concepts of Criminal Law (5)	
ADMJ 11	Federal Courts and Constitutional Law (4)	
ADMJ 29	Cultural Pluralism and American Law and Justice (4)	
ADMJ 50	Crime, Correction and Society (4)	
ADMJ 53	Criminal Law II (5)	
ADMJ 54	Youth and the Law (4)	
ADMJ 55	Alcohol, Narcotics and Drug Abuse (4)	
ADMJ 56	Practical Writing for Administration of Justice (4)	
ADMJ 61	Criminal Investigation (4)	
ADMJ series	ADMJ 64, 64X, 64Y, 64Z	
	Administration of Justice Internship (1-4)	
ADMJ 90A	Legal Aspects of Evidence (4)	
	Total Units Required	37

Private Security

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.

2. Complete the following:

ADMJ 1	Introduction to Administration of Justice	4
ADMJ 3	Concepts of Criminal Law	5
ADMJ 60	Patrol Procedures	4
ADMJ 64X	Administration of Justice Internship	2
ADMJ 75	Principles and Procedures of the Justice System	4

Complete a minimum of 20 units from the following: 20

ADMJ 11	Federal Courts and Constitutional Law (4)	
ADMJ 29	Cultural Pluralism and American Law and Justice (4)	
ADMJ 50	Crime, Correction and Society (5)	
ADMJ 53	Criminal Law II (5)	
ADMJ 54	Youth and the Law (4)	
ADMJ 55	Alcohol, Narcotics and Drug Abuse (4)	
ADMJ 61	Criminal Investigation (4)	
ADMJ 73	Crime and Criminology (4)	
ADMJ 74A	Interviewing, Interrogation and Crisis Intervention (4)	
ADMJ 90A	Legal Aspects of Evidence (4)	
Major	Private Security	39 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

**For the Paralegal certificate and degree,
see Paralegal Studies.**

Administrative Assistant/ Office Technology

Skills Certificate

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

*If possible, take courses in the order they are listed below
(CAOS 94 may be taken earlier in the sequence.)*

Complete one (1) course from:	1-1 1/2
CAOS 70AA* Elementary Keyboarding I (1 1/2)	
CAOS 173* Keyboarding Skill Development (1)	

* Contact the CAOS department for procedures to substitute this course based on previous knowledge or experience.

Complete one (1) course from:	1/2-2
CAOS 90GA* Computer Literacy 1 (PC) (2)	
CAOS 100G* Orientation to the PC (1/2)	

* Contact the CAOS department for procedures to substitute this course based on previous knowledge or experience.

Complete one (1) course from:	1
CAOS 102L Microsoft Windows I (Windows XP) (1)	
CAOS 102M Microsoft Windows I (Windows Vista) (1)	

Complete one (1) course from:	2
CAOS 91AL Word Processing I (Word XP/2002) (2)	
CAOS 91AM Word Processing I (Word 2007) (2)	

Complete one (1) course from: 2

CAOS 91BL Word Processing II (Word XP/2002) (2)

CAOS 91BM Word Processing II (Word 2007) (2)

Complete:

CAOS 94	Introduction to Internet and World Wide Web	1
	or CIS 94	
	Total Units Required	7 1/2-9 1/2

Certificate of Achievement^Ø

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the Skills Certificate course requirements. 7 1/2-9 1/2

3. Complete the following:

Complete one (1) course from: 2

CAOS 93AL Spreadsheet I (Excel XP/2002) (2)

CAOS 93AM Spreadsheet I (Excel 2007) (2)

Complete one (1) course from: 2

CAOS 110L Database I (Access XP/2002) (2)

CAOS 110M Database I (Access 2007) (2)

Complete one (1) course from: 2

CAOS 130L Introduction to Business Graphics (PowerPoint XP/2002) (2)

CAOS 130M Introduction to Business Graphics (PowerPoint 2007) (2)

Complete the following:

CAOS 104K	Introduction to Proofreading Skills	1
CAOS 104O	Introduction to Filing	1
CAOS 106	Adobe Acrobat	1
CAOS 107G	Business Office Math	2
CAOS 176	Telephone Communications	1
	Total Units Required	19 1/2-21 1/2

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the course requirements listed for the Skills Certificate and the Certificate of Achievement. 19 1/2-21 1/2

3. Complete the following:

CAOS 84A	Business English I	2
CAOS 108	Personal Computer Security Basics	4
	or CIS 108	
CAOS 180J	Spelling Skills	1

Complete one (1) course from: 2

CAOS 111L Database II (Access XP/2002) (2)

CAOS 111M Database II (Access 2007) (2)

Complete a minimum of four (4) units from the following: 4

CAOS 113A	Web Authoring Software (Dreamweaver) (4)	
CAOS 113I	Web Authoring Software I (Dreamweaver) (2)	
CAOS 113Q	Web Authoring Software II (Dreamweaver) (2)	

Total Units Required 32 1/2-34 1/2

^Ø This certificate was submitted for state approval.
Please check with the department for status.

A.A. Degree

1. Meet the AA/AS degree requirements as specified on page 52.
2. Complete the course requirements listed for the Skills Certificate, the Certificate of Achievement, and the Certificate of Achievement-Advanced. 32 1/2-34 1/2
3. Complete the following:

BUS 56	Human Relations in Business	5
BUS 85	Business Communication	3
CAOS 81H	10-Key and Electronic Calculator	1
CAOS 98X*	Internship, Business/Computer Systems Division	4

* Contact the CAOS department for procedures to substitute work experience as an Administrative Assistant for this course.

Complete a minimum of four (4) units from the following which do not duplicate courses chosen from the lists above: 4

ACCT 1A	Financial Accounting I (5)	
BUS 10	Introduction to Business (5)	
CAOS 90GA	Computer Literacy I (PC) (2)	
CAOS 100G	Orientation to the PC (1/2)	
CAOS 104I	Ten-Key on the Microcomputer (1/2)	
CAOS 105	Introduction to HTML (1)	
CAOS 111M	Database II (Access 2007) (2) or CAOS 111L	
CAOS 112A	Digital Imaging Software (Photoshop) (4)	
CAOS 112I	Digital Imaging Software I (Photoshop) (2)	
CAOS 112Q	Digital Imaging Software II (Photoshop) (2)	
CAOS 114A	Web Graphics/Animation Software (Flash) (3)	
CAOS 115A	E-Commerce Software (Dreamweaver/UltraDev) (3)	
CAOS 116I	Web Development Graphics Software I (2)	
CAOS 116Q	Web Development Graphics Software II (2)	
CAOS 118A	Advanced Web Graphics (Flash) (2)	
CAOS 161	Computer Forensics (4) or CIS 161	
CAOS 173	Keyboarding Skill Development (1)	
CAOS 180G	Job Finding Techniques (1)	
SPCH 10	Fundamentals of Oral Communication (4)	
Major	Administrative Assisting/ Office Technology	49 1/2-51 1/2 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

Art

Art History

Certificate of Achievement^Ø

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Complete four (4) of the following Western and Multicultural Arts courses: 16

ARTS 2A	History of Art (Europe from Prehistory through Early Christianity) (4)
ARTS 2B	History of Art (Europe During Middle Ages/Renaissance) (4)
ARTS 2C	History of Art (Europe from the Baroque Period through Impressionism) (4)
ARTS 2D	History of Art (Europe and the United States/Post-Impressionism) (4)

ARTS 2F	History of Art (Multicultural Arts in the United States) (4)
ARTS 2G	Arts of Asia (4)
ARTS 2H	History of Art: Native Arts of Mesoamerica and South America (4)
ARTS 2J	History of Art: Indigenous Arts of the World (4)
ARTS 2K	History of Art: Visual Arts of Islam (4)
ARTS 2L	History of Art: Visual Arts of Africa (4)

Complete one (1) course from: 4

ARTS 3TE	Today's Working Artist (4)
ARTS 3TC	Women and Art (4)

Complete:

ARTS 4A	Beginning Drawing	3
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Complete one (1) course from: 3

ARTS 8	Two-Dimensional Design (3)	
ARTS 10A	Three-Dimensional Design (3)	
ARTS 53A	Introduction to Visual Technology (3)	
	Total Units Required	26

Art History

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the Certificate of Achievement course requirements. 26
3. Complete the following:

Complete these two (2) courses:

ARTS 1B	Architecture Past and Present	4
ARTS 3TD	Public Places, Private Spaces - American Art	4

Complete one (1) course from the following Art series that was not previously completed for the Art History Certificate of Achievement: 4

ARTS 2A	History of Art (Europe from Prehistory through Early Christianity) (4)
ARTS 2B	History of Art (Europe During Middle Ages/Renaissance) (4)
ARTS 2C	History of Art (Europe from the Baroque Period through Impressionism) (4)
ARTS 2D	History of Art (Europe and the United States/Post-Impressionism) (4)
ARTS 2F	History of Art (Multicultural Arts in the U.S.) (4)
ARTS 2G	Arts of Asia (4)
ARTS 2H	History of Art: Native Arts of Mesoamerica and South America (4)
ARTS 2J	History of Art: Indigenous Arts of the World (4)
ARTS 2K	History of Art: Visual Arts of Islam (4)
ARTS 2L	History of Art: Visual Arts of Africa (4)

Complete four (4) courses from the courses listed below that were not previously selected to complete the requirements for the Art History Certificate of Achievement: 12

ARTS 4B	Intermediate Drawing (3)
ARTS 8	Two-Dimensional Design (3)
ARTS 10A	Three-Dimensional Design (3)
ARTS 12	Design and Color (3)
ARTS 15A	Introduction to Acrylic Painting (3)
ARTS 15B	Intermediate Acrylic Painting (3)
ARTS 16A	Oil Painting I (3)
ARTS 16B	Oil Painting II (3)
ARTS 18A	Ceramics (3)
ARTS 53A	Introduction to Visual Technology (3)
ARTS 56	Computer Graphic Design/ Electronic Publishing (3)
	Total Units Required 50

^Ø This certificate was submitted for state approval.
Please check with the department for status.

Art History

A.A. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major	Complete the course requirements for the Certificate of Achievement and the Certificate of Achievement-Advanced	50 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90

Museum Studies

Certificate of Achievement^Ø

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

ARTS 70	Viewing Bay Area Art Museums and Galleries	1
ARTS 71	Gallery Exhibition Design	3
ARTS 72	Internship in Art	1
ARTS 1A	Introduction to the Visual Arts	4
ARTS 4A	Beginning Drawing	3
ARTS 8	Two-Dimensional Design	3
ARTS 10A	Three-Dimensional Design	3
	Total Units Required	18

Ceramics

Certificate of Achievement^Ø

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

ARTS 4A	Beginning Drawing	3
ARTS 8	Two-Dimensional Design	3
ARTS 10A	Three-Dimensional Design	3
ARTS 18A	Ceramics	3
ARTS 18B	Ceramics (Wheel Throwing)	3
ARTS 18C	Ceramics (Intermediate Wheel Throwing)	3
ARTS 18D	Ceramics (Hand Building)	3
ARTS 18E	Ceramics (Advanced Wheel Throwing)	3

Complete a minimum of two (2) units from:

ARTS 20 series	ARTS 20, 20X, 20Y, 20Z	2
	Ceramics Lab (1/2-3)	
	Total Units Required	26

Ceramics

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the Certificate of Achievement course requirements.

3. Complete the following:

Complete a minimum of 21 units from the following:

ARTS 19G	Ceramic Glaze Calculation (3)	21
ARTS 19H	Raku (Ceramics) (3)	
ARTS 19I	Ceramic Sculpture (3)	
ARTS 19J	Ceramic Techniques (3)	
ARTS 19K	Ceramic Decoration (3)	
ARTS 19M	Low Fire Ceramics (3)	
ARTS 19N	Porcelain Ceramics (3)	
ARTS 50	Primitive Firing of Ceramics (3)	
ARTS 51	Ceramics Kiln Construction (3)	

Complete a minimum of three (3) units from:

ARTS 77 series	ARTS 77, 77X, 77Y	3
	Special Projects in Art (1-3)	
	Total Units Required	50

Ceramics

A.A. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major	Complete the course requirements for the Certificate of Achievement and the Certificate of Achievement-Advanced	50 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90

Painting

Certificate of Achievement^Ø

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

Complete one (1) course from:	4
ARTS 2D	History of Art (Post-Impressionism/ Present) (4)
ARTS 3TE	Today's Working Artist (4)

Complete the following:

ARTS 4A	Beginning Drawing	3
ARTS 4B	Intermediate Drawing	3
ARTS 12	Design and Color	3

Complete one (1) course from the following:

ARTS 4D	Representational Drawing (3)	3
ARTS 8	Two-Dimensional Design (3)	
ARTS 10A	Three-Dimensional Design (3)	
ARTS 53A	Introduction to Visual Technology (3)	

Complete one (1) of the following sequences:

ARTS 15A	Acrylic Painting I (3)	9
ARTS 15B	Acrylic Painting II (3)	
ARTS 15C	Acrylic Painting III (3)	
or		
ARTS 16A	Oil Painting I (3)	
ARTS 16B	Oil Painting II (3)	
ARTS 16C	Oil Painting III (3)	
	Total Units Required	25

Painting

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the Certificate of Achievement course requirements.

3. Complete the following:

ARTS 4C	Life Drawing	3
ARTS 53B	Introduction to Visual Technology	3

Complete the sequence from the list below that was not previously selected for the Painting Certificate of Achievement:

ARTS 15A	Acrylic Painting I (3)	9
ARTS 15B	Acrylic Painting II (3)	
ARTS 15C	Acrylic Painting III (3)	

or

ARTS 16A	Oil Painting I (3)	
ARTS 16B	Oil Painting II (3)	
ARTS 16C	Oil Painting III (3)	

Complete a minimum of three (3) units from:

ARTS 77 series	ARTS 77, 77X, 77Y	3
	Special Projects in Art (1-3)	
	Total Units Required	43

^Ø This certificate was submitted for state approval.
Please check with the department for status.

Painting

A.A. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major	Complete the course requirements for the Certificate of Achievement and the Certificate of Achievement-Advanced	43 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
Total Units Required		90

Sculpture

Certificate of Achievement^Ø

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Complete one (1) course from: 4

ARTS 2D	History of Art (Post-Impressionism/ Present) (4)	
ARTS 3TE	Today's Working Artist (4)	

Complete the following:

ARTS 4A	Beginning Drawing	3
ARTS 4B	Intermediate Drawing	3
ARTS 8	Two-Dimensional Design	3
ARTS 10A	Three-Dimensional Design	3
ARTS 37A	Sculpture	3
ARTS 37B	Intermediate Sculpture	3
Total Units Required		22

Sculpture

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
 2. Complete the Certificate of Achievement course requirements. 22
 3. Complete the following:
- | | | |
|----------------------|---------------------------------------|----|
| ARTS 10B | Intermediate Three-Dimensional Design | 3 |
| ARTS 37C | Advanced Sculpture | 3 |
| ARTS 58A | Furniture Design | 3 |
| ARTS 58B | Intermediate Furniture Design | 3 |
| ARTS 58C | Advanced Furniture Design | 3 |
| Total Units Required | | 37 |

Sculpture

A.A. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major	Complete the course requirements for the Certificate of Achievement and the Certificate of Achievement-Advanced	37 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
Total Units Required		90 units

Automotive Technician

An evening, in-service program for practicing apprentices and technicians

Machining and Engine Repair

Automotive Machining and Engine Repair Technology

Certificate of Achievement^Ø

1. Meet the requirements for this certificate level as specified on page 52.
 2. Complete the following:
- | | | |
|----------------------|--|----|
| AUTO 64 | Automotive Machining and Engine Repair | 9 |
| AUTO 64HP | High Performance Engine Preparation | 9 |
| Total Units Required | | 18 |

Automotive Machining and Engine Repair Technology

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
 2. Complete the following:
- | | | |
|----------------------|--|-------|
| AUTO 53A | Automotive Mechanisms | 3 |
| AUTO 60 | Automotive Electrical Systems | 9 |
| AUTO 60A | Electrical Schematic Diagnosis | 4 1/2 |
| AUTO 60B | Automotive Electronics | 4 1/2 |
| AUTO 64 | Automotive Machining and Engine Repair | 9 |
| AUTO 64HP | High Performance Engine Preparation | 9 |
| AUTO 60C | Automotive Ignition, Fuel, and Emissions Systems | 9 |
| Total Units Required | | 48 |

Automotive Machining and Engine Repair Technology

A.S. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major	Complete the course requirements for the Certificate of Achievement-Advanced	48 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
Total Units Required		90 units

Engine Performance

Basic Engine Performance Technology

Certificate of Achievement^Ø

1. Meet the requirements for this certificate level as specified on page 52.
 2. Complete the following:
- | | | |
|----------------------|--------------------------------|-------|
| AUTO 53A | Automotive Mechanisms | 3 |
| AUTO 60 | Automotive Electrical Systems | 9 |
| AUTO 60A | Electrical Schematic Diagnosis | 4 1/2 |
| AUTO 60B | Automotive Electronics | 4 1/2 |
| Total Units Required | | 21 |

Intermediate Engine Performance Technology

Certificate of Achievement^Ø

1. Meet the requirements for this certificate level as specified on page 52.
 2. Complete the following:
- | | | |
|----------------------|--|-------|
| AUTO 60C | Automotive Ignition, Fuel, and Emissions Systems | 9 |
| AUTO 60D | Ignition Analysis and Oscilloscope Diagnosis | 4 1/2 |
| AUTO 60E | Automotive Fuel Injection | 4 1/2 |
| Total Units Required | | 18 |

^Ø This certificate was submitted for state approval.
Please check with the department for status.

Advanced Engine Performance Technology

Certificate of Achievement^Ø

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

AUTO 60F	No-Start Diagnosis	4 1/2
AUTO 60G	Advanced Automotive Scan Tool Diagnosis	4 1/2
AUTO 60H	Advanced Driveability and Onboard Diagnosis	4 1/2
AUTO 60J	Advanced Lab Scope and Waveform Diagnosis	4 1/2
Total Units Required		18

Advanced Engine Performance Technology

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

AUTO 53A	Automotive Mechanisms	3
AUTO 60	Automotive Electrical Systems	9
AUTO 60A	Electrical Schematic Diagnosis	4 1/2
AUTO 60B	Automotive Electronics	4 1/2
AUTO 60C	Automotive Ignition, Fuel, and Emissions Systems	9
AUTO 60D	Ignition Analysis and Oscilloscope Diagnosis	4 1/2
AUTO 60E	Automotive Fuel Injection	4 1/2
AUTO 60F	No-Start Diagnosis	4 1/2
AUTO 60G	Advanced Automotive Scan Tool Diagnosis	4 1/2
AUTO 60H	Advanced Driveability and Onboard Diagnosis	4 1/2
AUTO 60J	Advanced Lab Scope and Waveform Diagnosis	4 1/2
Total Units Required		57

Advanced Engine Performance Technology

A.S. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

- | | | |
|----------------------|--|----------|
| Major | Complete the course requirements for the Certificate of Achievement-Advanced | 57 units |
| GE | General Education (31-42 units) | |
| Electives | Elective courses required when major units plus GE units total is less than 90 | |
| Total Units Required | | 90 units |

Automotive Chassis

Automotive Chassis Technology

Certificate of Achievement^Ø

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

AUTO 61A	Automotive Brake Systems	4 1/2
AUTO 61B	Electronically Controlled Brake Systems	4 1/2
AUTO 62A	Steering, Suspension and Alignment	9
Total Units Required		18

Automotive Chassis Technology

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

AUTO 53A	Automotive Mechanisms	3
AUTO 60	Automotive Electrical Systems	9
AUTO 60A	Electrical Schematic Diagnosis	4 1/2
AUTO 60B	Automotive Electronics	4 1/2
AUTO 61A	Automotive Brake Systems	4 1/2
AUTO 61B	Electronically Controlled Brake Systems	4 1/2
AUTO 62A	Steering, Suspension and Alignment	9
AUTO 62B	Advanced Wheel Alignment	9
Total Units Required		48

Automotive Chassis Technology

A.S. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

- | | | |
|----------------------|--|----------|
| Major | Complete the course requirements for the Certificate of Achievement-Advanced | 48 units |
| GE | General Education (31-42 units) | |
| Electives | Elective courses required when major units plus GE units total is less than 90 | |
| Total Units Required | | 90 units |

Automotive Powertrain

Automotive Powertrain Technology

Certificate of Achievement^Ø

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

AUTO 63	Automotive Transmissions and Transaxles	9
AUTO 63A	Automotive Drive Train	4 1/2
AUTO 63D	Transmission Diagnostic and Repair Techniques	4 1/2
Total Units Required		18

Automotive Powertrain Technology

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

AUTO 53A	Automotive Mechanisms	3
AUTO 60	Automotive Electrical Systems	9
AUTO 60A	Electrical Schematic Diagnosis	4 1/2
AUTO 60B	Automotive Electronics	4 1/2
AUTO 63	Automotive Transmissions and Transaxles	9
AUTO 63A	Automotive Drive Train	4 1/2
AUTO 63D	Transmission Diagnostic and Repair Techniques	4 1/2
Total Units Required		39

Automotive Powertrain Technology

A.S. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

- | | | |
|----------------------|--|----------|
| Major | Complete the course requirements for the Certificate of Achievement-Advanced | 39 units |
| GE | General Education (31-42 units) | |
| Electives | Elective courses required when major units plus GE units total is less than 90 | |
| Total Units Required | | 90 units |

^Ø This certificate was submitted for state approval.
Please check with the department for status.

Additional Certificates

Smog Technician

Certificate of Achievement^Ø

1. Meet the requirements for this certificate level as specified on page 52.
 2. Complete the following:
- | | | |
|----------------------|--|--------|
| AUTO 65P | Clean Air Car Course | 7 |
| AUTO 65W | Advanced Clean Air Car Course | 2 1/2 |
| AUTO 60C | Automotive Ignition, Fuel, and Emissions Systems | 9 |
| Total Units Required | | 18 1/2 |

Advanced Automotive Technology

Certificate of Achievement^Ø

1. Meet the requirements for this certificate level as specified on page 52.
 2. Complete the following:
- | | | |
|----------------------|-------------------------------|--------|
| AUTO 60 | Automotive Electrical Systems | 9 |
| AUTO 60K | Advanced Body Electrical | 4 1/2 |
| AUTO 60M | Hybrid Electric Vehicles | 4 1/2 |
| AUTO 66 | Automotive Air Conditioning | 4 1/2 |
| Total Units Required | | 22 1/2 |

Automotive Technology

An entry-level program for full-time day students

Certificate of Achievement-Advanced (Options A-C)

Complete the required courses for your option choice and meet the corresponding certificate requirements as specified on page 52.

Option A: Automotive Machining and Engine Repair

AUTO 53A	Automotive Mechanisms	3
AUTO 53B	Automotive Electrical and Mechanical Systems	2
AUTO 57A	Career Research and Employment in the Automotive Industry	2
AUTO 58	Hazardous Materials	1/2
AUTO 94A	Principles of Four Stroke Cycle Gas and Diesel Engines	5
AUTO 94B	Automotive Machining and Engine Service	5
AUTO 94C	Automotive Machining and Engine Service	5
AUTO 94D	Automotive Machining and Engine Service	5
AUTO 94E	Automotive Machining and Engine Service	5
AUTO 94F	Automotive Machining and Engine Service	5
Total Units Required		37 1/2

Option B: Automotive Engine Performance

AUTO 53A	Automotive Mechanisms	3
AUTO 53B	Automotive Electrical and Mechanical Systems	2
AUTO 57A	Career Research and Employment in the Automotive Industry	2
AUTO 58	Hazardous Materials	1/2
AUTO 99A	Automotive Electricity, Battery, and Cranking Systems	6 1/4
AUTO 99B	Automotive Charging, Ignition, and Accessory Systems	6 1/4
AUTO 99C	Introduction to Engine Performance Systems	6 1/4
AUTO 99D	Intermediate Engine Performance Systems	6 1/4
AUTO 99E	Basic Engine Performance Diagnostic Procedures	6 1/4
AUTO 99F	Intermediate Engine Performance Diagnostic Procedures	6 1/4
Total Units Required		45

Option C: Automotive Chassis and Powertrain

AUTO 53A	Automotive Mechanisms	3
AUTO 53B	Automotive Electrical and Mechanical Systems	2
AUTO 57A	Career Research and Employment in the Automotive Industry	2
AUTO 58	Hazardous Materials	1/2
AUTO 91A	Automotive Brake Systems	5
AUTO 92A	Automotive Steering and Suspension	5
AUTO 92B	Automotive Alignment	5
AUTO 93A	Automotive Final Drivetrain	5
AUTO 93B	Standard Transaxles	1 1/2
AUTO 93C	Automatic Transmissions	5
AUTO 93D	Automatic Transaxles	1 1/2
AUTO 93E	Diagnostic Techniques	1
AUTO 93F	Automotive Transmission Service	5
Total Units Required		41 1/2

A.S. Degree (Options A-C)

Complete the prerequisite below and the Certificate of Achievement-Advanced option requirements of your choice for the major, and meet the A.A./A.S. degree requirements as specified on page 52.

Prerequisite

Approved Automotive Technology Course Sequence Contract. See department for an application.

Recommended: One year of automotive educational experience (high school, ROP or De Anza's AUTO 50 series).

Major	Requirements: one (1) Automotive Technology Certificate of Achievement-Advanced (Options A-C)
GE	General Education (31-42 units)
Electives	Elective courses required when major units plus GE units total is less than 90
Total Units Required 90 units	

Biological Sciences

A.S. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.
 2. Complete the following:
- | | | |
|---------|--|---|
| BIOL 6A | Form and Function in the Biological World | 6 |
| BIOL 6B | Cell and Molecular Biology | 6 |
| BIOL 6C | Evolution, Systematics, and Ecology | 6 |
| CHEM 1A | General Chemistry | 5 |
| CHEM 1B | General Chemistry | 5 |
| CHEM 1C | General Chemistry and Qualitative Analysis | 5 |

Complete a minimum of 15 units from one (1) of these two (2) options:

15-18

Option 1: Organic Chemistry

CHEM 12A	Organic Chemistry (5)
CHEM 12B	Organic Chemistry (5)
CHEM 12C	Organic Chemistry (5)

Option 2: Physics

PHYS 2A	General Introductory Physics (5)
PHYS 2B	General Introductory Physics (5)
PHYS 2C	General Introductory Physics (5)
or	
PHYS 4A	Physics for Scientists and Engineers (Mechanics) (6)
PHYS 4B	Physics for Scientists and Engineers (Electricity and Magnetism) (6)
PHYS 4C	Physics for Scientists and Engineers (Fluids, Waves, Optics, and Thermodynamics) (6)

^Ø This certificate was submitted for state approval.
Please check with the department for status.

Major	Biological Sciences	48-51 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

Recommended elective courses:

BIOL 13, BIOL 15, BIOL 26, BIOL 40A-C, ES 1, ESCI 19, MATH 1A-D, MATH 10

Students may complete either the Organic Chemistry or the Physics option in order to receive the A.S. Degree in Biological Sciences from De Anza College.

For students planning to transfer to a four-year institution, it may be beneficial to complete both the Organic Chemistry option and the Physics option. Course sequences in chemistry and physics are required in most B.S. Biology programs. For your specific transfer situation, please visit the Counseling Center and consult with the four-year institution.

Business Administration

Business Administration

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

ACCT 1A	Financial Accounting I	5
BUS 10	Introduction to Business	5
BUS 18	Business Law I	5

Complete two (2) courses from the following: 8-10

BUS 21	Business and Society (5)
BUS 54	Business Mathematics (5)
BUS 55	Introduction to Entrepreneurship (5)
BUS 56	Human Relations in Business (5)
BUS 57	Human Resource Management (4)
BUS 58	The Business Plan (4)
BUS 60	International Business Management (5)
BUS 65	Leadership (5)
BUS 70	Principles of E-Business (5)
BUS 87	Introduction to Selling (4)
BUS 89	Advertising (5)
BUS 90	Principles of Marketing (5)
BUS 96A	Principles of Management (5)
CIS 3	Business Information Systems (4 1/2)

Total Units Required 23-25

Business Administration

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.

2. Complete the following:

ACCT 1A	Financial Accounting I	5
ACCT 1B	Financial Accounting II	5
ACCT 1C	Managerial Accounting	5
BUS 10	Introduction to Business	5
BUS 18	Business Law I	5
BUS 56	Human Relations in Business	5
BUS 60	International Business Management	5
BUS 90	Principles of Marketing	5
BUS 96A	Principles of Management	5
CIS 3	Business Information Systems	4 1/2

Major	Business Administration	49 1/2 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

Recommended

Cooperative Education

BUS 21, 54, 55, 57, 58, 59, 65, 69, 70, 80, 85, 87, 89, 93

ECON 1, 2

EWRT 1B or 2 or ESL 6

MATH 10

Entrepreneurship

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

BUS 55	Introduction to Entrepreneurship	5
BUS 58	The Business Plan	4

Complete three (3) courses from the following: 15

BUS 59	Promoting Your Small Business (5)	
BUS 60	International Business Management (5)	
BUS 65	Leadership (5)	
BUS 70	Principles of E-Business (5)	
BUS 90	Principles of Marketing (5)	
	Total Units Required	24

Business Software Applications

Skills Certificate

Complete the following and meet the corresponding certificate requirements as specified on page 52.

Contact the department to apply for this Skills Certificate.

Complete one (1) course from: 1-1 1/2

CAOS 70AA* Elementary Keyboarding I (1 1/2)

CAOS 173* Keyboarding Skill Development (1)

Complete one (1) course from: 1/2-2

CAOS 90GA* Computer Literacy I (PC) (2)

CAOS 100G* Orientation to the PC (1/2)

* Contact the CAOS department for procedures to substitute this course based on previous knowledge or experience.

Complete one (1) course from: 1

CAOS 102L Microsoft Windows I (Windows XP) (1)

CAOS 102M Microsoft Windows I (Windows Vista) (1)

Complete one (1) course from: 2

CAOS 91AL Word Processing I (Word XP/2002) (2)

CAOS 91AM Word Processing I (Word 2007) (2)

Complete one (1) course from: 2

CAOS 93AL Spreadsheets I (Excel XP/2002) (2)

CAOS 93AM Spreadsheets I (Excel 2007) (2)

Complete one (1) course from: 2

CAOS 110L Database I (Access XP/2002) (2)

CAOS 110M Database I (Access 2007) (2)

Total Units Required 8 1/2-10 1/2

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the Skills Certificate course requirements. 8 1/2-10 1/2
3. Complete the following:

Complete one (1) course from: 2
 CAOS 91BL Word Processing II (Word XP/2002) (2)
 CAOS 91BM Word Processing II (Word 2007) (2)

Complete the following:
 CAOS 105 Introduction to HTML 1
 CAOS 108 Personal Computer Security Basics 4
or CIS 108
 CAOS 170F Windows 7 Administration 4 1/2

Complete a minimum of five (5) units from the following which do not duplicate courses previously chosen: 5

- ACCT 1A Financial Accounting I (5)
 BUS 85 Business Communication (3)
 CAOS 90GA Computer Literacy I (PC) (2)
 CAOS 94 Introduction to Internet and World Wide Web (1)
or CIS 94
 CAOS 106 Adobe Acrobat (1)
 CAOS 112A Digital Imaging Software (Photoshop) (4)
 CAOS 112I Digital Imaging Software I (Photoshop) (2)
 CAOS 112Q Digital Imaging Software II (Photoshop) (2)
 CAOS 113A Web Authoring Software (Dreamweaver) (4)
 CAOS 113I Web Authoring Software I (Dreamweaver) (2)
 CAOS 113Q Web Authoring Software II (Dreamweaver) (2)
 CAOS 114A Web Graphics/Animation Software (Flash) (3)
 CAOS 115A E-Commerce Software (Dreamweaver/UltraDev) (4)
 CAOS 130M Introduction to Business Graphics (PowerPoint 2007) (2)
or CAOS 130L
 CIS 15AG Introduction to Computer Programming Using C (4 1/2)
 CIS 89A World Wide Web Page Development (3)
 CAOS 198 series CAOS 198, 198W, 198X, 198Y Topics in Computer Applications and Office Systems (1/2-2)
Up to three (3) units from this series can apply.
 Total Units Required 25-27

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the Skills Certificate course requirements. 8 1/2-10 1/2
3. Complete the following:

Complete one (1) course from: 2
 CAOS 91BL Word Processing II (Word XP/2002) (2)
 CAOS 91BM Word Processing II (Word 2007) (2)

Complete one (1) course from: 2
 CAOS 111L Database II (Access XP/2002) (2)
 CAOS 111M Database II (Access 2007) (2)

Complete one (1) course from: 2
 CAOS 130L Introduction to Business Graphics (PowerPoint XP/2002) (2)
 CAOS 130M Introduction to Business Graphics (PowerPoint 2007) (2)

Complete the following:

- BUS 85 Business Communication 3
 CAOS 94 Introduction to Internet and World Wide Web 1
or CIS 94
 CAOS 105 Introduction to HTML 1
 CAOS 106 Adobe Acrobat 1
 CAOS 108 Personal Computer Security Basics 4
or CIS 108

CAOS 170F Windows 7 Administration 4 1/2
Complete one (1) course from: 4 1/2

- CIS 14A Visual Basic.NET Programming I (4 1/2)
 CIS 15AG Introduction to Computer Programming Using C (4 1/2)

Complete a minimum of nine (9) units from the following which do not duplicate courses previously chosen: 9

- ACCT 1A Financial Accounting I (5)
 ACCT 86 Computer Accounting Systems (4)
 CAOS 91AM Word Processing I (Word 2007) (2)
or CAOS 91AL
 CAOS 91BM Word Processing II (Word 2007) (2)
or CAOS 91BL
 CAOS 110M Database I (Access 2007) (2)
or CAOS 110L
 CAOS 112A Digital Imaging Software (Photoshop) (4)
 CAOS 112I Digital Imaging Software I (Photoshop) (2)
 CAOS 112Q Digital Imaging Software II (Photoshop) (2)
 CAOS 113A Web Authoring Software (Dreamweaver) (4)
 CAOS 113I Web Authoring Software I (Dreamweaver) (2)
 CAOS 113Q Web Authoring Software II (Dreamweaver) (2)
 CAOS 114A Web Graphics/Animation Software (Flash) (3)
 CAOS 115A E-Commerce Software (Dreamweaver/UltraDev) (4)
 CIS 3 Business Information Systems (4 1/2)
 CIS 18A Introduction to UNIX/LINUX (4 1/2)
 CIS 50 Introduction to Computers, Data Processing, and Applications (3)
or CIS 89A-World Wide Web Page Development (3)
 CAOS 198 series CAOS 198, 198W, 198X, 198Y Topics in Computer Applications and Office Systems (1/2-2)
Up to three (3) units from this series can apply.
 Total Units Required 42 1/2-44 1/2

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.
2. Complete the Skills Certificate course requirements. 8 1/2-10 1/2
3. Complete the following:

Complete one (1) course from: 2
 CAOS 91BL Word Processing II (Word XP/2002) (2)
 CAOS 91BM Word Processing II (Word 2007) (2)

Complete one (1) course from: 2
 CAOS 111L Database II (Access XP/2002) (2)
 CAOS 111M Database II (Access 2007) (2)

Complete one (1) course from: 2
 CAOS 130L Introduction to Business Graphics (PowerPoint XP/2002) (2)
 CAOS 130M Introduction to Business Graphics (PowerPoint 2007) (2)

Complete one (1) course from: 3-5
 BUS 56 Human Relations in Business (5)
 BUS 85 Business Communication (3)

Complete the following:

CAOS 94	Introduction to Internet and World Wide Web or CIS 94	1
CAOS 106	Adobe Acrobat	1
CAOS 108	Personal Computer Security Basics or CIS 108	4
CIS 170F	Windows 7 Administration	4 1/2
Complete one (1) course from:		4 1/2
CIS 14A	Visual Basic.NET Programming I (4 1/2)	
CIS 15AG	Introduction to Computer Programming Using C (4 1/2)	
Complete a minimum of 13 units from the following which do not duplicate courses previously chosen:		13
ACCT 1A	Financial Accounting I (5)	
ACCT 1B	Financial Accounting II (5)	
ACCT 86	Computer Accounting Systems (5)	
BUS 10	Introduction to Business (5)	
BUS 54	Business Mathematics (5)	
CAOS 84A	Business English I (2)	
CAOS 84B	Business English II (1)	
CAOS 91AM	Word Processing I (Word XP/2002) (2) or CAOS 91AL	
CAOS 91BM	Word Processing II (Word XP/2002) (2) or CAOS 91BL	
CAOS 105	Introduction to HTML (1)	
CAOS 112A	Digital Imaging Software (Photoshop) (4)	
CAOS 112I	Digital Imaging Software I (Photoshop) (2)	
CAOS 112Q	Digital Imaging Software II (Photoshop) (2)	
CAOS 113A	Web Authoring Software (Dreamweaver) (4)	
CAOS 113I	Web Authoring Software I (Dreamweaver) (2)	
CAOS 113Q	Web Authoring Software II (Dreamweaver) (2)	
CAOS 114A	Web Graphics/Animation Software (Flash) (3)	
CAOS 115A	E-Commerce Software (Dreamweaver/UltraDev) (4)	
CAOS 198 series	CAOS 198, 198W, 198X, 198Y Topics in Computer Applications and Office Systems (1/2-2) Up to three (3) units from this series can apply.	
CIS 50	Introduction to Computers, Data Processing, and Applications (3) or CIS 3 Business Information Systems (4 1/2)	
CIS 18A	Introduction to UNIX/LINUX (4 1/2)	
MATH 10	Elementary Statistics and Probability (5)	
Major	Business Software Applications	45 1/2-49 1/2 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
Total Units Required		90 units

Child Development

Child Development

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Current Infant and Child CPR/First Aid Certificate required.

C D 10G	Child Development (The Early Years)	4
C D 12	Child, Family and Community Interrelationships	4
C D 50	Principles and Practices of Teaching Young Children	3

Complete a minimum of nine (9) units from the following: 9

C D 10H	Child Development (Middle Childhood and Adolescence) (4)	
C D 52	Observation and Assessment/Young Child (3)	
C D 53	Creative Arts for the Young Child (3)	
C D 54	Curriculum for Early Childhood Programs (3)	
C D 55	Literacy Development and Activities for the Young Child (3)	
C D 56	Understanding and Working with English Language Learners (3)	
C D 58	Infant/Toddler Development (4)	
C D 61	Music and Movement (Developmental Foundations) (3)	
C D 63	Math and Science Activities/Young Child (3)	
C D 64	Health, Safety and Nutrition for the Young Child (3)	
C D 65	Programs for School-Age Child Care (3)	
C D 71	Constructive Guidance and Discipline (3)	
C D 72	Partnerships with Families in Early Childhood Education (3)	

Practicum Requirement (3-5 units) from the following: 3-5

C D 51	Student Teaching Practicum (5)	
C D 57	Self Assessment for Teachers of Young Children (3)	
Total Units Required		23-25

The Certificate of Achievement fulfills requirements to qualify as a Teacher in a center licensed by the Department of Social Services.

Students who wish to qualify as a Director must also take C D 59G Supervision and Administration of Child Development Programs (Management Systems) and C D 59H Supervision and Administration of Child Development Programs (Leadership Skills).



Child Development

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Current Infant and Child CPR/First Aid Certificate required.

C D 10G	Child Development (The Early Years)	4
C D 10H	Child Development (Middle Childhood and Adolescence)	4
C D 12	Child, Family and Community Interrelationships	4
C D 50	Principles and Practices of Teaching Young Children	3
C D 52	Observation of the Young Child	3
C D 54	Curriculum for Early Childhood Programs	3
C D 55	Literacy Development and Activities for the Young Child	3
C D 64	Health, Safety and Nutrition for the Young Child	3
C D 68	Teaching in a Diverse Society	3
<i>Complete a minimum of three (3) units from the following:</i>		3
C D 53	Creative Arts for the Young Child (3)	
C D 56	Understanding and Working with English Language Learners (3)	
C D 57	Self Assessment for Teachers of Young Children (3)	
C D 58	Infant/Toddler Development (4)	
C D 59G	Supervision and Administration of Child Development Programs (Management Systems) (4)	
C D 59H	Supervision and Administration of Child Development Programs (Leadership Skills) (4)	
C D 60	Exceptional Children (3)	
C D 61	Music and Movement (Developmental Foundations) (3)	
C D 63	Math and Science Activities for the Young Child (3)	
C D 65	Programs for School-Age Child Care (3)	
C D 67	Supervision and Administration of Child Development Programs (Adult Supervision) (3)	
C D 71	Constructive Guidance and Discipline (3)	
EDUC 1	Introduction to Elementary Education in a Diverse Society (3)	

Practicum Requirement (5 units)

C D 51	Student Teaching Practicum	5
<i>May be repeated up to three (3) times.</i>		
Total Units Required		38

The Certificate of Achievement-Advanced is designed to meet the Child Development course requirements for a Child Development Teacher Permit. The Permit also requires 24 quarter units (equivalent of 16 semester units) of General Education courses.

Child Development

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.
2. Complete the following:

Current Infant and Child CPR/First Aid Certificate required.

C D 10G	Child Development (The Early Years)	4
C D 10H	Child Development (Middle Childhood and Adolescence)	4
C D 12	Child, Family and Community Interrelationships	4
C D 50	Principles and Practices of Teaching Young Children	3
C D 52	Observation of the Young Child	3
C D 54	Curriculum for Early Childhood Programs	3
C D 55	Literacy Development and Activities for the Young Child	3
C D 56	Understanding and Working with English Language Learners	3
C D 60	Exceptional Children	3
C D 64	Health, Safety and Nutrition for the Young Child	3
C D 67	Supervision and Administration of Child Development Programs (Adult Supervision)	3
C D 68	Teaching in a Diverse Society	3
<i>Complete a minimum of three (3) units from the following:</i>		3
C D 53	Creative Arts for the Young Child (3)	
C D 57	Self Assessment for Teachers of Young Children (3)	
C D 58	Infant/Toddler Development (4)	
C D 59G	Supervision and Administration of Child Development Programs (Management Systems) (4)	
C D 59H	Supervision and Administration of Child Development Programs (Leadership Skills) (4)	
C D 61	Music and Movement (Developmental Foundations) (3)	
C D 63	Math and Science Activities for the Young Child (3)	
C D 65	Programs for School-Age Child Care (3)	
C D 71	Constructive Guidance and Discipline (3)	
C D 72	Partnerships with Families in Early Childhood Education (3)	
C D 73	Early Childhood Mental Health (3)	
C D 74	Early Childhood Mental Health Seminar and Fieldwork (3)	
C D 75	Social Emotional Development in Early Childhood (3)	
EDUC 1	Introduction to Elementary Education in a Diverse Society (3)	

Practicum Requirement (10 units)

C D 51	Student Teaching Practicum (5)	10
<i>May be repeated up to three (3) times.</i>		
Major	Child Development	52 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
Total Units Required		90 units

Early Childhood Mental Health

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

C D 10G	Child Development (The Early Years)	4
C D 58	Infant/Toddler Development	4
C D 72	Partnerships with Families in Early Childhood Education	3
C D 73	Early Childhood Mental Health	3
C D 74	Early Childhood Mental Health Seminar and Fieldwork	3
C D 75	Social Emotional Development in Young Children	3
	Total Units Required	20

Early Intervention/Special Education Assistant

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Current Infant and Child CPR/First Aid Certificate required.

- | | | |
|---------|---|---|
| C D 10G | Child Development (The Early Years) | 4 |
| C D 12 | Child, Family and Community Interrelationships | 4 |
| C D 50 | Principles and Practices of Teaching Young Children | 3 |
| C D 52 | Observation of the Young Child | 3 |
| C D 55 | Literacy Development and Activities for the Young Child | 3 |
| C D 58 | Infant/Toddler Development | 4 |
| C D 60 | Exceptional Children | 3 |
| C D 64 | Health, Safety and Nutrition for the Young Child | 3 |
| C D 73 | Early Childhood Mental Health | 3 |
| C D 90 | Facilitating Inclusion in Early Childhood Programs: Intervention Strategies | 3 |

Complete a minimum of three (3) units from the following:

- | | | |
|---------|--|---|
| C D 10H | Child Development (Middle Childhood and Adolescence) (4) | 3 |
| C D 53 | Creative Arts for the Young Child (3) | |
| C D 56 | Understanding and Working with English Language Learners (3) | |
| C D 57 | Self Assessment for Teachers of Young Children (3) | |
| C D 61 | Music and Movement (Developmental Foundations) (3) | |
| C D 63 | Math and Science Activities for the Young Child (3) | |
| C D 68 | Teaching in a Diverse Society (3) | |
| C D 71 | Constructive Guidance and Discipline (3) | |
| C D 75 | Social Emotional Development in Early Childhood (3) | |

Practicum Requirement (5 units)

- | | | |
|--------|---|---|
| C D 51 | Student Teaching Practicum | 5 |
| | <i>May be repeated up to three (3) times.</i> | |

The practicum experience must be completed in an Early Intervention/Special Education Environment with an inclusion component or an Inclusion Environment.

Total Units Required 41

The Certificate of Achievement-Advanced is designed to meet the Early Intervention Assistant II requirements. It is the equivalent of the Teacher level permit on the California CTC Child Development Matrix. The Teacher level permit also requires 24 quarter units (equivalent of 16 semester units) of General Education courses.

Computer Aided Design (CAD)

AutoDesk

Skills Certificate

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Complete a minimum of 12 units from the following: 12

- | | | |
|---------|--------------------------------------|----|
| CDI 80D | AutoCAD (Beginning) (4) | |
| | <i>or other CDI 80 series course</i> | |
| CDI 81D | AutoCAD (Intermediate) (4) | |
| | <i>or other CDI 81 series course</i> | |
| CDI 82D | AutoCAD Civil 3D (4) | |
| | <i>or other CDI 82 series course</i> | |
| CDI 83D | AutoDesk Revit Architecture (4) | |
| | <i>or other CDI 83 series course</i> | |
| CDI 85D | AutoDesk Inventor (4) | |
| | <i>or other CDI 85 series course</i> | |
| | Total Units Required | 12 |

SolidWorks

Skills Certificate

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Complete a minimum of 12 units from the following: 12

- | | | |
|---------|--------------------------------------|----|
| CDI 60E | SolidWorks (Beginning) (4) | |
| | <i>or other CDI 60 series course</i> | |
| CDI 61E | SolidWorks (Intermediate) (4) | |
| | <i>or other CDI 61 series course</i> | |
| CDI 62E | SolidWorks (Advanced) (4) | |
| | <i>or other CDI 62 series course</i> | |
| CDI 63E | SolidWorks (SURFACES) (4) | |
| | <i>or other CDI 63 series course</i> | |
| CDI 64E | SolidWorks (PDMWorks) (2) | |
| | <i>or other CDI 64 series course</i> | |
| CDI 67E | SolidWorks (Simulation) (4) | |
| | <i>or other CDI 67 series course</i> | |
| | Total Units Required | 12 |

Pro/ENGINEER

Certificate of Achievement^Ø

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Complete a minimum of 20 units from the following: 20

CDI 70D	Pro/ENGINEER Wildfire (Beginning) (4) or other CDI 70 series course	
CDI 71D	Pro/ENGINEER Wildfire (Intermediate) (4) or other CDI 71 series course	
CDI 72D	Pro/ENGINEER Wildfire (Advanced) (4) or other CDI 72 series course	
CDI 73D	Pro/ENGINEER Wildfire (Pro/SHEETMETAL) (4) or other CDI 73 series course	
CDI 74D	Pro/ENGINEER Wildfire (Pro/SURFACE) (4) or other CDI 74 series course	
CDI 75D	Pro/ENGINEER Wildfire (Pro/MOLD) (4) or other CDI 75 series course	
CDI 76D	Pro/ENGINEER Wildfire (Pro/CABLE) (4) or other CDI 76 series course	
CDI 77D	Pro/ENGINEER Wildfire (Pro/MECHANICA) (4) or other CDI 77 series course	
CDI 78D	Pro/ENGINEER (Windchill ProductPoint) (2) or other CDI 78 series course	
CDI 79D	Pro/ENGINEER Wildfire (Update) (4) or other CDI 79 series course	
Total Units Required		20

Computer Aided Design - Mechanical

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Complete a minimum of eight (8) units from the following: 8

CDI 60E	SolidWorks (Beginning) (4) or other CDI 60 series course	
CDI 61E	SolidWorks (Intermediate) (4) or other CDI 61 series course	
CDI 62E	SolidWorks (Advanced) (4) or other CDI 62 series course	
CDI 63E	SolidWorks (SURFACES) (4) or other CDI 63 series course	
CDI 64E	SolidWorks (PDMWorks) (2) or other CDI 64 series course	
CDI 67E	SolidWorks (Simulation) (4) or other CDI 67 series course	

Complete a minimum of 12 units from the following: 12

CDI 70D	Pro/ENGINEER Wildfire (Beginning) (4) or other CDI 70 series course	
CDI 71D	Pro/ENGINEER Wildfire (Intermediate) (4) or other CDI 71 series course	
CDI 72D	Pro/ENGINEER Wildfire (Advanced) (4) or other CDI 72 series course	
CDI 73D	Pro/ENGINEER Wildfire (Pro/SHEETMETAL) (4) or other CDI 73 series course	
CDI 74D	Pro/ENGINEER Wildfire (Pro/SURFACE) (4) or other CDI 74 series course	
CDI 75D	Pro/ENGINEER Wildfire (Pro/MOLD) (4) or other CDI 75 series course	

CDI 76D	Pro/ENGINEER Wildfire (Pro/CABLE) (4) or other CDI 76 series course	
CDI 77D	Pro/ENGINEER Wildfire (Pro/MECHANICA) (4) or other CDI 77 series course	
CDI 78D	Pro/ENGINEER (Windchill ProductPoint) (2) or other CDI 78 series course	
CDI 79D	Pro/ENGINEER Wildfire (Update) (4) or other CDI 79 series course	
Complete a minimum of eight (8) units from the following: 8		
CDI 80D	AutoCAD (Beginning) (4) or other CDI 80 series course	
CDI 81D	AutoCAD (Intermediate) (4) or other CDI 81 series course	
CDI 82D	AutoCAD Civil 3D (4) or other CDI 82 series course	
CDI 83D	AutoDesk Revit Architecture (4) or other CDI 83 series course	
CDI 85C	AutoDesk Inventor (4) or other CDI 85 series course	
Total Units Required		28

Computer Aided Design - Mechanical

A.S. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.
2. Complete the following:

Complete a minimum of 12 units from the following: 12

CDI 60E	SolidWorks (Beginning) (4) or other CDI 60 series course	
CDI 61E	SolidWorks (Intermediate) (4) or other CDI 61 series course	
CDI 62E	SolidWorks (Advanced) (4) or other CDI 62 series course	
CDI 63E	SolidWorks (SURFACES) (4) or other CDI 63 series course	
CDI 64E	SolidWorks (PDMWorks) (2) or other CDI 64 series course	
CDI 67E	SolidWorks (Simulation) (4) or other CDI 67 series course	

Complete a minimum of 20 units from the following: 20

CDI 70D	Pro/ENGINEER Wildfire (Beginning) (4) or other CDI 70 series course	
CDI 71D	Pro/ENGINEER Wildfire (Intermediate) (4) or other CDI 71 series course	
CDI 72D	Pro/ENGINEER Wildfire (Advanced) (4) or other CDI 72 series course	
CDI 73D	Pro/ENGINEER Wildfire (Pro/SHEETMETAL) (4) or other CDI 73 series course	
CDI 74D	Pro/ENGINEER Wildfire (Pro/SURFACE) (4) or other CDI 74 series course	
CDI 75D	Pro/ENGINEER Wildfire (Pro/MOLD) (4) or other CDI 75 series course	
CDI 76D	Pro/ENGINEER Wildfire (Pro/CABLE) (4) or other CDI 76 series course	
CDI 77D	Pro/ENGINEER Wildfire (Pro/MECHANICA) (4) or other CDI 77 series course	
CDI 78D	Pro/ENGINEER (Windchill ProductPoint) (2) or other CDI 78 series course	
CDI 79D	Pro/ENGINEER Wildfire (Update) (4) or other CDI 79 series course	

^Ø This certificate was submitted for state approval.
Please check with the department for status.

Complete a minimum of 12 units from the following:		12
CDI 80D	AutoCAD (Beginning) (4) or other CDI 80 series course	
CDI 81D	AutoCAD (Intermediate) (4) or other CDI 81 series course	
CDI 82D	AutoCAD Civil 3D (4) or other CDI 82 series course	
CDI 83D	AutoDesk Revit Architecture (4) or other CDI 83 series course	
CDI 85D	AutoDesk Inventor (4) or other CDI 85 series course	

Complete:		
CDI 51	Geometric Dimensioning and Tolerancing	2
Major	Computer Aided Design	46 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
Total Units Required		90 units

Computer Applications and Office Systems

(See the Section Index for Administrative Assistant/Office Technology or Business Software Applications.)

Computer Information Systems

Computer Systems Security

Home/Small Business Computer Security

Skills Certificate

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Prerequisites/Corequisites

Complete one (1) course from: 1/2-2

CAOS 90GA* Computer Literacy I (PC) (2)

CAOS 100G* Orientation to the PC (1/2)

Complete one (1) course from: 1

CAOS 102L Microsoft Windows I (Windows XP) (1)

CAOS 102M Microsoft Windows I (Windows Vista) (1)

Requirements

CIS 108 Personal Computer Security Basics 4
or CAOS 108

CIS 170F Windows 7 Administration 4 1/2

CIS 161 Computer Forensics 4

or CAOS 161

Total Units Required 14-15 1/2

* Based on previous experience or knowledge, student may substitute another CAOS course of equal or greater unit value with departmental approval.

Computer Crime Investigation (Forensics) and Security

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

CAOS 90GA* Computer Literacy I (PC) 2

ADMJ 75 Principles and Procedures of the Justice System 4

CIS 31 Operating System Concepts 5

CIS 170F Windows 7 Administration 4 1/2

CIS 165	Security+ (Network Security Fundamentals) 4 or CAOS 165	
CIS 161	Computer Forensics 4 or CAOS 161	
Total Units Required		23 1/2

* Based on previous experience or knowledge, student may substitute another CAOS course of equal or greater unit value with departmental approval.

Enterprise Security Professional

Certificate of Achievement^o

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Prerequisites/Corequisites

CIS 66* Introduction to Data Communication and Networking 5

CIS 75A* Internet Concepts and TCP/IP Protocols 5

Requirements

CIS 108 Personal Computer Security Basics 4
or CAOS 108

CIS 76 Introduction to Network Security 4

CIS 75C Enterprise Security

Threats Management 4 1/2

CIS 75D Enterprise Security Policy Management 3

Total Units Required 25 1/2

* Based on previous experience or knowledge, student may substitute another CIS course of equal or greater unit value with departmental approval.

Enterprise Security Professional

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Prerequisites/Corequisites

CIS 66* Introduction to Data Communication and Networking 5

CIS 75A* Internet Concepts and TCP/IP Protocols 5

* Based on previous experience or knowledge, student may substitute another CIS course of equal or greater unit value with departmental approval.

Requirements

CIS 75C Enterprise Security

Threats Management 4 1/2

CIS 75D Enterprise Security Policy Management 3

CIS 75E Enterprise Emergency Response Planning 2

CIS 76 Introduction to Network Security 5

CIS 108 Personal Computer Security Basics 4

or CAOS 108

CIS 161 Computer Forensics 4

or CAOS 161

CIS 165 Security+ (Network Security Fundamentals) 4

or CAOS 165

CIS 170F Windows 7 Administration 4 1/2

Total Units Required 41

Enterprise Security Professional

A.A. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major Complete the course requirements for the Enterprise Security Professional Certificate of Achievement-Advanced 41 units

GE General Education (31-42 units)

Electives Elective courses required when major units plus GE units total is less than 90

Total Units Required 90 units

^o This certificate was submitted for state approval.

Please check with the department for status.

Database Design

Database Design for Developers (Oracle)

Certificate of Achievement[◇]

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

CIS 15AG	Introduction to Computer Programming Using C	4 1/2
CIS 15BG	Intermediate Problem Solving in C	4 1/2
CIS 64A	Database Management Systems	4 1/2
CIS 64B	Introduction to SQL	4 1/2
CIS 64C	Introduction to PL/SQL	4 1/2
CIS 64D	Database Tuning	3
Total Units Required		25 1/2

Network Design and Administration

Network Administration

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

Complete one (1) course from:		1/2-2
CAOS 90GA*	Computer Literacy I (PC) (2)	
CAOS 100G*	Orientation to the PC (1/2)	

* Based on previous experience or knowledge, student may substitute another CAOS course of equal or greater unit value with departmental approval.

Complete one (1) course from:		1
CAOS 102L	Microsoft Windows I (Windows XP) (1)	
CAOS 102M	Microsoft Windows I (Windows Vista) (1)	

Complete the following:		
CIS 108	Personal Computer Security Basics or CAOS 108	4
CIS 66	Introduction to Data Communication and Networking	5
CIS 3	Business Information Systems	4 1/2
CIS 170F	Windows 7 Administration	4 1/2
Total Units Required		19 1/2-21

Network Administration

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

CIS 15AG	Introduction to Computer Programming Using C	4 1/2
CIS 15BG	Intermediate Problem Solving in C	4 1/2
CIS 18A	Introduction to UNIX/LINUX	4 1/2
CIS 66	Introduction to Data Communication and Networking	5
CIS 67A	Local Area Networks	4
CIS 67B	Introduction to Wide Area Networking	4
CIS 75A	Internet Concepts and TCP/IP Protocols	5

Complete one (1) course from:		4 1/2
CIS 18B	Advanced UNIX/LINUX (4 1/2)	
CIS 33A	Programming in PERL (4 1/2)	

Complete one (1) course from:		4 1/2-5
CIS 31	Operating System Concepts (5)	
CIS 170F	Windows 7 Administration (4 1/2)	
Total Units Required		40 1/2-41

Recommended Course Sequence

1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
CIS 15AG	CIS 15BG	CIS 18B or 33A	CIS 67B
CIS 18A	CIS 66	CIS 67A	CIS 75A
		(CIS 170F)	(CIS 31)

Network Administration

A.A. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major	Complete the course requirements for the Network Administration Certificate of Achievement-Advanced 40 1/2-41 units
GE	General Education (31-42 units)
Electives	Elective courses required when major units plus GE units total is less than 90
Total Units Required90 units	

Recommended Course Sequence

1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	5th Qtr	6th Qtr
CIS 15AG	CIS 15BG	CIS 18B or 33A	CIS 67A	(CIS 170F)	
CAOS 151G	CIS 18A	CIS 66	CIS 67B or (CIS 31)		CIS 75A

Programming/Network Programming

Business Programming

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

ACCT 1A	Financial Accounting I	5
BUS 10	Introduction to Business	5
CIS 15AG	Introduction to Computer Programming Using C	4 1/2
CIS 15BG	Intermediate Problem Solving in C	4 1/2
CIS 14A	Visual Basic.NET Programming I	4 1/2
CIS 14B	Visual Basic.NET Programming II	4 1/2
CIS 64A	Database Management Systems	4 1/2
CIS 66	Introduction to Data Communication and Networking	5

Complete one (1) course from: 4 1/2

CIS 15C	Data Structures (4 1/2)
CIS 63	Systems Design (4 1/2)

Complete one (1) course from*: 4-4 1/2

CIS 3	Business Information Systems (4 1/2)
CIS 14C	Visual Basic.NET Programming III (4 1/2)
(must have CIS 14B)	
CIS 67A	Local Area Networks (4)

Total Units Required 46-46 1/2

Recommended Course Sequence:

1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
ACCT 1A	CIS 14A	CIS 66	CIS 64
CIS 15AG	CIS 15BG	CIS 14B/15C	(*CIS 14C)
(*CIS 3)	CIS 63	BUS 10	(*CIS 67A)

Business Programming

A.A. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major	Complete the course requirements for the Business Programming Certificate of Achievement-Advanced	46-46 1/2 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
Total Units Required	90 units

Recommended Course Sequence:

1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	5th Qtr	6th Qtr
ACCT 1A	BUS 10	CIS 66	CIS 64	CIS 63	(*CIS 67A or CIS 3)
CIS 15AG	CIS 15BG	CIS 14A	CIS 14B/15C	(*CIS 14C)	

Network Basics

Certificate of Achievement [◇]

1. Meet the requirements for this certificate level as specified on page 52.
 2. Complete the following:
- | | | |
|----------------------|---|--------|
| CIS 15AG | Introduction to Computer Programming Using C | 4 1/2 |
| CIS 66 | Introduction to Data Communication and Networking | 5 |
| CIS 67A | Local Area Networks | 4 |
| CIS 75A | Internet Concepts and TCP/IP Protocols | 5 |
| Total Units Required | | 18 1/2 |

Network Programming

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
 2. Complete the following:
- | | | |
|--|---|---------------|
| CIS 15AG | Introduction to Computer Programming Using C | 4 1/2 |
| CIS 15BG | Intermediate Problem Solving in C | 4 1/2 |
| CIS 15C | Data Structures | 4 1/2 |
| CIS 18A | Introduction to UNIX/LINUX | 4 1/2 |
| CIS 26B | Advanced C Programming | 4 1/2 |
| CIS 66 | Introduction to Data Communication and Networking | 5 |
| CIS 75A | Internet Concepts and TCP/IP Protocols | 5 |
| CIS 75B | Internet Programming with TCP/IP | 5 |
| <i>Complete one (1) course from the following:</i> | | 4-5 |
| CIS 18B | Advanced UNIX/LINUX (4 1/2) | |
| CIS 21JA | Introduction to 8086 IA32 Processor Assembly Language (4 1/2) | |
| CIS 31 | Operating System Concepts (5) | |
| CIS 33A | Programming in PERL (4 1/2) | |
| CIS 67A | Local Area Networks (4) | |
| CIS 67B | Introduction to Wide Area Networking (4) | |
| Total Units Required | | 41 1/2-42 1/2 |

Recommended Course Sequence:

1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
CIS 15AG	CIS 15BG	CIS 15C	CIS 75B
CIS 18A	CIS 66	CIS 26B	CIS 31 or 67A or 67B
	CIS 75A	18B or 21JA or 33A	

Network Programming

A.A. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major	Complete the course requirements for the Network Programming Certificate of Achievement-Advanced	41 1/2-42 1/2 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
Total Units Required		90 units

Recommended Course Sequence:

1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	5th Qtr	6th Qtr
CIS 15AG	CIS 15BG	CIS 15C	CIS 26B	CIS 75A	(CIS 18B or 31 or 33A or 67A or 67B)
		CIS 18A	CIS 66	CIS 75B	

Programming in C/C++

Certificate of Achievement [◇]

1. Meet the requirements for this certificate level as specified on page 52.
 2. Complete the following:
- | | | |
|--------------------------------------|--|-------|
| CIS 15AG | Introduction to Computer Programming Using C | 4 1/2 |
| CIS 15BG | Intermediate Problem Solving in C | 4 1/2 |
| CIS 15C | Data Structures | 4 1/2 |
| <i>Complete one (1) course from:</i> | | 4 1/2 |
| CIS 26B | Advanced C Programming (4 1/2) | |
| CIS 27 | Programming in C++ for C Programmers (4 1/2) | |
| Total Units Required | | 18 |

Programming in JAVA

Certificate of Achievement [◇]

1. Meet the requirements for this certificate level as specified on page 52.
 2. Complete the following:
- | | | |
|----------------------|--|--------|
| CIS 15AG | Introduction to Computer Programming Using C | 4 1/2 |
| CIS 15BG | Intermediate Problem Solving in C | 4 1/2 |
| CIS 35A | Introduction to Java Programming | 4 1/2 |
| CIS 35B | Advanced Java Programming | 4 1/2 |
| CIS 53 | Distributed Processing Using Java | 4 1/2 |
| Total Units Required | | 22 1/2 |

Programming in PERL

Certificate of Achievement [◇]

1. Meet the requirements for this certificate level as specified on page 52.
 2. Complete the following:
- | | | |
|----------------------|--|--------|
| CIS 15AG | Introduction to Computer Programming Using C | 4 1/2 |
| CIS 15BG | Intermediate Problem Solving in C | 4 1/2 |
| CIS 18A | Introduction to UNIX/LINUX | 4 1/2 |
| CIS 33A | Programming in PERL | 4 1/2 |
| CIS 33B | Advanced PERL Programming | 4 1/2 |
| Total Units Required | | 22 1/2 |

Systems Programming

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
 2. Complete the following:
- | | | |
|---------------------------------------|---|-----------|
| CIS 15AG | Introduction to Computer Programming Using C | 4 1/2 |
| CIS 15BG | Intermediate Problem Solving in C | 4 1/2 |
| CIS 15C | Data Structures | 4 1/2 |
| CIS 18A | Introduction to UNIX/LINUX | 4 1/2 |
| CIS 21JA | Introduction to 8086 IA32 Processor Assembly Language | 4 1/2 |
| CIS 26B | Advanced C Programming | 4 1/2 |
| CIS 27 | Programming in C++ for C Programmers | 4 1/2 |
| CIS 31 | Operating System Concepts | 5 |
| <i>Complete one (1) course from*:</i> | | 4 1/2-5 |
| CIS 18B | Advanced UNIX/LINUX (4 1/2) | |
| CIS 28 | Object Oriented Analysis and Design (4 1/2) | |
| CIS 35A | Introduction to Java Programming (4 1/2) | |
| CIS 66 | Introduction to Data Communication and Networking (5) | |
| Total Units Required | | 41-41 1/2 |

Recommended Course Sequence:

1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	5th Qtr
CIS 15AG	CIS 15BG	CIS 15C	CIS 27	(*CIS 18B or 28 or 35A or 66)
CIS 18A	CIS 21JA	CIS 26B	CIS 31	

[◇] This certificate was submitted for state approval.
Please check with the department for status.

Systems Programming

A.A. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major	Complete the course requirements for the Systems Programming Certificate of Achievement-Advanced 41-41 1/2 units
GE	General Education (31-42 units)
Electives	Elective courses required when major units plus GE units total is less than 90
Total Units Required90 units	

Recommended Course Sequence:

1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	5th Qtr	6th Qtr
CIS 15AG	CIS 15BG	CIS 15C	CIS 26B	CIS 27	(*CIS 18B or 28 or 35A or 66)
CIS 18A	CIS 21JA	CIS 31			

UNIX/LINUX Operating System

Certificate of Achievement[◇]

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

CIS 15AG	Introduction to Computer Programming Using C	4 1/2
CIS 15BG	Intermediate Problem Solving in C	4 1/2
CIS 18A	Introduction to UNIX/LINUX	4 1/2
CIS 18B	Advanced UNIX/LINUX	4 1/2
CIS 18C	Shell Programming	4 1/2
Total Units Required22 1/2		

Visual Basic Programming

Certificate of Achievement[◇]

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

CIS 3	Business Information Systems	4 1/2
CIS 14A	Visual Basic.NET Programming I	4 1/2
CIS 14B	Visual Basic.NET Programming II	4 1/2
CIS 14C	Visual Basic.NET Programming III	4 1/2
Total Units Required18		

Web Development

Certificate of Achievement[◇]

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

Complete one (1) course from:		4 1/2
CIS 15AG	Introduction to Computer Programming Using C (4 1/2)	
CIS 14A	Visual Basic Programming I (4 1/2)	
Complete the following:		
CIS 18A	Introduction to UNIX/LINUX	4 1/2
CIS 89A	World Wide Web Page Development	3
CIS 89C	Client Side Programming with JavaScript	4 1/2
CIS 94	Introduction to Internet and World Wide Web or CAOS 94	1
CAOS 113A	Web Authoring Software (Dreamweaver) (or both CAOS 113I, 113Q – 2 units ea.)	4
Total Units Required21 1/2		

Technical Support/System Support Services

Help Desk

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

Prerequisite/Corequisite

Complete one (1) course from:	1/2-2
CAOS 90GA* Computer Literacy I (PC) (2)	
CAOS 100G* Orientation to the PC (1/2)	

* Based on previous experience or knowledge, student may substitute another CAOS course of equal or greater unit value with departmental approval.

Requirements

Complete one (1) course from:		2
CAOS 91AL	Word Processing I (Word XP/2002) (2)	
CAOS 91AM	Word Processing I (Word 2007) (2)	
Complete one (1) course from:		2
CAOS 93AL	Spreadsheets I (Excel XP/2002) (2)	
CAOS 93AM	Spreadsheets I (Excel 2007) (2)	
Complete one (1) course from:		1
CAOS 102L	Microsoft Windows I (Windows XP) (1)	
CAOS 102M	Microsoft Windows I (Windows Vista) (1)	
Complete one (1) course from:		2
CAOS 130L	Introduction to Business Graphics (PowerPoint XP/2002) (2)	
CAOS 130M	Introduction to Business Graphics (PowerPoint 2007) (2)	
Complete one (1) course from:		2
CAOS 110L	Database I (Access XP/2002) (2)	
CAOS 110M	Database I (Access 2007) (2)	
Complete the following:		
CIS 108	Personal Computer Security Basics or CAOS 108	4
CAOS 112A	Digital Imaging Software (Photoshop IBM) (or both CAOS 112I and 112Q – 2 units ea.)	4
CIS 170F	Windows 7 Administration	4 1/2
Total Units Required22-23 1/2		

System Support Services

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

Complete one (1) course from:		2
CAOS 91AL	Word Processing I (Word XP/2002) (2)	
CAOS 91AM	Word Processing I (Word 2007) (2)	
Complete one (1) course from:		2
CAOS 91BL	Word Processing II (Word XP/2002) (2)	
CAOS 91BM	Word Processing II (Word 2007) (2)	
Complete one (1) course from:		2
CAOS 93AL	Spreadsheets I (Excel XP/2002) (2)	
CAOS 93AM	Spreadsheets I (Excel 2007) (2)	
Complete one (1) course from:		2
CAOS 110L	Database I (Access XP/2002) (2)	
CAOS 110M	Database I (Access 2007) (2)	
Complete one (1) course from:		2
CAOS 130L	Introduction to Business Graphics (PowerPoint XP/2002) (2)	
CAOS 130M	Introduction to Business Graphics (PowerPoint 2007) (2)	

[◇] This certificate was submitted for state approval.
Please check with the department for status.

Complete one (1) course from: 4 1/2
 CIS 14A Visual Basic.NET Programming I (4 1/2)
 CIS 15AG Introduction to Computer Programming Using C (4 1/2)

Complete the following:
 CIS 66 Introduction to Data Communication and Networking 5
 CIS 67A Local Area Networks 4
 CIS 108 Personal Computer Security Basics or CAOS 108 4
 CIS 170F Windows 7 Administration 4 1/2
 SPCH 70 Effective Organizational Communication 4
 TWRT 61 Introduction to Technical Writing 5

Complete one (1) course from the following: 2-5
 BUS 21 Business and Society (5)
 CAOS 111M Database II (Access 2007) (2) or CAOS 111L
 CIS 2 Computers and Society (4)
 CIS 3 Business Information Systems (4 1/2)
 CIS 50 Introduction to Computers (3)
 Total Units Required 43-46

1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
CAOS 91AL/AM	CAOS 110L/M	CIS 170F	CIS 66
CAOS 91BL/BM	CAOS 130L/M	TWRT 61	CIS 67A
CAOS 93AL/AM	CIS 108	CIS 14A or 15AG	SPCH 70
(BUS 21 or CIS 2 or CIS 3 or CIS 50)			

System Support Services

A.A. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major Complete the course requirements for the Certificate of Achievement-Advanced 43-46 units
 GE General Education (31-42 units)
 Electives Elective courses required when major units plus GE units total is less than 90
 Total Units Required 90 units

Recommended Course Sequence:

1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
CAOS 91AL/AM	CAOS 110L/M	CIS 170F	CIS 66
CAOS 91BL/BM	CAOS 130L/M	CIS 14A or 15AG	SPCH 70
CAOS 93AL/AM	CIS 108		
(BUS 21 or CIS 2 or CIS 3 or CIS 50)			

5th Qtr

CIS 67A
 TWRT 61

English^o

A.A. Degree

Prerequisite

EWRT 1A Composition and Reading

1. Meet the A.A./A.S. degree requirements as specified on page 52.
2. Complete the following:

Complete one (1) course from: 5
 EWRT 1B Reading, Writing, and Research (5)
 EWRT 2 Critical Reading, Writing, and Thinking (5)

Complete three (3) courses from the following: 12
 ELIT 46A Major British Writers (Medieval and Renaissance) (4)
 ELIT 46B Major British Writers (Neo-Classical and Romantic) (4)
 ELIT 46C Major British Writers (Victorian and Modern) (4)
 ELIT 48A Major American Writers (Colonial and Romantic, 1620-1855) (4)
 ELIT 48B Major American Writers (The Advent of Realism, 1855-1920) (4)
 ELIT 48C Major American Writers (The Modern Age, 1914-present) (4)

Complete one (1) course from the following: 4-5
 EWRT 1C Literature and Composition (5)
 ELIT 10 Introduction to Fiction (4)
 ELIT 11 Introduction to Poetry (4)
 ELIT 12 Introduction to Dramatic Literature (4)
 ELIT 17 Introduction to Shakespeare (4)

Complete two (2) courses from the following that do not duplicate courses selected above: 8
 ELIT 20 Major Authors (variable topics) (4)
 ELIT 21 Women in Literature (4) or WMST 21
 ELIT 22 Mythology and Folklore (4)
 ELIT 24 Asian American Literature (4) or ICS 24
 ELIT 25 Introduction to Linguistics (4) or LING 1
 ELIT 39 Contemporary Literature (4)
 ELIT 44 International Literature (4)
 ELIT 46A Major British Writers (Medieval and Renaissance) (4)
 ELIT 46B Major British Writers (Neo-Classical and Romantic) (4)
 ELIT 46C Major British Writers (Victorian and Modern) (4)
 ELIT 48A Major American Writers (Colonial and Romantic, 1620-1855) (4)
 ELIT 48B Major American Writers (The Advent of Realism, 1855-1920) (4)
 ELIT 48C Major American Writers (The Modern Age, 1914-present) (4)
 ELIT 58 Children's Literature (4) or EDUC 58
 EWRT 30 Introduction to Creative Writing (4)
 Major English 29-30 units
 GE General Education (31-42 units)
 Electives Elective courses required when major units plus GE units total is less than 90
 Total Units Required 90 units

Environmental Studies

Biodiversity Specialist

Certificate of Achievement^o

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

ES 95	Introduction to Environmental Careers	1
ESCI 1	Environmental Science	4
ESCI 1L	Environmental Science Lab	1
ESCI 19	Environmental Biology	5
ESCI 20	Introduction to Biodiversity	5
ESCI 21	Biodiversity 2	5
ESCI 30	Conservation Biology	5
Total Units Required		26

^o This certificate was submitted for state approval.
 Please check with the department for status.

Biodiversity Specialist

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the Certificate of Achievement course requirements. 26
3. Complete the following:

ES 1	Introduction to Environmental Studies	4
ES 80	California Field Studies	1
ES 85A	California Native Plants and Animals	2
ES 91X	Environmental Education and Nature-Based Learning	2
GEO 1	Physical Geography	4
Complete one (1) course from the following:		5
CHEM 1A	General Chemistry (5)	
CHEM 10	Introduction to Chemistry (5)	
CHEM 30A	Survey of Chemistry (5)	
CHEM 50	Preparatory Course for General Chemistry (5)	5
Total Units Required		44

Biodiversity Specialist

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.
2. Complete the course requirements listed for the Certificate of Achievement and the Certificate of Achievement-Advanced. 44
3. Complete the following:

ESCI 50	Introduction to Wildlife Corridor Technician: Connectivity	2
Complete a minimum of four (4) units from the following:		4
ES 2	Humans, the Environment and Sustainability (4)	
ES 3	Imagery of the Environment (4)	
ES 6	Introduction to Environmental Law (4)	
ES 55	Ten Steps to Effective Learning in Environmental Studies (1)	
ES 65	Environmental Stewardship (1)	
ES 66	Environmental Leadership (1)	
ES 67	Environmental Team-Building (1)	
ES 68	Community-Based Coalitions and Stakeholders (1)	
ES 85B	Cheeseman Environmental Study Area Interpretive Training (2)	
ES 86	Global Field Studies (4)	
ES 90	Environmental Research and Field Methods (4)	
ES 91Z	Environmental Education and Nature-Based Learning (4)	
ESCI 52	Wildlife Corridor Technician: Animal Tracking Techniques (1)	
ESCI 55	Wildlife Corridor Technician: Corridor Design (1)	
MET 10	Weather Processes (4)	
MET 10L	Meteorology Laboratory (1)	
PHYS 2A	General Introductory Physics (5)	
PHYS 4A	Physics for Scientists and Engineers (6)	
PHYS 50	Preparatory Physics (4)	
Major	Biodiversity Specialist	50 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
Total Units Required		90 units

Energy Management and Climate Policy

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

ES 1	Introduction to Environmental Studies	4
ES 58	Introduction to Green Building	1
ES 64	AB 32 (CA Global Warming Solutions Act of 2006)	1
ES 65	Environmental Stewardship	1
ES 66	Environmental Leadership	1
ES 69	Energy Reliability and Your Organization	1
ES 70	Introduction to Energy Management Technology	1
ES 71	The Building Envelope	1
ES 72	Heating, Ventilating and Air Conditioning (HVAC) Systems	1
ES 73	Electric Motors and Drives	1
ES 74	Lighting Distribution Systems	1
ES 75	Electric Power Systems	1
ES 76	Energy Star Products	1
ES 76A	Solar Thermal Systems	1
ES 78	Energy Management Systems and Controls	1
ES 79	Renewable and Alternative Energy Systems	1
ES 90	Environmental Research and Field Methods	4
ESCI 61	Introduction to Photovoltaic (PV) Technology	3
Total Units Required		26

Energy Management and Climate Policy

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the Certificate of Achievement course requirements. 26
3. Complete the following:

ES 6	Introduction to Environmental Law	4
ES 61A	Environmental Protection and Pollution Prevention: Local and Regional	4
ES 67	Environmental Team-Building	1
ES 68	Community-Based Coalitions and Stakeholders	1
ES 95	Introduction to Environmental Careers	1
ES 95B	Environmental Studies Internships	2
Total Units Required		39

Energy Management and Climate Policy

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.
2. Complete the course requirements listed for the Certificate of Achievement and the Certificate of Achievement-Advanced. 39
3. Complete the following:

ESCI 1	Environmental Science I	4
ESCI 1L	Environmental Science I Lab	1
ESCI 63	Photovoltaic (PV) Technology Field Project	2

Complete a minimum of four (4) units from the following:			4
ES 2	Humans, the Environment and Sustainability (4)		
ES 3	Imagery of the Environment (4)		
ES 55	Ten Steps to Effective Learning in Environmental Studies (1)		
ESCI 19	Environmental Biology (5)		
ESCI 50	Introduction to Wildlife Corridor Technician: Connectivity (2)		
ESCI 52	Wildlife Corridor Technician: Animal Tracking Techniques (1)		
ESCI 53	Wildlife Corridor Technician: Data Collection (1)		
ESCI 54	Wildlife Corridor Technician: Data Analysis (1)		
ESCI 55	Wildlife Corridor Technician: Corridor Design (1)		
Major	Energy Management and Climate Policy	50 units	
GE	General Education (31-42 units)		
Electives	Elective courses required when major units plus GE units total is less than 90		
Total Units Required			90 units

Environmental Compliance and Pollution Prevention

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

ES 1	Introduction to Environmental Studies	4
ES 6	Introduction to Environmental Law	4
ES 50	Introduction to Pollution Prevention, Hazardous Waste, and Environmental Justice	4
ES 56	Environmental Health and Justice	4
ES 61A	Environmental Protection and Pollution Prevention: Local and Regional	4
ES 61B	Environmental Protection and Pollution Prevention: State and Federal	4
ES 63	Agenda 21: Blueprint for Sustainability	1
ES 64	AB 32 (CA Global Warming Solutions Act of 2006)	1
Total Units Required		26

Environmental Compliance and Pollution Prevention

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the Certificate of Achievement course requirements. 26
3. Complete the following:

ES 58	Introduction to Green Building	1
ES 65	Environmental Stewardship	1
ES 66	Environmental Leadership	1
ES 79	Renewable and Alternative Energy Systems	1
ES 90	Environmental Research and Field Methods	4
ES 95	Introduction to Environmental Careers	1
ESCI 1	Environmental Science	4
ESCI 1L	Environmental Science Lab	1
Total Units Required		40

Environmental Compliance and Pollution Prevention

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.
2. Complete the course requirements listed for the Certificate of Achievement and the Certificate of Achievement-Advanced. 40
3. Complete the following:

ESCI 50	Introduction to Wildlife Corridor Technician: Connectivity	2
ESCI 61	Introduction to Photovoltaic (PV) Technology	3

Complete a minimum of five (5) units from the following: 5

- | | | |
|--------------------------------|--|----|
| ES 55 | Ten Steps to Effective Learning in Environmental Studies (1) | |
| ES 67 | Environmental Team-Building (1) | |
| ES 68 | Community-Based Coalitions and Stakeholders (1) | |
| ES 69 | Energy Reliability and Your Organization (1) | |
| ES 70 | Introduction to Energy Management Technology (1) | |
| ES 80 | California Field Studies (1) | |
| ES 85A | California Native Plants and Animals (2) | |
| ES 91X | Environmental Education and Nature-Based Learning (2) | |
| ES 91Z | Environmental Education and Nature-Based Learning (4) | |
| ES 95B | Environmental Studies Internship (2) | |
| ESCI 19 | Environmental Biology (5) | |
| ESCI 20 | Introduction to Biodiversity (5) | |
| ESCI 21 | Biodiversity 2 (5) | |
| Total Units Required | | 50 |
- | | | |
|--------------------------------|--|----------|
| Major | Environmental Compliance and Pollution Prevention | 50 units |
| GE | General Education (31-42 units) | |
| Electives | Elective courses required when major units plus GE units total is less than 90 | |
| Total Units Required | | 90 units |

Wildlife Corridor Technician

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

ES 1	Introduction to Environmental Studies	4
ES 65	Environmental Stewardship	1
ES 66	Environmental Leadership	1
ES 67	Environmental Team-Building	1
ES 68	Community-Based Coalitions and Stakeholders	1
ESCI 1	Environmental Science	4
ESCI 1L	Environmental Science Lab	1
ESCI 50	Introduction to Wildlife Corridor Technician: Connectivity	2
ESCI 52	Wildlife Corridor Technician: Animal Tracking Techniques	1
ESCI 53	Wildlife Corridor Technician: Data Collection	1
ESCI 54	Wildlife Corridor Technician: Data Analysis	1
ESCI 55	Wildlife Corridor Technician: Corridor Design	1
ESCI 56	Wildlife Corridor Technician: Plant Survey Techniques	1
ESCI 57	Wildlife Corridor Technician: Advanced Tracking	2
ESCI 58	Wildlife Corridor Technician: Advanced Tracking 2	4
Total Units Required		26

Ø This certificate was submitted for state approval.
Please check with the department for status.

Environmental Stewardship

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the course requirements for the Wildlife Corridor Technician Certificate of Achievement. 26
3. Complete the following:

ES 3	Imagery of the Environment	4
ES 63	Agenda 21: Blueprint for Sustainability	1
ESCI 20	Introduction to Biodiversity	5
<i>Complete a minimum of five (5) units from the following:</i>		5
ES 80	California Field Studies (1)	
ESCI 82,X,Y,Z	Central Coast Wildlife Corridors: Coyote Valley series (1-4 units)	
ESCI 83,X,Y,Z	Central Coast Wildlife Corridors: Salinas River Drainage series (1-4 units)	
ESCI 84,X,Y,Z	Central Coast Wildlife Corridors: San Benito River Drainage series (1-4 units)	
ESCI 85,X,Y,Z	Central Coast Wildlife Corridors: Pajaro River Drainage series (1-4 units)	
ESCI 86,X,Y,Z	Central Coast Wildlife Corridors: Pacheco Pass series (1-4 units)	
ESCI 87,X,Y,Z	Central Coast Wildlife Corridors: Diablo Range series series (1-4 units)	
ESCI 88,X,Y,Z	Central Coast Wildlife Corridors: Santa Cruz Mountains series (1-4 units)	
ESCI 90	Santa Clara County Field Studies: Tule Elk (1)	
ESCI 91	Santa Clara County Field Studies: American Badger (1)	
ESCI 92	Santa Clara County Field Studies: Raptors (1)	
Total Units Required		41

Environmental Stewardship

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.
2. Complete the course requirements listed for the:
 - Wildlife Corridor Technician Certificate of Achievement
 - Environmental Stewardship Certificate of Achievement-Advanced
 41
3. Complete the following:

<i>Complete a minimum of nine (9) units from the following:</i>		9
ES 2	Humans, the Environment and Sustainability (4)	
ES 6	Introduction to Environmental Law (4)	
ES 55	Ten Steps to Effective Learning in Environmental Studies (1)	
ES 56	Environmental Health and Justice (4)	
ES 61A	Environmental Protection and Pollution Prevention: Local and Regional (4)	
ES 69	Energy Reliability and Your Organization (1)	
ES 70	Introduction to Energy Management (1)	
ES 71	The Building Envelope (1)	
ES 76	Energy Star Products (1)	
ES 85A	California Native Plants and Animals (2)	
ES 86	Global Field Studies (4)	
ES 90	Environmental Research and Field Methods (4)	
ES 91X	Environmental Education and Nature-Based Learning (2)	
ES 91Z	Environmental Education and Nature-Based Learning (4)	
ES 93	Sustainability Across the Curriculum (1)	
ES 95	Introduction to Environmental Careers (1)	
ES 95B	Environmental Studies Internship (2)	

ESCI 19	Environmental Biology (5)	
ESCI 21	Biodiversity 2 (5)	
ESCI 30	Conservation Biology (5)	
CHEM 1A	General Chemistry (5)	
CHEM 10	Introduction to Chemistry (5)	
CHEM 30A	Survey of Chemistry (5)	
CHEM 50	Preparatory Course for General Chemistry (5)	
GEO 1	Physical Geography (4)	
HIST 28	Social Environmental History (4)	
MET 10	Weather Processes (4)	
MET 10L	Meteorology Laboratory (1)	
PHYS 50	Preparatory Physics (4)	
Major	Environmental Stewardship	50 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
Total Units Required		90 units

Film Production

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.
2. Complete the following:

<i>Complete one (1) course from the following:</i>		4-4 1/2
F/TV 2A	History of Cinema (1895-1950) (4)	
F/TV 2AW	History of Cinema (1895-1950) (4 1/2)	
F/TV 2B	History of Cinema (1950-Present) (4)	
F/TV 2BW	History of Cinema (1950-Present) (4 1/2)	

Complete the following:

F/TV 1	Introduction to Film	4
F/TV 20	Basic Digital Film/Video Production	4
F/TV 22	16MM Film Production I	4
F/TV 50	Introduction to Film/Television Directing	4
F/TV 52A	16MM Film Production II	4
F/TV 53	Non-Linear Editing	4
F/TV 60A	Scriptwriting for Film and Video I	4

<i>Complete a minimum of one-half (1/2) unit from the production workshop series of courses:</i>		1/2-8
F/TV 58R-Z	Film/Television Production Workshop	

<i>Complete a minimum of six (6) units from the following:</i>		6
ARTS 53B	Introduction to Visual Technology (3)	
F/TV 10	Introduction to Electronic Media (4)	
F/TV 41	Film Genres (variable topics) (4)	
F/TV 42	National Cinemas (4)	
F/TV 43	Film Artists (variable topics) (4)	
F/TV 45	History of Experimental Film/Video (4)	
F/TV 48	Cinema and the African-American (4)	
F/TV 51A	Intermediate Digital Film and Video Production (4)	
F/TV 52B	16MM Film Production III (4)	
F/TV 54 series	F/TV 54, 54X, 54Y, 54Z	
Film/Television Production Laboratory (1/2-3)		
<i>Up to three (3) units from this F/TV series may apply.</i>		
F/TV 55A	Video Studio Production (4)	
F/TV 57A	Non-Fiction Workshop I (The Documentary) (4)	
F/TV 59	The Role of the Media Producer (4)	
F/TV 60B	Scriptwriting for Film and Video II (4)	
F/TV 60C	Scriptwriting for Film and Video III (4)	
F/TV 61	TV Scriptwriting for Training and Communications (4)	
F/TV 62	Lighting for Television and Film (4)	
F/TV 63A	Location Recording and Sound Design (3)	
F/TV 64A	Fiction Screenwriting I (4)	

F/TV 64B	Fiction Screenwriting II (4)	
F/TV 64C	Fiction Screenwriting III (4)	
F/TV 65	Current Practices in the Film/Video Profession (4)	
F/TV 66	Basic Techniques of Animation: 3D Media (3)	
F/TV 68	Sound for Animation (3)	
F/TV 69	Principles of Animation: Character and Motion (3)	
F/TV 70H	The Animation Storyboard (3)	
F/TV 71	Animated Film Production Workshop (3)	
F/TV 72	Advanced Animation Workshop (3)	
F/TV 75G	History of Animation (4)	
F/TV 78 series	F/TV 78, 78W, 78X	
	Special Topics in Film Studies (1/2-2)	
F/TV 85	Motion Graphics (3)	
F/TV 92	Topics: Guest Artist/Industry Professional (1/2)	
F/TV 98G	Fiction Workshop (The Writer, Producer, Director) (3)	
F/TV 98H	Fiction Workshop (Technical Crew) (3)	
F/TV 98J	Fiction Workshop (Editing/Post Production) (3)	
HUMI 1	Creative Minds (4)	
HUMI 2	But Is It Art? Questions and Criticism (4)	
HUMI 15	Discussion on the Arts (4)	
PHTG 2	Intermediate Photography (3)	
PHTG 3	Advanced Photography (3)	
Major	Film Production	38 1/2-46 1/2 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

Film/Television Production: Animation Emphasis

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

F/TV 20	Basic Film/Video Production	4
F/TV 66A	Basic Techniques of Animation: 3D Media	3
F/TV 67I	Drawing for Animation: Layout and Visual Development	3
F/TV 68	Sound for Animation	3
F/TV 69	Principles of Animation: Character and Motion	3
F/TV 70G	Screenwriting for Animation	4
F/TV 70H	The Animation Storyboard	3
F/TV 71	Animated Film Production Workshop	3
F/TV 72	Advanced Animation Workshop	3
F/TV 75G	History of Animation	4
F/TV 75I	Contemporary World Animation	4
F/TV 83A	Introduction to 2D Computer Animation	3

Complete a minimum of nine (9) units from the following: 9

ARTS 4C	Life Drawing (3)	
F/TV 62	Lighting for Television and Film (4)	
F/TV 67G	Drawing for Animation (Human Figure) (3)	
F/TV 67H	Drawing for Animation (Animal Expression) (3)	
F/TV 75H	Classic Hollywood Animation (4)	
F/TV 75J	The Animated Feature Film (4)	
F/TV 75K	Japanese Animation (4)	
F/TV 77X	Animation History Area Studies (1)	
F/TV 77Y	Animation History Area Studies (2)	
F/TV 79G	Workshop with Professional Traditional Animator (3)	

F/TV 79H	Workshop with Professional Computer Animator (3)	
F/TV 80G	Independent Projects in Animation (2)	
F/TV 81 series	F/TV 81, 81X, 81Y, 81Z	
	Seminar in Animation Production Topics (1/2-3)	
F/TV 83B	Advanced 2D Computer Animation (4)	
F/TV 84A	Introduction to 3D Computer Animation (4)	
F/TV 84B	Intermediate 3D Computer Animation (4)	
F/TV 84C	Advanced 3D Computer Animation (4)	

F/TV 77X, Y and 81 series courses are repeatable as topics vary; F/TV 79G, 79H are repeatable as instructors and topics vary.

Total Units Required 50

Film/Television Production: Animation Emphasis

A.A. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major	Complete the course requirements for the Certificate of Achievement-Advanced	50 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

Animation History and Criticism

Certificate of Achievement^o

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

F/TV 75G	History of Animation	4
F/TV 75H	Classic Hollywood Animation	4
F/TV 75I	Contemporary World Animation	4
F/TV 75J	The Animated Feature Film	4
F/TV 75K	Japanese Animation	4

Complete one (1) course (variable topics) from: 1-2

F/TV 77X	Animation History Area Studies (1)	
F/TV 77Y	Animation History Area Studies (2)	

Complete a minimum of (3) units from the following: 3

F/TV 2A	History of Cinema (1895-1950) (4)	
F/TV 2B	History of Cinema (1950-Present) (4)	
F/TV 41	Film Genres (variable topics) (4)	
F/TV 42	National Cinemas (4)	
F/TV 43	Film Artists (variable topics) (4)	
F/TV 66A	Basic Techniques of Animation: 3D Media (3)	
F/TV 69	Principles of Animation: Character and Motion (3)	
F/TV 70H	The Animation Storyboard (3)	
	Total Units Required	24-25

The Animation History and Criticism Certificate of Achievement is a one-year program designed for:

- Animation Production students seeking a more complete knowledge of the field and a historical context for their work.
- Prospective or current university Film Studies majors who wish to investigate an area of cinematic history rarely explored at film schools.
- Prospective or current Animation or Multimedia teachers who wish to expand their expertise in Animation History to complement their production skills and augment their teaching.
- Prospective or current Film Studies teachers, seeking to diversify their backgrounds and qualify themselves to teach Animation History courses at other institutions.

^o This certificate was submitted for state approval.
Please check with the department for status.

Animation Production

Certificate of Achievement[◇]

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

F/TV 66A	Basic Techniques of Animation: 3D Media	3
F/TV 67I	Drawing for Animation: Layout and Visual Development	3
F/TV 69	Principles of Animation: Character and Motion	3
F/TV 70H	The Animation Storyboard	3
F/TV 71	Animated Film Production Workshop	3
F/TV 75G	History of Animation	4
F/TV 75I	Contemporary World Animation	4
F/TV 83A	Introduction to 2D Computer Animation	3
	Total Units Required	26

Computer Animation

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

F/TV 20	Basic Film/Video Production	4
F/TV 66A	Basic Techniques of Animation: 3D Media	3
F/TV 67I	Drawing for Animation: Layout and Visual Development	3
F/TV 68	Sound for Animation	3
F/TV 69	Principles of Animation: Character and Motion	3
F/TV 70G	Screenwriting for Animation	4
F/TV 70H	The Animation Storyboard	3
F/TV 72	Advanced Animation Workshop	3
F/TV 75G	History of Animation	4
F/TV 75I	Contemporary World Animation	4
F/TV 83A	Introduction to 2D Computer Animation	3
F/TV 84A	Introduction to 3D Computer Animation	4
F/TV 84B	Intermediate 3D Computer Animation	4
F/TV 84C	Advanced 3D Computer Animation	4
	Complete a minimum of 10 units from the following:	10
ARTS 4C	Life Drawing (3)	
F/TV 60A	Scriptwriting for Film and Video I (4)	
F/TV 62	Lighting for Television and Film (4)	
F/TV 67G	Drawing for Animation (Human Figure) (3)	
F/TV 67H	Drawing for Animation (Animal Expression) (3)	
F/TV 71	Animated Film Production Workshop (3)	
F/TV 75H	Classic Hollywood Animation (4)	
F/TV 75J	The Animated Feature Film (4)	
F/TV 75K	Japanese Animation (4)	
F/TV 77X	Animation History Area Studies (1)	
F/TV 77Y	Animation History Area Studies (2)	
F/TV 79G	Workshop with Professional Traditional Animator (3)	
F/TV 79H	Workshop with Professional Computer Animator (3)	
F/TV 80G	Independent Projects in Animation (2)	
F/TV 81 series	F/TV 81, 81X, 81Y, 81Z Seminar in Animation Production Topics (1/2-3)	
F/TV 83B	Advanced 2D Computer Animation (4)	
	F/TV 77X, Y and 81 series courses are repeatable as topics vary; F/TV 79G, 79H are repeatable as instructors and topics vary.	
	Total Units Required	60

Film/Television Production: Screenwriting[◇]

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.
2. Complete the following:

F/TV 1	Introduction to Film	4
F/TV 2A	History of Cinema (1895-1950)	4
F/TV 2B	History of Cinema (1950-Present)	4
F/TV 10	Introduction to Electronic Media	4
F/TV 20	Basic Digital Film/Video Production	4
F/TV 60A	Scriptwriting for Film and Video I	4
F/TV 60B	Scriptwriting for Film and Video II	4
F/TV 60C	Scriptwriting for Film and Video III	4
F/TV 64A	Fiction Screenwriting I	4
F/TV 64B	Fiction Screenwriting II	4
F/TV 64C	Fiction Screenwriting III	4
	Complete a minimum of four (4) units from the following:	4
ARTS 53B	Introduction to Visual Technology (3)	
F/TV 22	16MM Film Production I (4)	
F/TV 41	Film Genres (variable topics) (4)	
F/TV 42	National Cinemas (4)	
F/TV 43	Film Artists (variable topics) (4)	
F/TV 45	History of Experimental Film/Video (4)	
F/TV 48	Cinema and the African-American (4)	
F/TV 50	Introduction to Film/Television Directing (4)	
F/TV 51A	Intermediate Digital Film and Video Production (4)	
F/TV 52A	16MM Film Production II (4)	
F/TV 52B	16MM Film Production III (4)	
F/TV 54 series	F/TV 54, 54X, 54Y, 54Z Film/Television Production Laboratory (1/2-3)	
	Up to three (3) units from this F/TV series may apply.	
F/TV 55A	Video Studio Production (4)	
F/TV 57A	Non-Fiction Workshop I (The Documentary) (4)	
F/TV 59	The Role of the Media Producer (4)	
F/TV 61	TV Scriptwriting for Training and Communications (4)	
F/TV 62	Lighting for Television and Film (4)	
F/TV 63A	Location Recording and Sound Design (3)	
F/TV 65	Current Practices in the Film/Video Profession (4)	
F/TV 66A	Basic Techniques of Animation: 3D Media (3)	
F/TV 68	Sound for Animation (3)	
F/TV 69	Principles of Animation: Character and Motion (3)	
F/TV 70H	The Animation Storyboard (3)	
F/TV 71	Animated Film Production Workshop (3)	
F/TV 72	Advanced Animation Workshop (3)	
F/TV 75G	History of Animation (4)	
F/TV 78 series	F/TV 78, 78W, 78X Special Topics in Film Studies (0.5-2)	
F/TV 85	Motion Graphics (3)	
F/TV 92	Topics: Guest Artist/Industry Professional (0.5)	
F/TV 98G	Fiction Workshop (The Writer, Producer, Director) (3)	
F/TV 98H	Fiction Workshop (Technical Crew) (3)	
F/TV 98J	Fiction Workshop (Editing/Post Production) (3)	
HUMI 1	Creative Minds (4)	
HUMI 2	But Is It Art? Questions and Criticism (4)	
HUMI 15	Discussion on the Arts (4)	
PHTG 2	Intermediate Photography (3)	
PHTG 3	Advanced Photography (3)	

[◇] This certificate was submitted for state approval.
Please check with the department for status.

Major	Film/Television Production	48 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

Film/Television Production: Television Emphasis

Certificate of Achievement [◇]

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

F/TV 20	Basic Digital Film/Video Production	4
F/TV 53	Non-Linear Editing	4
F/TV 55A	Video Studio Production	4
F/TV 59	The Role of the Media Producer	4
F/TV 60A	Scriptwriting for Film and Video I	4
	Total Units Required	20

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the Certificate of Achievement course requirements. 20
3. Complete the following:

F/TV 10	Introduction to Electronic Media	4
F/TV 50	Introduction to Film/Television Directing	4
F/TV 51A	Intermediate Digital Film/Video Production	4
F/TV 63A	Location Recording and Sound Design	3
	Total Units Required	35

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.
2. Complete the course requirements listed for the Certificate of Achievement and the Certificate of Achievement-Advanced. 35
3. Complete the following:

Complete one (1) course from the following: 4-4 1/2

F/TV 2A	History of Cinema (1895-1950) (4)
F/TV 2AW	History of Cinema (1895-1950) (4 1/2)
F/TV 2B	History of Cinema (1950-Present) (4)
F/TV 2BW	History of Cinema (1950-Present) (4 1/2)

Complete a minimum of six (6) units from the following which do not duplicate courses taken above: 6

ARTS 53B	Introduction to Visual Technology (3)
F/TV 1	Introduction to Film (4)
F/TV 2A	History of Cinema (1895-1950) (4)
F/TV 2AW	History of Cinema (1895-1950) (4 1/2)
F/TV 2B	History of Cinema (1950-Present) (4)
F/TV 2BW	History of Cinema (1950-Present) (4 1/2)
F/TV 22	16MM Film Production I (4)
F/TV 41	Film Genres (variable topics) (4)
F/TV 42	National Cinemas (4)
F/TV 43	Film Artists (variable topics) (4)
F/TV 45	History of Experimental Film/Video (4)
F/TV 48	Cinema and the African-American (4)
F/TV 52A	16MM Film Production II (4)
F/TV 52B	16MM Film Production III (4)
F/TV 54 series	F/TV 54, 54X, 54Y, 54Z Film/Television Production Laboratory (1/2-3) <i>Up to three (3) units from this F/TV series may apply.</i>
F/TV 57A	Non-Fiction Workshop I: The Documentary (4)

F/TV 58 series	F/TV 58R-Z Film/Television Production Workshop (1/2-8)
F/TV 60B	Scriptwriting for Film and Video II (4)
F/TV 60C	Scriptwriting for Film and Video III (4)
F/TV 61	TV Scriptwriting for Training and Communications (4)
F/TV 62	Lighting for Television and Film (4)
F/TV 63B	Audio Post Production (3)
F/TV 64A	Fiction Screenwriting I (4)
F/TV 64B	Fiction Screenwriting II (4)
F/TV 64C	Fiction Screenwriting III (4)
F/TV 65	Current Practices in the Film/Video Profession (4)
F/TV 66A	Basic Techniques of Animation: 3D Media (3)
F/TV 68	Sound for Animation (3)
F/TV 69	Principles of Animation: Character and Motion (3)
F/TV 70H	The Animation Storyboard (3)
F/TV 71	Animated Film Production Workshop (3)
F/TV 72	Advanced Animation Workshop (3)
F/TV 75G	History of Animation (4)
F/TV 78 series	F/TV 78, 78W, 78X Special Topics in Film Studies (1/2-2)
F/TV 85	Motion Graphics (3)
F/TV 92	Topics: Guest Artist/Industry Professional (1/2)
F/TV 98G	Fiction Workshop (The Writer, Producer, Director) (3)
F/TV 98H	Fiction Workshop (Technical Crew) (3)
F/TV 98J	Fiction Workshop (Editing/Post Production) (3)
HUMI 1	Creative Minds (4)
HUMI 2	But Is It Art? Questions and Criticism (4)
HUMI 15	Discussion on the Arts (4)
PHTG 1	Basic Photography (3)
PHTG 2	Intermediate Photography (3)
PHTG 3	Advanced Photography (3)
Major	Film/Television Production: TV Emphasis 45-45 1/2 units
GE	General Education (31-42 units)
Electives	Elective courses required when major units plus GE units total is less than 90
	Total Units Required 90 units

Global Studies

Certificate of Achievement [◇]

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Complete one (1) course from: 4

HIST/ICS 3A	World History (4)
HIST/ICS 3B	World History (4)
HIST/ICS 3C	World History (4)

Complete one (1) course from: 4

ANTH 2	Cultural Anthropology (4)
ECON 1	Principles of Macroeconomics (4)
GEO 10	World Regional Geography (4)

Complete the following:

ES 1	Introduction to Environmental Studies	4
ICS/SPCH 7	Intercultural Communication	4
INTL 5	Global Issues and Perspectives	4
LCEN 50	Introduction to Online Research	1
	Total Units Required	21

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the Certificate of Achievement course requirements. 21
3. Complete the following:

One year (3 quarters) of college-level world language 15
World Languages offered: Arabic, Cantonese, French, German, Hebrew, Hindi, Italian, Japanese, Korean, Mandarin, Persian, Russian, Spanish, Urdu, Vietnamese
Total Units Required 36

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.
2. Complete the following:

Complete one (1) course from: 4
HIST/ICS 3A World History (4)
HIST/ICS 3B World History (4)
HIST/ICS 3C World History (4)

Complete the following:
ANTH 2 Cultural Anthropology 4
ECON 1 Principles of Macroeconomics 4
ES 1 Introduction to Environmental Studies 4
GEO 10 World Regional Geography 4
ICS/SPCH 7 Intercultural Communication 4
INTL 5 Global Issues and Perspectives 4
LCEN 50 Introduction to Online Research 1
Language Requirement 0-15

One year (3 quarters) of college-level world language or three (3) years of high school foreign language or the equivalent
Complete 24 units from the courses listed below. 24

Selections may be from one area of study or a combination of areas of emphasis. The HIST/ICS World History course completed as a major core requirement may not also count toward completion of the 24 major elective units.

Arts and Humanities

ARTS 2A History of Art (Europe from Prehistory through Early Christianity) (4)
ARTS 2B History of Art (Europe During Middle Ages/Renaissance) (4)
ARTS 2C History of Art (Europe from the Baroque Period through Impressionism) (4)
ARTS 2D History of Art (Europe and the United States/Post-Impressionism) (4)
ARTS 2G Arts of Asia (4)
ARTS 3TC Women and Art (4)
F/TV 2A History of Cinema (1895-1950) (4)
F/TV 2B History of Cinema (1950-Present) (4)
F/TV 42 National Cinemas (4)
HUMI 9 Introduction to Comparative Religion (4)
HUMI 10 Introduction to Western Religions (4)
HUMI 14A Indian Philosophy (4)
HUMI 14B Chinese Philosophy (4)
HUMI 14C Japanese Philosophy (4)
INTL 11 Vietnamese Literature (4)
INTL 13 Introduction to Korean Popular Culture (4)
INTL 15 Introduction to the Arab World (4)
MUSI 1C Introduction to Music: World Music in America (4)

Global Environment

ES 6 Introduction to Environmental Law (4)
ESCI 19 Environmental Biology (5)
ESCI 30 Conservation Biology (4)
GEO 1 Physical Geography (4)

Globalization Issues

BUS 21 Business and Society (5)
CIS 2 Computers and Society (4)
POLI 3 International Relations (4)
SOC 1 Introduction to Sociology (4)

International Business

BUS 21 Business and Society (5)
BUS 56 Human Relations in Business (5)
BUS 60 International Business Management (5)
BUS 70 Principles of E-Business (5)
BUS 87 Introduction to Selling (4)
BUS 89 Advertising (5)
BUS 90 Principles of Marketing (5)
ECON 2 Microeconomics (4)
POLI 3 International Relations (4)

World History

ANTH 4 World Prehistory (4)
HIST 3A World History (4)
HIST 3B World History (4)
HIST 3C World History (4)
HIST 4A History of Western Civilization (4)
HIST 4B History of Western Civilization (4)
HIST 4C History of Western Civilization (4)
HIST 4D History of Western Civilization (4)
HIST 7A Colonial Latin American History (4)
HIST 7B Modern Latin American History (4)
HIST 16A History of Africa to 1800 (4)
HIST 16B History of Africa from 1800 to Present (4)
HIST 19A History of Asian Civilization (4)
HIST 19B History of Asian Civilization (4)
ICS 37 Ancient People of Mesoamerica (4)
INTL 30 Introduction to Islamic Studies (4)

World Languages

ANTH 6 Linguistic Anthropology (4)
ELIT 44 International Literature (Fiction) (4)
LING 1 Introduction to Linguistics (4)
World Lang. World Language units in addition to Language Requirement above (5-15)

World Languages offered: Arabic, Cantonese, French, German, Hebrew, Hindi, Italian, Japanese, Korean, Mandarin, Persian, Russian, Spanish, Urdu, Vietnamese

Major Global Studies 53-68 units
GE General Education (31-42 units)
Electives Elective courses required when major units plus GE units total is less than 90
Total Units Required 90 units

De Anza College is
a smoke-free campus



Graphic and Interactive Design

Graphic Design

Certificate of Achievement [◇]

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

ARTS 4A	Beginning Drawing	3
ARTS 4B	Intermediate Drawing	3
ARTS 8	Two-Dimensional Design	3
ARTS 12	Design and Color	3
ARTS 53A	Introduction to Visual Technology	3
ARTS 55A	Graphic Design-Communication	3
	Total Units Required	18

Recommended

ARTS 4D Representational Drawing (3)

Graphic Design

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the Graphic Design Certificate of Achievement course requirements. 18
3. Complete the following:

ARTS 53B	Introduction to Visual Technology	3
ARTS 55B	Graphic Design-Communication	3
ARTS 55C	Graphic Design-Communication: Production Techniques	3
ARTS 56	Computer-Aided Graphic Design: Electronic Publishing	3
ARTS 57	Graphic Design-Typography	3
ARTS 63	Business Practices for Graphic Designers	3
ARTS 65	Graphic Design for the World Wide Web	3
ARTS 86	Electronic Illustration Techniques	3
	Total Units Required	42

Graphic Design

A.A. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major Complete the course requirements for Graphic Design Certificate of Achievement and Certificate of Achievement-Advanced 42 units

GE General Education (31-42 units)

Electives Elective courses required when major units plus GE units total is less than 90

Total Units Required90 units

Interactive Design

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the Graphic Design Certificate of Achievement course requirements. 18
3. Complete the following:

ARTS 53B	Introduction to Visual Technology	3
ARTS 55B	Graphic Design-Communication	3
ARTS 55C	Graphic Design-Communication: Production Techniques	3
ARTS 57	Graphic Design-Typography	3
ARTS 63	Business Practices for Graphic Designers	3
ARTS 65	Graphic Design for the World Wide Web	3
ARTS 85	Motion Graphics	3

Complete a minimum of six (6) units from the following: 6

ARTS 86	Electronic Illustration Techniques (3)	
ARTS 113A	Web Authoring Software (Dreamweaver) (4)	
ARTS 114A	Web Graphics/Animation Software (Flash) (3)	
CIS 89A	World Wide Web Page Development (3)	
F/TV 69	Principles of Animation: Character and Motion (3)	
F/TV 83A	Introduction to 2D Computer Animation (3)	
MUSI 51	Introduction to Electronic Music (3)	
PHTG 1	Basic Photography (3)	
	Total Units Required	45

Interactive Design

A.A. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major Complete the course requirements for Graphic Design Certificate of Achievement and the Interactive Design Certificate of Achievement-Advanced 45 units

GE General Education (31-42 units)

Electives Elective courses required when major units plus GE units total is less than 90

Total Units Required90 units

Health Technologies

Business Office Clerk

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Prerequisite/Corequisite		
HTEC 50	Introduction to Health Technologies	1
Requirements		
CAOS 70AA*	Elementary Keyboarding I	1 1/2
CAOS 90GA**	Computer Literacy (PC)	2
CAOS 91AM	Word Processing I (Word 2007) or CAOS 91AL	2
CAOS 110M	Database I (Access 2007) or CAOS 110L	2
CAOS 104O	Introduction to Filing	1
HTEC 60A	Basic Medical Terminology	3
HTEC 72	Medical Office Financial Procedures	1 1/2
HTEC 73	Medical Law and Ethics	1 1/2
HTEC 96	Health Technology Externship-Business Office Clerk	4
HTEC 101D	Skill Building in Medical Office Financial Procedures	1

* CAOS 70A may be substituted.

** May be substituted with another CAOS course of equal or greater unit value.

Total Units Required, Including Prerequisite20 1/2

Insurance and Coding

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Prerequisite/Corequisite	
HTEC 50	Introduction to Health Technologies 1
Requirements	
BIOL 54G*	Applied Human Anatomy and Physiology 1 1/2
BIOL 54H*	Applied Human Anatomy and Physiology 1 1/2
BIOL 54I*	Applied Human Anatomy and Physiology 1 1/2
BIOL 54J*	Applied Human Anatomy and Physiology 1 1/2
HTEC 60A	Basic Medical Terminology 3
HTEC 60G	Advanced Medical Terminology 2
HTEC 60H	Advanced Medical Terminology 2
HTEC 61	Medical Communications 1 1/2
HTEC 72	Medical Office Financial Procedures 1 1/2
HTEC 73	Medical Law and Ethics 1 1/2
HTEC 96	Health Technology Externship-Coding 4
HTEC 101C	Skill Building in Medical Communications and Transcription 1
HTEC 101D	Skill Building in Medical Office Financial Procedures 1
	Total Units Required, Including Prerequisite 24 1/2

* The BIOL 40A,B,C series may be substituted for the BIOL 54G, H, I, J series.

Recommended

CAOS 104O	Introduction to Filing (1)
CAOS 81H	10-Key and Electronic Calculator (1)
CAOS 90GA	Computer Literacy (PC) (2)
CAOS 70AA	Elementary Keyboarding I (1 1/2)
CAOS 84A	Business English I (2)
CAOS 91AM	Word Processing I (Word 2007) (2) or CAOS 91AL

Lab Assisting

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Prerequisites/Corequisites	
HTEC 50	Introduction to Health Technologies 1
<i>Student must present current American Red Cross or American Heart Association First Aid and Adult CPR Pro card to receive the certificate.</i>	
Requirements	
HTEC 60A	Basic Medical Terminology 3
HTEC 60G	Advanced Medical Terminology 2
HTEC 60H	Advanced Medical Terminology 2
HTEC 90G	Basic Patient Care 1 1/2
HTEC 64A	Basic Clinical Lab Procedures 1 1/2
HTEC 64B	Advanced Clinical Lab Procedures (Hematology) 1 1/2
HTEC 73	Medical Law and Ethics 1 1/2
HTEC 91	Medical Office Diagnostic Tests 1 1/2
HTEC 95	Health Technology Externship 3
HTEC 96	Health Technology Externship 4
HTEC 101A	Skill Building in Clinical Lab Procedures 1

HTEC 101B	Skill Building in Basic Patient Care	1
HTEC 101F	Skill Building in Medical Office Diagnostic Tests	1
	Total Units Required, Including Prerequisites	25 1/2

Recommended

CAOS 90GA	Computer Literacy (PC) (2)
CAOS 70AA	Elementary Keyboarding I (1 1/2)
HLTH 57A	First Aid/Workplace, Community and Wilderness (1)
HLTH 57E	CPR and Automated External Defibrillation (1/2)

Medical File Clerk

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Prerequisite/Corequisite	
HTEC 50	Introduction to Health Technologies 1
Requirements	
CAOS 70AA*	Elementary Keyboarding I 1 1/2
CAOS 90GA**	Computer Literacy (PC) 2
CAOS 91AM	Word Processing I (Word 2007) or CAOS 91AL 2
CAOS 110M	Database I (Access 2007) or CAOS 110L 2
CAOS 104O	Introduction to Filing 1
HTEC 60A	Basic Medical Terminology 3
HTEC 73	Medical Law and Ethics 1 1/2
HTEC 96	Health Technology Externship-Medical File Clerk 4

* CAOS 70A may be substituted.

** May be substituted with another CAOS course of equal or greater unit value.

Total Units Required, Including Prerequisite 18

Medical Reception

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Prerequisites/Corequisites	
HTEC 50	Introduction to Health Technologies 1
<i>Student must present current American Red Cross or American Heart Association First Aid and Adult CPR Pro card to receive the certificate.</i>	
Requirements	
CAOS 84A	Business English I 2
CAOS 176	Telephone Communications 1
HTEC 60A	Basic Medical Terminology 3
HTEC 61	Medical Communications 1 1/2
HTEC 68	Medical Reception Externship 2
HTEC 71	Medical Office Reception 1
HTEC 72	Medical Office Financial Procedures 1 1/2
HTEC 73	Medical Law and Ethics 1 1/2
HTEC 75	Medical Office Management 1 1/2
HTEC 101C	Skill Building in Medical Communications and Transcription 1
HTEC 101D	Skill Building in Medical Office Financial Procedures 1
HTEC 101G	Skill Building in Medical Office Management 1
	Total Units Required, Including Prerequisites 19

Recommended

HLTH 57A	First Aid/Workplace, Community and Wilderness (1)
HLTH 57E	CPR and Automated External Defibrillation (1/2)
CAOS 90GA	Computer Literacy (PC) (2)
CAOS 70AA	Elementary Keyboarding I (1 1/2)
CAOS 91AM	Word Processing I (Word 2007) (2) or CAOS 91AL

Medical Records Clerk

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Prerequisite/Corequisite	
HTEC 50	Introduction to Health Technologies 1
Requirements	
CAOS 70AA*	Elementary Keyboarding I 1 1/2
CAOS 90GA**	Computer Literacy (PC) 2
CAOS 91AM	Word Processing I (Word 2007) 2
	or CAOS 91AL
CAOS 110M	Database I (Access 2007) 2
	or CAOS 110L
CAOS 104O	Introduction to Filing 1
HTEC 60A	Basic Medical Terminology 3
HTEC 71	Medical Office Reception 1
HTEC 73	Medical Law and Ethics 1 1/2
HTEC 96	Health Technology Externship-Medical Records Clerk 4

* CAOS 70A may be substituted.

** May be substituted with another CAOS course of equal or greater unit value.

Total Units Required,
Including Prerequisite 19

Medical Transcription

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Prerequisite/Corequisite	
HTEC 50	Introduction to Health Technologies 1
Requirements	
BIOL 54G*	Applied Human Anatomy and Physiology 1 1/2
BIOL 54H*	Applied Human Anatomy and Physiology 1 1/2
BIOL 54I*	Applied Human Anatomy and Physiology 1 1/2
BIOL 54J*	Applied Human Anatomy and Physiology 1 1/2
HTEC 60A	Basic Medical Terminology 3
HTEC 60G	Advanced Medical Terminology 2
HTEC 60H	Advanced Medical Terminology 2
HTEC 61	Medical Communications 1 1/2
HTEC 73	Medical Law and Ethics 1 1/2
HTEC 74**	Medical Transcription with Advanced Terminology (1 1/2) (taken three times) 4 1/2
HTEC 96	Health Technology Externship-Medical Transcription 4
Total Units Required, Including Prerequisite 25 1/2	

* The BIOL 40A,B,C series may be substituted for the BIOL 54G, H, I, J series.

** This course may be taken three times (the student will be given different tapes to transcribe in each course).

Recommended

HTEC 101C	Skill Building in Medical Communications and Transcription (1)
CAOS 90GA	Computer Literacy (PC) (2)
CAOS 70AA	Elementary Keyboarding I (1 1/2)
CAOS 84A	Business English I (2)
CAOS 91AM	Word Processing I (Word 2007) (2) or CAOS 91AL

Phlebotomy Technician I

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Prerequisites/Corequisites	
HTEC 50	Introduction to Health Technologies 1
CAOS 70AA*	Elementary Keyboarding I 1 1/2
CAOS 90GA**	Computer Literacy (PC) 2
CAOS 91AM**	Word Processing I (Word 2007) 2
	or CAOS 91AL
HLTH 57A	First Aid in the Workplace, Community and Wilderness 1/2
HLTH 57E	CPR and Automated External Defibrillation 1/2

Student must present current American Red Cross or American Heart Association First Aid and Adult CPR Pro card to receive the certificate.

* CAOS 70A may be substituted.

** May be substituted with another CAOS course of equal or greater unit value.

Requirements	
HTEC 60A	Basic Medical Terminology 3
HTEC 64A	Basic Clinical Lab Procedures 1 1/2
HTEC 64B	Advanced Clinical Lab Procedures (Hematology) 1 1/2
HTEC 73	Medical Law and Ethics 1 1/2
HTEC 95	Health Technology Externship-Phlebotomy 3
HTEC 101A	Skill Building in Clinical Lab Procedures 1
Total Units Required, Including Prerequisites 19	

The Phlebotomy Technician I program has been approved by the California Department of Public Health-Laboratory Field Services.



Ø This certificate was submitted for state approval.
Please check with the department for status.

Medical Assisting

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Prerequisites/Corequisites

HTEC 50 Introduction to Health Technologies 1

Student must present current American Red Cross or American Heart Association First Aid and Adult CPR Pro card to receive the certificate.

Requirements

ACCT 1A Financial Accounting I 5

BIOL 54G* Applied Human Anatomy and Physiology 1 1/2

BIOL 54H* Applied Human Anatomy and Physiology 1 1/2

BIOL 54I* Applied Human Anatomy and Physiology 1 1/2

BIOL 54J* Applied Human Anatomy and Physiology 1 1/2

CAOS 84A Business English I 2

CAOS 104O Introduction to Filing 1

CAOS 110M Database I (Access 2007) 2

HTEC 60A Basic Medical Terminology 3

HTEC 60G Advanced Medical Terminology 2

HTEC 60H Advanced Medical Terminology 2

HTEC 61 Medical Communications 1 1/2

HTEC 64A Basic Clinical Lab Procedures 1 1/2

HTEC 64B Advanced Clinical Lab Procedures (Hematology) 1 1/2

HTEC 68 Medical Reception Externship 2

HTEC 71 Medical Office Reception 1

HTEC 72 Medical Financial Procedures 1 1/2

HTEC 73 Medical Law and Ethics 1 1/2

HTEC 74 Medical Transcription with Advanced Terminology 1 1/2

HTEC 75 Medical Office Management 1 1/2

HTEC 90G Basic Patient Care 1 1/2

HTEC 90H Medical Office Sterile Techniques 1 1/2

HTEC 91 Medical Office Diagnostic Tests 1 1/2

HTEC 93 Pharmacology for Medical Assistants 1 1/2

HTEC 94 Administration of Medications 1

HTEC 95 Health Technology Externship-Medical Assisting 3

HTEC 96 Health Technology Externship-Medical Assisting 4

HTEC 110 Health Technologies Employment Preparation 1 1/2

Total Units Required, Including Prerequisites 53

* The BIOL 40A,B,C series may be substituted for the BIOL 54G, H, I, J series.

Recommended

CAOS 90GA Computer Literacy (PC) (2)

CAOS 70AA Elementary Keyboarding I (1 1/2)

CAOS 91AM Word Processing I (Word 2007) (2)

or CAOS 91AL

CAOS 81H 10-Key and Electronic Calculator (1)

HTEC 101A-G Skill Building Labs (1 unit each)

HLTH 57A First Aid/Workplace, Community and Wilderness (1/2)

HLTH 57E CPR and Automated External Defibrillation (1/2)

Medical Assisting

A.A. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Student must present current American Red Cross or American Heart Association First Aid and Adult CPR Pro card for the degree.

Major Complete the course requirements for the Certificate of Achievement-Advanced 53 units

GE General Education (31-42 units)

Electives Elective courses required when major units plus GE units total is less than 90

Total Units Required 90 units

Recommended

PSYC 1^ General Psychology (4)

SOC 1^ Introduction to Sociology (4)

CAOS 81H 10-Key and Electronic Calculator (1)

CAOS 176 Telephone Communications (1)

^ Any Psychology or Sociology course will be acceptable.

Units may apply toward GE requirement.

Medical Secretary

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Prerequisite/Corequisite

HTEC 50 Introduction to Health Technologies 1

Requirements

ACCT 1A Financial Accounting I 5

BIOL 54G* Applied Human Anatomy and Physiology 1 1/2

BIOL 54H* Applied Human Anatomy and Physiology 1 1/2

BIOL 54I* Applied Human Anatomy and Physiology 1 1/2

BIOL 54J* Applied Human Anatomy and Physiology 1 1/2

CAOS 81H 10-Key and Electronic Calculator 1

CAOS 84A Business English I 2

CAOS 104O Introduction to Filing 1

CAOS 110M Database I (Access 2007) 2

or CAOS 110L

HTEC 60A Basic Medical Terminology 3

HTEC 60G Advanced Medical Terminology 2

HTEC 60H Advanced Medical Terminology 2

HTEC 61 Medical Communications 1 1/2

HTEC 68 Medical Reception Externship 2

HTEC 71 Medical Office Reception 1

HTEC 72 Medical Office Financial Procedures 1 1/2

HTEC 73 Medical Law and Ethics 1 1/2

HTEC 74 Medical Transcription with Advanced Terminology 1 1/2

HTEC 75 Medical Office Management 1 1/2

HTEC 96 Health Technology Externship-Medical Secretary 4

HTEC 101C** Skill Building in Medical Communications and Transcription (1,1) 2

HTEC 101D Skill Building in Medical Office Financial Procedures 1

HTEC 101G Skill Building in Medical Office Management 1

Total Units Required, Including Prerequisite 43 1/2

* The BIOL 40A,B,C series may be substituted for the BIOL 54G, H, I, J series.

** This course must be taken twice.

Recommended

CAOS 90GA	Computer Literacy (PC) (2)
CAOS 70AA	Elementary Keyboarding I (1 1/2)
CAOS 91AM	Word Processing I (Word 2007) (2) or CAOS 91AL
CAOS 176	Telephone Communications (2)

Intercultural Studies

Certificate of Achievement [◇]

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

ICS 4	Race, Ethnicity and Social Stratification	4
ICS 7	Intercultural Communication	4
ICS 9	Studying Race and Ethnicity: Theories and Methods	4

Complete a minimum of 12 units from the following:

ICS 8	Women of Color in the USA (4)	12
ICS 10	An Introduction to African American Studies (4)	
ICS 11	The Roots of the African American Experience (4)	
ICS 20	Asian American Experiences in History (4)	
ICS 22	Contemporary Asian American Communities (4)	
ICS 29	Cultural Pluralism and American Law and Justice (4)	
ICS 30	Introduction to Chicano Studies (4)	
ICS 31	Chicano Culture (4)	
ICS 32	Chicano History (4)	
ICS 43	American Indian History (4)	
ICS 44	American Indian Religious and Philosophical Thought (4)	
	Total Units Required	24

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

ICS 4	Race, Ethnicity and Social Stratification	4
ICS 5	History of Art: Multicultural Arts in the U.S.	4
ICS 7	Intercultural Communication	4
ICS 9	Studying Race and Ethnicity: Theories and Methods	4

ICS Electives	Complete eight (8) units of ICS electives listed below (unduplicated by GE Requirements)	8
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Complete one (1) of the three (3) options below: 16

Option 1: General Multicultural Background

Complete 16 units from three (3) or more of the following categories.

Option 2: Two Ethnic Areas

Complete 16 units from two (2) of the following categories.

Option 3: One Ethnic Area

Complete 16 units from one (1) of the following categories.

African American

ICS 10	An Introduction to African American Studies (4)
ICS 11	The Roots of the African American Experience (4)
ICS 12	An Introduction to African American Literature (4)
ICS 14	Cinema and the African American (4) <i>also listed as F/TV 48</i>
ICS 16A	History of Africa to 1800 (4)
ICS 16B	History of Africa from 1800 to Present (4)
ICS 18A	African American History to 1865 (4)
ICS 18B	African American History since 1865 (4)

Asian American

INTL 19A	History of Asian Civilization: China and Japan (through 18th Century) (4) <i>also listed as HIST 19A</i>
INTL 19B	History of Asian Civilization: China and Japan (through 19th and 20th Centuries) (4) <i>also listed as HIST 19B</i>
ICS 20	Asian American Experiences in History (4)
ICS 22	Contemporary Asian American Communities (4)

Chicano

ICS 30	Introduction to Chicano Studies (4)
ICS 31	Chicano Culture (4)
ICS 32	Chicano History (4)
ICS 33	Chicanos and the Arts (4)
ICS 35	Chicano Literature (4)

Latin American

ICS 38A	Colonial Latin American History (4)
ICS 38B	Modern Latin American History (4)

Multicultural

ICS 3A	World History (4)
ICS 3B	World History (4)
ICS 3C	World History (4)
ICS 8	Women of Color in the USA (4)
ICS 17	Critical Consciousness and Social Change (4)
ICS 29	Cultural Pluralism and American Law and Justice (4)
ICS 77	Special Projects in Intercultural Studies (1)
ICS 78	Special Group Projects in Intercultural Studies (1/2)

Native American

ICS 41	American Indians Today (4)
ICS 42	American Indians in California (4)
ICS 43	American Indian History (4)
ICS 44	American Indian Religious and Philosophical Thought (4)
ICS 45	Survey of American Indian Arts (4)
ICS 46	American Indian Literature (4)
	Total Units Required 40

A.A. Degree

For the major, complete all requirements for the Certificate of Achievement-Advanced in Intercultural Studies **except** where 16 units are required in Options 1, 2, and 3 above, complete 20 units. Also meet the A.A./A.S. degree requirements as specified on page 52.

Major	Requirements for Intercultural Studies Certificate of Achievement-Advanced plus four (4) additional units	44 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

[◇] This certificate was submitted for state approval.
Please check with the department for status.

Internet Literacy and Research

Skills Certificate

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

CAOS 94	Introduction to Internet and World Wide Web or CAOS 94	1
LCEN 50	Introduction to Online Research	1
LCEN 53	Advanced Internet Search Techniques	1
LCEN 55	Emerging Internet Technologies	1
<i>Complete two (2) courses from the following:</i>		3-4
LCEN 51	Business Resources on the World Wide Web (1)	
CAOS 113I	Web Authoring Software I (Dreamweaver) (2)	
CAOS 113Q	Web Authoring Software II (Dreamweaver) (2)	
Total Units Required		7-8

Journalism

A.A. Degree

Prerequisite

EWRT 1A Composition and Reading

1. Meet the A.A./A.S. degree requirements as specified on page 52.
2. Complete the following:

<i>Complete one (1) course from:</i>		5
EWRT 1B	Reading, Writing, and Research (5)	
EWRT 2	Critical Reading, Writing, and Thinking (5)	

Complete the following:

JOUR 2	Mass Communication and Its Impact on Society	4
JOUR 21A	News Writing and Reporting	3
JOUR 21B	Feature Writing and Reporting	3
JOUR 61	Newspaper and Student Media Staff	3
PHTG 1	Basic Photography	3

<i>Complete one (1) course from:</i>		1-4
JOUR 77 series	JOUR 77W, 77X, 77Y, 77Z Special Projects in Journalism (1-4)	

<i>Complete one (1) course from:</i>		1-4
JOUR 78 series	JOUR 78W, 78X, 78Y, 78Z Special Topics in Journalism (1-4)	

Complete a minimum of four (4) units from the following:

ARTS 55A	Graphic Design-Communication (3)	
ARTS 65	Graphic Design for the World Wide Web (3)	
CIS 89A	World Wide Web Page Development (3)	
EWRT 65	Literary Magazine (1) or JOUR 65W	
EWRT 65X	Literary Magazine (2) or JOUR 65X	
F/TV 20	Basic Digital Film/Video Production (4)	
ICS 7	Intercultural Communication (4) or SPCH 7	
ICS 29	Cultural Pluralism and American Law and Justice (4)	

LCEN 50	Introduction to Online Research (1)	
POLI 1	American Government and Politics (4)	
SPCH 9	Argumentation: Analysis of Oral and Written Communication (5)	
TWRT 61	Introduction to Technical Writing (5)	
Major	Journalism	27-33 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
Total Units Required		90 units

Leadership and Social Change

Certificate of Achievement ^o

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Complete:

SOSC 17	Grassroots Democracy: Leadership and Power or WMST 17	4
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Leadership Skills

Complete one (1) course from the following: 4-5

BUS 65	Leadership (5)	
E S 66	Environmental Leadership (4)	
E S 67	Environmental Team-Building (4)	
ICS 55	Civic Leadership for Community Empowerment (4)	

Understanding Social Change

Complete a minimum of four (4) units from the following: 4

ICS 17	Critical Consciousness and Social Change (4) or PHIL 17	
POLI 15	Grassroots Democracy: Race, Culture and Liberation (4) or WMST 15	
POLI 16	Grassroots Democracy: Social Movements Since the 1960s (4) or WMST 16	
SOC 5	Sociology of Globalization and Social Change (4)	

Complete a minimum of six (6) units from the following: 6

COOP 53 series	COOP 53W, 53X, 53Y, 53Z Occupational Volunteer Community Service Learning Internship (2-8)	
COOP 73 series	COOP 73W, 73X, 73Y, 73Z General Volunteer Service Learning Community Internship (2-8)	
ICS 80 series	ICS 80, 80W, 80X, 80Y, 80Z Community Based Learning in Intercultural Studies (1/2-4)	
LART 80 series	LART 80, 80W, 80X, 80Y, 80Z Community Based Learning in Language Arts (1/2-4)	
SOSC 80 series	LART 80, 80W, 80X, 80Y, 80Z Community Based Learning in Social Sciences (1/2-4)	
SPCH 60	Facilitating Collaborative Communication (4)	
Total Units Required		18-19

Liberal Arts

Complete a minimum of 27 units from one (1) of the four (4) emphasis areas below in addition to the A.A. degree General Education requirements. Courses used for the Liberal Arts 27-unit major requirement may **not** be used to satisfy the General Education requirements. See the A.A./A.S. degree requirements as specified on page 52.

Students are limited to earning one (1) Liberal Arts degree.

A.A. Degree

Arts and Letters Emphasis

Arabic 1, 2, 3, 4, 5, 6

Arts 1A, 1B, 2A, 2B, 2C, 2D, 2F, 2G, 2H, 2J, 2K, 2L, 3TC, 3TD, 3TE, 4A, 4B, 4C, 4D, 8, 10A, 10B, 12, 14A, 14B, 14C, 15A, 15B, 15C, 16A, 16B, 16C, 17, 18A, 18B, 18C, 18D, 18E, 19G, 19H, 19I, 19J, 19K, 19M, 19N, 20, 20X, 20Y, 20Z, 37A, 37B, 37C, 50, 51, 53A, 53B, 55A, 55B, 55C, 56, 57, 58A, 58B, 58C, 59, 63, 65, 70, 71, 72, 85, 86

Cantonese 1, 2, 3

Dance 22, 22K, 22L, 23A, 23B, 23H, 23L, 23M, 24A, 24B, 24C, 25A, 27A, 27B, 27C, 27D, 37A, 37B, 38A, 49A

Education 58

English as a Second Language 6

English Literature 1, 3, 4, 5, 6, 10, 11, 12, 17, 19, 20, 21, 22, 24, 25, 26, 39, 44, 46A, 46B, 46C, 48A, 48B, 48C, 58

English Writing 1B, 1C, 2, 30, 40, 41, 42, 50

Environmental Studies 3

Film and Television 1, 2A, 2AW, 2B, 2BW, 20, 41, 42, 43, 48, 75K, 85

French 1, 2, 3, 4, 5, 6, 10

German 1, 2, 3, 4, 5, 6

Hebrew 1, 2, 3

Hindi 1, 2, 3

History 4A, 4B, 4C, 4D

Humanities 1, 2, 5, 6, 7, 9, 10, 13, 14A, 14B, 14C, 15, 16, 18, 20

Intercultural Studies 5, 11, 12, 14, 24, 33, 35, 44, 45, 46

International Studies 10, 11, 13, 15, 21, 22, 23, 24, 34

Italian 1, 2, 3, 4

Japanese 1, 2, 3, 4, 5, 6

Journalism 2, 21A, 21B

Korean 1, 2, 3, 4, 5, 6

Linguistics 1

Mandarin 1, 2, 3, 4, 5, 6

Music 1A, 1B, 1C, 1D, 3A, 3B, 3C, 4A, 4B, 4C, 5A, 8, 9, 10A, 10B, 12A, 12B, 12C, 13A, 13B, 14A, 14B, 14C, 15A, 15B, 15C, 18, 20, 21, 22, 24, 25G, 25H, 25J, 25K, 25L, 25M, 25VJ, 27A, 29, 31A, 31B, 31C, 32A, 34, 42, 45, 46, 48, 51, 53, 56, 58A, 58B

Persian 1, 2, 3, 4, 5, 6

Philosophy 1, 2, 3, 4, 7, 8, 9, 14A, 14B, 14C, 20A, 20B, 20C, 24, 30, 49

Photography 1, 2, 3, 4, 5, 7, 20, 21, 52, 52X, 54, 56A, 56B, 57A, 57B, 58, 58A, 58B

Physical Education (Dance) 22, 22K, 22L, 23A, 23B, 23H, 23L, 23M, 24A, 24B, 24C, 25A, 37A, 37B, 49A

Russian 1, 2, 3

Sign Language 1, 2, 3

Spanish 1, 2, 3, 4, 5, 6

Speech Communication 1, 8, 9, 10, 15

Theatre Arts 1, 20A, 20B, 20C

Urdu 1, 2, 3, 4, 5, 6

Vietnamese 1, 2, 3, 4, 5, 6

Women's Studies 3C, 21, 49

Major	Arts and Letters Emphasis	27 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

Business and Computer Information

Systems Emphasis

Accounting 1A, 1B, 1C, 51A, 51B, 52, 58, 64, 66, 67A, 67B, 68, 70, 75, 76, 86, 87AH-87AV, 88, 92

Business 10, 18, 21, 51, 52, 54, 55, 56, 57, 58, 59, 60, 61, 65, 67A, 67B, 69, 70, 80, 85, 87, 88, 89, 90, 91, 95A, 96A

Computer Applications and Office Systems 94

Computer Information Systems 2, 3, 14A, 14B, 14C, 15AG, 15BG, 15C, 18A, 18B, 18C, 21JA, 21JB, 26A, 26B, 27, 28, 29, 30A, 30B, 31, 33A, 35A, 35B, 50, 53, 57, 61A, 61B, 63, 64A, 64B, 64C, 64D, 66, 67A, 67B, 73, 74, 75A, 75B, 75C, 75D, 75E, 76, 79, 86, 89A, 89C, 94

Economics 1, 2

English Writing 61

Learning Center 50, 51, 53, 55

Math 1A, 1B, 1C, 1D, 10, 11, 12

Paralegal Studies 18, 52A

Real Estate 50, 51, 52A, 53, 54, 56A, 59, 61

Speech Communication 70

Technical Writing 61

Major	Business and Computer Information Systems Emphasis	27 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

Science, Math and Engineering Emphasis

Anthropology 1, 1L

Astronomy 4, 10

Biology 5, 6A, 6B, 6C, 8, 10, 11, 13, 15, 26, 40A, 40B, 40C, 45, 54G, 54H, 54I, 54J

Business 88

Chemistry 1A, 1B, 1C, 10, 12A, 12B, 12C, 30A, 30B, 50

Computer Applications and Office Systems 94

Computer Information Systems 2, 3, 14A, 14B, 14C, 15AG, 15BG, 15C, 18A, 18B, 18C, 21JA, 21JB, 26A, 26B, 27, 28, 29, 30A, 30B, 31, 33A, 35A, 35B, 50, 53, 56G, 57, 61A, 61B, 63, 64A, 64B, 64C, 64D, 66, 67A, 67B, 73, 74, 75A, 75B, 75C, 75D, 75E, 76, 79, 89A, 89C, 94

Education 46

Engineering 2, 10, 35, 37, 45

Environmental Science 1, 1L, 19, 20, 21, 30, 81

Environmental Studies 2, 56, 58

Geography 1, 5

Geology 10, 20

Health 21, 51

Math 1A, 1B, 1C, 1D, 2A, 2B, 10, 11, 12, 22, 23, 41, 43, 44, 46, 49A, 49B, 52

Meteorology 10, 10L

Nutrition 10

Physical Education 30, 51

Physics 2A, 2B, 2C, 4A, 4B, 4C, 4D, 10, 50

Major	Science, Math and Engineering Emphasis	27 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

Social and Behavioral Sciences Emphasis

Administration of Justice 1, 3, 5, 11, 25, 29, 50, 51, 53, 54, 55, 56, 60, 61, 62, 73, 74A, 75, 78, 90A, 95

Anthropology 2, 3, 4, 6, 69

Arts 3TC

Business 21, 80

Career Life Planning 70, 75

Child Development 10G, 10H, 12, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59G, 59H, 60, 61, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 80, 90

Computer Information Systems 2

Economics 1, 2

Education 1, 56, 73, 74

Environmental Studies 1, 2, 3

Film and Television 10

Geography 1, 4, 5, 10

History 2, 3A, 3B, 3C, 4A, 4B, 4C, 4D, 7A, 7B, 9, 10, 11, 16A, 16B, 17A, 17B, 17C, 18A, 18B, 19A, 19B, 28

Human Development 10, 20, 50

Humanities 17

Intercultural Studies 3A, 3B, 3C, 4, 7, 8, 9, 10, 11, 16A, 16B, 17, 18A, 18B, 20, 22, 28, 29, 30, 31, 32, 37, 38A, 38B, 41, 42, 43, 44, 55

International Studies 5, 8, 19A, 19B, 30, 33

Journalism 2

Math 10

Paralegal Studies 3, 11, 54, 74A, 75, 90A, 95

Philosophy 10, 17

Political Science 1, 2, 3, 5, 10, 11, 13, 15, 16, 33, 75, 95

Psychology 1, 2, 3, 4, 5, 6, 8, 9, 10G, 10H, 12, 14, 15, 24, 60, 63, 67, 74A

Social Sciences 15, 16, 17, 52G, 52H, 52I, 52J

Sociology 1, 5, 8, 15, 20, 25, 28, 35, 50, 51, 54, 73

Speech Communication 7, 16, 60, 70

Women's Studies 1, 3C, 8, 9, 12, 15, 16, 17, 28, 52G, 52H, 52I, 52J

Major	Social and Behavioral Sciences Emphasis	27 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

Management

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

BUS 10	Introduction to Business	5
BUS 57	Human Resource Management	4
BUS 65	Leadership	5
BUS 96A	Principles of Management	5

Complete one (1) course from the following: 5

BUS 18	Business Law I (5)	
BUS 52	Supervision in the Public Sector (5)	
BUS 55	Introduction to Entrepreneurship (5)	
BUS 56	Human Relations in Business (5)	
BUS 60	International Business Management (5)	
	Total Units Required	24

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.

2. Complete the following:

BUS 10	Introduction to Business	5
BUS 18	Business Law I	5
BUS 21	Business and Society	5
BUS 56	Human Relations in Business	5
BUS 57	Human Resource Management	4
BUS 60	International Business Management	5
BUS 65	Leadership	5
BUS 96A	Principles of Management	5

Complete a minimum of 14 units from the following: 14

BUS 54	Business Mathematics (5)
BUS 55	Introduction to Entrepreneurship (5)
BUS 58	The Business Plan (4)
BUS 70	Principles of E-Business (5)
BUS 87	Introduction to Selling (4)
BUS 90	Principles of Marketing (5)
ACCT 1A	Financial Accounting I (5)
COOP 51 series	COOP 51, 51W, 51X

Occupational Work Experience (1-4)

Note: Four (4) units in COOP courses may apply.

ECON 1 Principles of Macroeconomics (4)

SPCH 16 Interpersonal Communication (4)

Major Management 53 units

GE General Education (31-42 units)

Electives Elective courses required when major units plus GE units total is less than 90

Total Units Required 90 units

Manufacturing and Computer

Numerical Control (CNC)

CAD/CAM–Mastercam

Skills Certificate

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

Complete one (1) course from: 4 1/2

MCNC 76A - 76E series (introductory) (4 1/2 each)

CAD/CAM Based CNC Programming Using Mastercam

Complete one (1) course from: 4 1/2

MCNC 76F - 76K series (4 1/2 each)

CAD/CAM Based CNC Programming Using Mastercam

Complete one (1) course from: 4 1/2

MCNC 76L - 76Q series (4 1/2 each)

Advanced CAD/CAM Based CNC Programming Using

Mastercam

Total Units Required 13 1/2

CNC Machine Operator

Skills Certificate

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

MCNC 71	Introduction to Machining and CNC Processes	4 1/2
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MCNC 75A	Introduction to Computer-Aided Numerical Control (CNC) Programming and Operation: Mills	4 1/2
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MCNC 75B	Computer-Aided Numerical Control (CNC) Programming and Operation: Lathes, Advanced Mills	4 1/2
	Total Units Required	13 1/2

CNC Machinist

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Complete two (2) units from: 2

MCNC 56	Special Projects in Manufacturing and CNC (1)	
MCNC 56X	Special Projects in Manufacturing and CNC (2)	

Complete the following:

MCNC 64	Manufacturing Materials and Processes	4
MCNC 71	Introduction to Machining and CNC Processes	4 1/2
MCNC 72	Applied Geometric Inspection Dimensioning and Tolerancing; Coordinate Measuring Machines	3
MCNC 75A	Introduction to Computer-Aided Numerical Control (CNC) Programming and Operation: Mills	4 1/2
MCNC 75B	Computer-Aided Numerical Control (CNC) Programming and Operation: Lathes, Advanced Mills	4 1/2
MCNC 75C	CNC Lathes and Horizontal Machining Centers; Programming and Operation, 4th Rotary Axis, Fixture Design	4 1/2

Complete one (1) course from: 4 1/2

MCNC 76A - 76E series (introductory) (4 1/2 each)

CAD/CAM Based CNC Programming Using Mastercam

Complete one (1) course from: 4 1/2

MCNC 76F - 76K series (4 1/2 each)

CAD/CAM Based CNC Programming Using Mastercam

Complete one (1) course from: 4 1/2

MCNC 76L - 76Q series (4 1/2 each)

Advanced CAD/CAM Based CNC Programming Using Mastercam

Total Units Required 40 1/2

CNC Machinist

A.S. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major	Complete the course requirements for CNC Machinist Certificate of Achievement-Advanced	40 1/2 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

CNC Research and Development Machinist

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

MCNC 64	Manufacturing Materials and Processes	4
MCNC 71	Introduction to Machining and CNC Processes	4 1/2
MCNC 72	Applied Geometric Inspection Dimensioning and Tolerancing; Coordinate Measuring Machines	3
MCNC 75A	Introduction to Computer-Aided Numerical Control (CNC) Programming and Operation: Mills	4 1/2
MCNC 75B	Computer-Aided Numerical Control (CNC) Programming and Operation: Lathes, Advanced Mills	4 1/2
MCNC 75C	CNC Lathes and Horizontal Machining Centers; Programming and Operation, 4th Rotary Axis, Fixture Design	4 1/2
MCNC 77	Machining Practices Using Conventional Machine Tools, Tool Design, Abrasive Machining	4 1/2
AUTO 53A	Automotive Mechanisms	3
AUTO 53B	Automotive Electromechanical Systems	2

Complete one (1) course from: 4 1/2

MCNC 76A - 76E series (introductory) (4 1/2 each)

CAD/CAM Based CNC Programming Using Mastercam

Complete one (1) course from: 4 1/2

MCNC 76F - 76K series (4 1/2 each)

CAD/CAM Based CNC Programming Using Mastercam

Complete one (1) course from: 4 1/2

MCNC 76L - 76Q series (4 1/2 each)

Advanced CAD/CAM Based CNC Programming Using Mastercam

Total Units Required 48

CNC Research and Development Machinist

A.S. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major	Complete the course requirements for CNC Research and Development Machinist Certificate of Achievement-Advanced	48 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

Manufacturing Systems Technician

Certificate of Achievement[◇]

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

AUTO 53A	Automotive Mechanisms	3
AUTO 53B	Automotive Electromechanical Systems	2
MCNC 64	Manufacturing Materials and Processes	4
MCNC 71	Introduction to Machining and CNC Processes	4 1/2
MCNC 75A	Introduction to Computer-Aided Numerical Control (CNC) Programming and Operation: Mills	4 1/2
MCNC 77	Machining Practices Using Conventional Machine Tools, Tool Design, Abrasive Machining	4 1/2
	Total Units Required	22 1/2

[◇] This certificate was submitted for state approval.
Please check with the department for status.

Product Model Making

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

ARTS 10A	Three-Dimensional Design	3
ARTS 10B	Intermediate Three-Dimensional Design	3
MCNC 64	Manufacturing Materials and Processes	4
MCNC 71	Introduction to Machining and CNC Processes	4 1/2
MCNC 75A	Introduction to Computer-Aided Numerical Control (CNC)	4 1/2
MCNC 75B	Programming and Operation: Mills Computer-Aided Numerical Control (CNC) Programming and Operation: Lathes, Advanced Mills	4 1/2

Complete one (1) course from one (1) of these series: 4

CDI 60A-F SolidWorks (Beginning) (4)

CDI 70A-F Pro/ENGINEER (Beginning) (4)

Complete one (1) course from: 4 1/2

MCNC 76A - 76E series (introductory) (4 1/2 each)

CAD/CAM Based CNC Programming Using Mastercam

Complete one (1) course from: 4 1/2

MCNC 76F - 76K series (4 1/2 each)

CAD/CAM Based CNC Programming Using Mastercam

Complete one (1) course from: 4 1/2

MCNC 76L - 76Q series (4 1/2 each)

Advanced CAD/CAM Based CNC Programming Using

Mastercam

Total Units Required 41

Product Model Making

A.S. Degree

Meet the A.A./A.S. degree requirements as specified on page 52.

Major Complete the course requirements for the Product Model Making Certificate of Achievement-Advanced 41 units

GE General Education (31-42 units)

Electives Elective courses required when major units plus GE units total is less than 90

Total Units Required 90 units

Marketing Management

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

BUS 10	Introduction to Business	5
BUS 87	Introduction to Selling	4
BUS 89	Advertising	5
BUS 90	Principles of Marketing	5

Complete one (1) course from the following:

ACCT 1A	Financial Accounting I (5)	5
BUS 18	Business Law I (5)	
BUS 54	Business Mathematics (5)	
BUS 56	Human Relations in Business (5)	
BUS 59	Promoting Your Small Business (5)	
BUS 60	International Business Management (5)	
BUS 65	Leadership (5)	
BUS 70	Principles of E-Business (5)	
BUS 96A	Principles of Management (5)	
Total Units Required		24

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

BUS 10	Introduction to Business	5
BUS 87	Introduction to Selling	4
BUS 89	Advertising	5
BUS 90	Principles of Marketing	5

Complete five (5) courses from the following: 25

ACCT 1A	Financial Accounting I (5)	
BUS 18	Business Law I (5)	
BUS 54	Business Mathematics (5)	
BUS 56	Human Relations in Business (5)	
BUS 59	Promoting Your Small Business (5)	
BUS 60	International Business Management (5)	
BUS 65	Leadership (5)	
BUS 70	Principles of E-Business (5)	
BUS 96A	Principles of Management (5)	
Total Units Required		44

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.

2. Complete the following:

ACCT 1A	Financial Accounting I	5
BUS 10	Introduction to Business	5
BUS 18	Business Law I	5
BUS 54	Business Mathematics	5
BUS 60	International Business Management	5
BUS 87	Introduction to Selling	4
BUS 89	Advertising	5
BUS 90	Principles of Marketing	5
BUS 96A	Principles of Management	5

Complete a minimum of nine (9) units from the following: 9

BUS 21	Business and Society (5)	
BUS 56	Human Relations in Business (5)	
BUS 57	Human Resource Management (4)	
BUS 59	Promoting Your Small Business (5)	
BUS 65	Leadership (5)	
BUS 70	Principles of E-Business (5)	
BUS 85	Business Communication (3)	
SPCH 16	Interpersonal Communication (4)	
COOP 51 series	COOP 51, 51W, 51X	
Occupational Work Experience (1-4)		
Note: Up to four (4) units of COOP may apply.		

Major Marketing Management 53 units

GE General Education (31-42 units)

Electives Elective courses required when major units plus GE units total is less than 90
Total Units Required 90 units

Massage Therapy

Certificate of Achievement

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Students must present current First Aid and CPR cards to receive a certificate in Massage Therapy.

BIOL 40A	Human Anatomy and Physiology (84 hours)	5
P E 11	Stretching (24 hours)	1/2
P E 53	Stress Management (24 hours)	2
P E 54	Introduction to Massage (72 hours)	4
P E 54A	Intermediate Massage (60 hours)	3
P E 54B	Sports Massage (60 hours)	3
P E 54C	Advanced Massage Skills (72 hours)	4
P E 54D	Clinical Practicum in Massage Therapy (84 hours)	3

Complete a minimum of 36 applied massage ("hands on") internship hours.

P E 54T,U,V	Internship in Massage Therapy courses (1, 2, 3 units – 36, 72, 108 hours)	1
	Total Units Required (516 hours minimum)	25 1/2

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

Students must present current First Aid and CPR cards to receive a certificate in Massage Therapy.

Complete the course and internship requirements for the Certificate of Achievement. 25 1/2

BIOL 40B	Human Anatomy and Physiology (84 hours)	5
P E 54E	Table Shiatsu (72 hours)	4
P E 35	Care and Prevention/ Athletic Injuries (72 hours)	4

Complete a total of 108 hours/three (3) units from the "Internship in Massage Therapy" course series. Thirty six (36) hours/one (1) unit must be in applied massage (completing the Certificate of Achievement internship meets this requirement). The additional 72 hours/two (2) units may be either in applied massage or teaching assistant internships.

P E 54T,U,V	Internship in Massage Therapy courses (1, 2, 3 units - 36, 72, 108 hours)	
	additional hours = 72 additional units =	2

Complete a minimum of four (4) units from the following: 4

BUS 55	Introduction to Entrepreneurship (5) (60 hours)	
NUTR 62	Nutrition and Athletic Performance (2) (24 hours)	
P E 2Q*	Tai Chi (1/2) (24 hours)	
P E 54F	Introduction to Chair Massage (3) (60 hours)	
P E 70A	Orientation to Lifetime Fitness (2) (24 hours)	
P E 71*	Lifetime Wellness and Fitness Center Laboratory (1) (36 hours)	
P E 77, 77X, 77Y	Special Projects in Physical Education** (1/2, 1, 1 1/2 units - 18, 36, 54 hours)	
	Total Units Required (876 hours minimum)	44 1/2

* This repeatable course may only apply once.

** Special Projects in Physical Education for the Massage Therapy program need approval from the Massage Program Coordinator.

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.
2. Complete the following:

Students must present current First Aid and CPR cards to receive a degree in Massage Therapy.

Complete the course and internship requirements for the Certificate of Achievement. 25 1/2

BIOL 40B	Human Anatomy and Physiology (84 hours)	5
P E 54E	Table Shiatsu (72 hours)	4
P E 54F	Chair Massage (60 hours)	3
P E 35	Care and Prevention/ Athletic Injuries (72 hours)	4

Complete a total of 144 hours/four (4) units from the "Internship in Massage Therapy" course series. Thirty six (36) hours/one (1) unit must be in applied massage (completing the Certificate of Achievement internship meets this requirement). The additional 108 hours/three (3) units may be either in applied massage or teaching assistant internships.

P E 54T,U,V	Internship in Massage Therapy courses (1, 2, 3 units - 36, 72, 108 hours)	
	additional hours = 108 additional units =	3

Complete a minimum of 7 1/2 units from the following: 7 1/2

BIOL 40C	Human Anatomy and Physiology (5) (84 hours)	
BUS 55	Introduction to Entrepreneurship (5) (60 hours)	
NUTR 62	Nutrition and Athletic Performance (2) (24 hours)	
P E 2Q*	Tai Chi (1/2) (24 hours)	
P E 70A	Orientation to Lifetime Fitness (2) (24 hours)	
P E 71*	Lifetime Wellness and Fitness Center Laboratory (1) (36 hours)	
P E 77, 77X, 77Y	Special Projects in Physical Education** (1/2, 1, 1 1/2 units - 18, 36, 54 hours)	

* This repeatable course may only apply once.

** Special Projects in Physical Education for the Massage Therapy program need approval from the Massage Program Coordinator.

Major	Massage Therapy	52 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required (1,020 hours minimum)	90 units

Medical Assisting

(See Health Technologies)

Medical Laboratory Technology

Certificate of Achievement-Advanced

Note: to receive the Medical Laboratory Technology Certificate of Achievement-Advanced, the student must have an A.A./A.S. degree or higher.

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following prerequisites and requirements with a "C" grade or better.

Prerequisites

State of California Phlebotomy Certification

Complete one (1) of the following sequences: 15-18

BIOL 40A	Human Anatomy and Physiology (5)
BIOL 40B	Human Anatomy and Physiology (5)
BIOL 40C	Human Anatomy and Physiology (5)

or

BIOL 6A	Form and Function in the Biological World (6)
BIOL 6B	Cell and Molecular Biology (6)
BIOL 6C	Evolution and Ecology (6)

Complete the following:

BIOL 26	Introductory Microbiology	6
CHEM 30A	Survey of Chemistry	5
CHEM 30B	Survey of Chemistry	5
	Prerequisite Units Required	31-34

Requirements

HTEC 80A	Clinical Hematology Lecture	4 1/2
HTEC 80	Clinical Hematology Laboratory	1 1/2
HTEC 81A	Clinical Urinalysis Lecture	1 1/2
HTEC 81	Clinical Urinalysis Laboratory	3/4
HTEC 82A	Clinical Coagulation Lecture	1 1/2
HTEC 82	Clinical Coagulation Laboratory	3/4
HTEC 83A	Clinical Microbiology Lecture	4 1/2
HTEC 83	Clinical Microbiology Laboratory	1 1/2
HTEC 84A	Clinical Immunology/	
	Immunohematology Lecture	4 1/2
HTEC 84	Clinical Immunology/	
	Immunohematology Laboratory	1 1/2
HTEC 85C	Clinical Chemistry I Lecture	4 1/2
HTEC 85A	Clinical Chemistry I Laboratory	1 1/2
HTEC 85D	Clinical Chemistry II Lecture	4 1/2
HTEC 85B	Clinical Chemistry II Laboratory	1 1/2
HTEC 180	Clinical Hematology/Urinalysis/	
	Coagulation Practicum	6
HTEC 183	Clinical Microbiology Practicum	6
HTEC 184	Clinical Immunology/	
	Immunohematology Practicum	4 1/2
HTEC 185	Clinical Chemistry Practicum	6
	Total Units Required,	
	Including Prerequisites	88-91

A.A. Degree

1. For the major, complete the same prerequisites and requirements listed for the Medical Laboratory Technology Certificate of Achievement-Advanced (see above).
2. Meet De Anza's A.A./A.S. degree requirements as specified on page 52.

Music

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.
2. Complete the following:

Advisory

MUSI 10A or qualifying score on the Music placement examination. Music placement examination offered upon request or during the first day of class in MUSI 3A.

Requirements

MUSI 3A	Comprehensive Musicianship	4
MUSI 3B	Comprehensive Musicianship	4
MUSI 3C	Comprehensive Musicianship	4
MUSI 4A	Comprehensive Musicianship II	4
MUSI 4B	Comprehensive Musicianship II	4
MUSI 4C	Comprehensive Musicianship II	4

NOTE: MUSI 3A offered Fall and Winter quarters only, MUSI 3B and 3C offered Winter and Spring quarters only.

Complete one (1) course from the series: 1 1/2
MUSI 25G-N Performance Workshop (1 1/2 ea.)
(Select the appropriate one.)

Complete one (1) course from the following: 4
MUSI 1A Introduction to Music: Western Cultures (4)
MUSI 1B Introduction to Music: Jazz Styles (4)
MUSI 1C Introduction to Music: World Music (4)
MUSI 1D Introduction to Music: Rock - from Roots to Rap (4)

Complete a minimum of 12 units from the following (choral or instrumental): 12
MUSI 15A Guitar Ensemble I (2)
MUSI 15B Guitar Ensemble II (2)
MUSI 15C Guitar Ensemble III (2)
MUSI 20 De Anza Chorale (2)
MUSI 21 Vintage Singers (2)
MUSI 22 Early Music Study and Performance (1)
MUSI 24 Women's Chorus (1 1/2)
MUSI 27 Vocal Jazz Ensemble (2)
MUSI 31A Chamber Orchestra (2)
MUSI 31B Chamber Orchestra (2)
MUSI 31C Chamber Orchestra (2)
MUSI 34 Jazz Ensemble (2)
MUSI 42 Symphonic Wind Ensemble (2)

Complete a minimum of five (5) units from the following which do not duplicate those chosen from the lists above: 5
MUSI 1A Introduction to Music: Western Cultures (4)
MUSI 1B Introduction to Music: Jazz Styles (4)
MUSI 1C Introduction to Music: World Music (4)
MUSI 1D Introduction to Music: Rock - from Roots to Rap (4)
MUSI 5A Modal Counterpoint (3)
MUSI 8 Intermediate Electronic Music (3)
MUSI 9 Jazz Piano (2)
MUSI 12A Class Piano I (1 1/2)
MUSI 12B Class Piano II (1 1/2)
MUSI 12C Class Piano III (1 1/2)

MUSI 13A	Beginning Singing I (1 1/2)	
MUSI 13B	Beginning Singing II (1 1/2)	
MUSI 14A	Classical Guitar I (1 1/2)	
MUSI 14B	Classical Guitar II (1 1/2)	
MUSI 14C	Classical Guitar III (1 1/2)	
MUSI 18	Intermediate Piano (1 1/2)	
MUSI 25G-N	Performance Workshop series (1 1/2 ea.)	
MUSI 32A	Jazz Solo Voice I (1 1/2)	
MUSI 32B	Jazz Solo Voice II (2 1/2)	
MUSI 46	Beginning Winds and Percussion (1 1/2)	
MUSI 48	Jazz Improvisation (1 1/2)	
MUSI 51	Introduction to Electronic Music (3)	
MUSI 53	The Music Business (3)	
MUSI 58A	African and African-Influenced Percussion and Rhythms (1 1/2)	
MUSI 58B	Intermediate African and African-Influenced Percussion and Rhythms (1 1/2)	
Major	Music	46 1/2 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

Nursing Programs

LVN Transition to Registered Nurse Registered Nurse

A.S. Degree Requirements for Nursing Programs

Visit the Counseling Center to apply for the degree and for academic planning assistance.

See the Nursing Program Web site for application guidelines and materials at www.deanza.edu/nursing.

1. Completion of a minimum of 90 quarter units of college credit, of which:
 - A minimum of 24 quarter units must be earned at De Anza College.
 - A maximum of 22 quarter units from another institution may be applied toward the MAJOR.
2. Completion of General Education requirements for Nursing A.S. degree students with a minimum 2.0 GPA ("C" average).
3. Completion of all De Anza courses must be with a minimum 2.0 GPA ("C" average), and all De Anza courses combined with courses transferred from other colleges or universities must be with minimum 2.0 GPA ("C" average).

For the Nursing programs, completion of all major requirements with a letter grade of "C" grade or better is required. Major requirement courses can also be used to satisfy GE requirements.

Licensed Vocational Nurse

Transition to Registered Nurse

A.S. Degree

Admission to the program is limited. The Licensed Vocational Nurse (LVN) Transition to Registered Nurse (RN) Program is a minimum of three (3) quarters in length, not including summer. LVN Transition to RN students enter the Registered Nursing program as advanced placement students as determined by the Executive Head of the Nursing Program. The majority of courses are held in the daytime.

Admission Criteria

Admission to the program is limited and based on the following:

- Completion of all prerequisites with the minimum grade requirements specified below.
- Completion of a nursing program application.
- Participation in the random selection process.
- Current California Vocational Nurse License.
- Intravenous Certification.
- Evidence of good health.
- Background check and drug testing prior to entry into the program. Clinical sites may limit student participation depending on findings, which may prevent the student from completing the graduation requirements.

Prerequisites

Complete with a "C" grade or better:

ANTH 2	Cultural Anthropology (4)	
or		
SOC 1	Introduction to Sociology (4)	4
MATH 114	Intermediate Algebra	5

Complete the following with a "C" grade or better and a minimum combined grade point average (GPA) of 3.0 ("B" average):

BIOL 26^	Introductory Microbiology	6
BIOL 40A^	Human Anatomy and Physiology	5
BIOL 40B^	Human Anatomy and Physiology	5
BIOL 40C^	Human Anatomy and Physiology	5
BIOL 45^	Introduction to Human Nutrition	4
EWRT 1A	Composition and Reading (5)	
or		
ESL 5*	ESL: Advanced Composition and Reading (5)	5
PSYC 1	General Psychology	4
PSYC 14	Developmental Aspects of Psychology	4
SPCH 1	Public Speaking (4)	
or		
SPCH 10	Fundamentals of Oral Communication (4)	4
	Prerequisite Units Required.	51

[^] Course must be completed within seven (7) years of nursing program admission screening.

^{*} ESL 5 restricted to students whose native language is not English.

Note: BIOL 40A, B, C were formerly BIOL 47A, B, C, and BIOL 45 was formerly NUTR 58.

Requirements

Admitted students complete the major courses and General Education requirements to earn the degree.

Major Requirements*

Complete with a "C" grade or better:

NURS 85A	Psychiatric/Mental Health Nursing	2
NURS 85AL	Psychiatric/Mental Health Nursing (Clinical)	2 1/2
NURS 85	Advanced Medical/Surgical Concepts	2
NURS 85L	Advanced Medical/Surgical Concepts (Clinical)	2 1/2
NURS 86	Leadership/Management in Nursing	2
NURS 86L	Leadership/Management in Nursing (Clinical)	5
	Total Units Required, Including Prerequisites	67

Ø This certificate was submitted for state approval.
Please check with the department for status.

Recommended

NURS 150W, Nursing Laboratory Skills

* Fewer or more major courses from the RN curriculum may be required at the discretion of the Executive Head of the Nursing program depending on the student's previous education.

A.S. Degree General Education Requirements

Complete with a minimum 2.0 GPA:

- Area C - Arts and Humanities
- Intercultural Studies - one course taken in Area C or D
- Area E - Physical Education, Development and Performance: one (1) unit required

Note: A.S. Degree General Education Areas A, B, and D are satisfied through completion of the prerequisites and major courses.

Registered Nurse (RN)

A.S. Degree

Admission to the program is limited. The RN Program starts every quarter except summer quarter and is six (6) quarters in length. Nursing classes are generally not offered in the summer. The majority of courses are held in the daytime.

Admission Criteria

Admission to the program is limited and based on the following:

- Completion of all prerequisites with the minimum grade requirements specified below.
- Completion of a nursing program application.
- Participation in the random selection process.
- Evidence of good health.
- Background check and drug test (two times each): once each prior to entry into the program and once each prior to beginning Quarter 4 of the program. Clinical sites may limit student participation depending on findings, which may prevent the student from completing the graduation requirements.

Prerequisites

Complete with a passing grade of "C" or better/"P"(Pass):

NURS 50	Career Opportunities in Nursing	2
MATH 114	Intermediate Algebra	5

The following prerequisites for the Registered Nursing Program will be used for screening and admission into the RN Program.

Complete the following with a "C" grade or better and a minimum combined GPA of 3.0 ("B" average):

BIOL 26^	Introductory Microbiology	6
BIOL 40A^	Human Anatomy and Physiology	5
BIOL 40B^	Human Anatomy and Physiology	5
BIOL 40C^	Human Anatomy and Physiology	5
BIOL 45^	Introduction to Human Nutrition	4
EWRT 1A	Composition and Reading (5)	
or		
ESL 5*	ESL: Advanced Composition and Reading (5)	5
PSYC 1	General Psychology	4
PSYC 14	Developmental Aspects of Psychology	4
SPCH 1	Public Speaking (4)	
or		
SPCH 10	Fundamentals of Oral Communication (4)	4

^ Course must be completed within seven (7) years of nursing program admission screening.

* ESL 5 restricted to students whose native language is not English.

Note: BIOL 40A, B, C were formerly BIOL 47A, B, C, and BIOL 45 was formerly NUTR 58.

Conditional Requirement

Complete one (1) of the following courses with a "C" grade or better and before or during the first quarter of the RN Program:

ANTH 2	Cultural Anthropology (4)	
or		
SOC 1	Introduction to Sociology (4)	4
	Prerequisite Units Required	53

Requirements

Admitted students complete the major courses and General Education requirements to earn the degree.

Major Requirements

Complete with a "C" grade or better:

NURS 81	Fundamental Nursing (Non Acute/ Sub Acute Care)	4
NURS 81L	Fundamental Nursing (Non Acute/ Sub Acute Care Clinical)	5
NURS 81P	Pharmacology I	1 1/2
NURS 82	Acute Fundamentals/Medical Surgical I	4
NURS 82L	Acute Fundamentals/Medical Surgical I (Clinical)	5
NURS 82P	Pharmacology II	1 1/2
NURS 83	Perinatal Nursing	2
NURS 83L	Perinatal Nursing (Clinical)	2 1/2
NURS 83A	Pediatric Nursing	2
NURS 83AL	Pediatric Nursing (Clinical)	2 1/2
NURS 83P	Pharmacology III	1 1/2
NURS 83PL	Pharmacology III Lab	1/2
NURS 84	Medical/Surgical II (Care of the Older Adult)	4
NURS 84L	Medical/Surgical II (Care of the Older Adult Clinical)	5
NURS 84C	Critical Thinking in Nursing	2
NURS 85	Advanced Medical/Surgical Concepts	2
NURS 85L	Advanced Medical/ Surgical Concepts (Clinical)	2 1/2
NURS 85A	Psychiatric/Mental Health Nursing	2
NURS 85AL	Psychiatric/Mental Health Nursing (Clinical)	2 1/2
NURS 86	Leadership/Management in Nursing	2
NURS 86L	Leadership/Management in Nursing (Clinical)	5
	Total Units Required, Including Prerequisites	111

Recommended

NURS 150,150W Nursing Laboratory Skills (1/2-1)

A.S. Degree General Education Requirements

Complete with a minimum 2.0 GPA:

- Area C - Arts and Humanities
- Intercultural Studies - one course taken in Area C or D
- Area E - Physical Education, Development and Performance: one (1) unit required

Note: A.S. Degree General Education Areas A, B, and D are satisfied through completion of the prerequisites and major courses.

Additional Information

California Nursing Assistants

Students with a current California Nursing Assistant Certificate who complete the required criteria for entrance into the Registered Nursing Program and are admitted to the program may take the following courses in place of NURS 81 and NURS 81L at the discretion of the Executive Head of the Nursing Program:

NURS 81N	CNA Transition (Non Acute/Sub Acute Care) (3)
NURS 81NL	CNA Transition (Non Acute/Sub Acute Care Clinical) (2)

Advanced placement due to prior nursing education

The student must first complete the screening requirements for entrance into the Registered Nursing Program and be admitted to the program. Placement is done on a space-available basis only after equivalency of previous nursing education has been evaluated by the Executive Head of the Nursing Program.

For LVN students transitioning to the RN Program, see the LVN Transition to RN section.

District Non-Discrimination Policy

It is the policy of the Foothill-De Anza Community College District not to discriminate on basis of race, sex, physical handicap, religion, color, creed, national origin, sexual orientation or age in any of its educational and employment programs and activities, its policies, practices and procedures.

See the Nursing Program Web site for application guidelines and materials at www.deanza.edu/nursing.

Paralegal Studies

Information for Paralegal Studies Students

The Paralegal Studies Program at De Anza College is approved by the American Bar Association. The primary goal of the program is to educate students for positions as paralegals where they can demonstrate the competency and ethical standards demanded of the profession. The program's specific objectives are:

1. Provide paralegal students with a well-rounded, balanced education founded on a beneficial mix of general education and legal education including theory and practical courses, and stressing understanding and reasoning rather than rote learning of facts.
2. Develop in paralegal students an understanding of the basic organization and operation of the federal and California state legal systems.
3. Promote the development of paralegals who understand and appreciate the role of and ethical responsibilities of paralegals in the legal field.
4. Develop in paralegal students the following practical skills:
 - a. Written and oral communication skills
 - b. Ability to do basic legal research, including computer assisted legal research, demonstrating familiarity with both federal and state research tools
 - c. Ability to do basic legal writing including office correspondence, interoffice memoranda and memoranda of law
 - d. In-depth knowledge and ability to function in the area of civil litigation including the ability to draft documents such as pleadings and motions

- e. Sufficient familiarity in one or more areas of law to function as a paralegal working in that substantive area

Paralegal graduates cannot give legal advice, appear in court, or otherwise engage in the unauthorized practice of law. The practice of law by non-attorneys is strictly prohibited by law.

Certificate of Achievement-Advanced

For a Certificate of Achievement-Advanced, students must have an A.A./A.S. degree or higher, complete the required 46 units listed below for the Paralegal Studies A.A. Degree, and meet the requirements for this certificate level as specified on page 52.

A.A. Degree

Complete the following for the major and meet the A.A./A.S. degree requirements as specified on page 52.

PARA 86	Legal Analysis	4
PARA 88	The Paralegal and Professional Responsibility	2
PARA 92A	Partnerships and Corporations	4
PARA 94	Introduction to California Law	4
PARA 95	Overview of American Law	4
PARA 96A	Introduction to Legal Research and Writing	4
PARA 97A	Civil Litigation Procedures	4
PARA 97B	Advanced Civil Litigation Procedures	4

Complete a minimum of 12 units from these major elective courses:

PARA 65 series	PARA 65, 65W, 65X, 65Y, 65Z Current Paralegal Topics (1/2-4)	12
PARA 84	Trial Preparation (4)	
PARA 85	Intellectual Property Law (4)	
PARA 87	Personal Injury and Tort Litigation (4)	
PARA 89	Landlord Tenant Law (4)	
PARA 91A	California Family Law (4)	
PARA 92B	Corporate Securities Regulations (4)	
PARA 93	Bankruptcy Law (4)	
PARA 96B	Advanced Legal Research and Writing (4)	
PARA 96C	Computer Assisted Legal Research/Investigation (4)	
PARA 98	Drafting Wills and Trusts (4)	
PARA 99	California Probate Law and Procedures (4)	

Complete a minimum of four (4) additional units from the above major elective course list or the following courses:

ADMJ 25	Law and Social Change (4)	4
ADMJ 61	Criminal Investigation (4)	
CAOS 91AM	Word Processing I (Word 2007) (2) or CAOS 91AL	
CAOS 91BM	Word Processing II (Word 2007) (2) or CAOS 91BL	
ES 60	Environmental Law (4)	
ICS 29	Cultural Pluralism and American Law and Justice (4)	
LCEN 51	Business Resources on the World Wide Web (1)	
PARA 3	Concepts of Criminal Law (5)	
PARA 11	Federal Courts and Constitutional Law (4)	
PARA 18	Business Law I (5)	
PARA 52A	Legal Aspects of Real Estate in California (4)	
PARA 54	Youth and the Law (4)	
PARA 64 series	PARA 64, 64X, 64Y, 64Z Paralegal Internship (1-4)	
PARA 69	Paralegal Field Trips (1 1/2)	
PARA 74A	Interviewing, Interrogation and Crisis Intervention (4)	

Ø This certificate was submitted for state approval.
Please check with the department for status.

PARA 75	Principles and Procedures of the Justice System (4)	
PARA 90A	Legal Aspects of Evidence (4)	
Major	Paralegal Studies	46 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

Photographic Arts

Film and Digital

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.

2. Complete the following:

F/TV 20	Basic Digital Film/Video Production	4
PHTG 1	Basic Photography	3
PHTG 4	Introduction to Digital Photography	3
PHTG 56A	Color Photography I	4

Complete one (1) course from: 3

PHTG 2	Intermediate Photography (3)	
PHTG 54	Experimental Photography (3)	

Complete one (1) course from: 3

PHTG 3	Advanced Photography (3)	
PHTG 5	Intermediate Digital Photography (3)	

Complete one (1) course from: 4

PHTG 20	Early History of Photography from Its Beginnings to 1925 (4)	
PHTG 21	Contemporary Trends in Photography (4)	

Complete one (1) course from: 4

ARTS 2D	History of Art (Post-Impressionism to the Present) (4)	
ARTS 3TE	Today's Working Artist (4)	

Complete one (1) course from the following: 3

ARTS 4A	Beginning Drawing (3)	
ARTS 10A	Three-Dimensional Design (3)	
ARTS 14A	Watercolor Painting I (3)	
ARTS 15A	Acrylic Painting I (3)	
ARTS 16A	Oil Painting I (3)	
ARTS 18A	Ceramics (3)	
ARTS 37A	Sculpture (3)	

Complete a minimum of 11 units from the following that do not duplicate courses selected above: 11

ARTS 53A	Introduction to Visual Technology (3)	
ARTS 53B	Introduction to Visual Technology (3)	
ARTS 55A	Graphic Design-Communication (3)	
F/TV 2A	History of Cinema (1895-1950) (4)	
F/TV 2B	History of Cinema (1950-Present) (4)	
F/TV 50	Introduction to Film/Television Directing (4)	
F/TV 55A	Video Studio Production (4)	
F/TV 75G	History of Animation (4)	
HUMI 1	Creative Minds (4)	
HUMI 2	But Is It Art? Questions and Criticism (4)	
HUMI 15	Discussion on the Arts (4)	
PHTG 2	Intermediate Photography (3)	
PHTG 3	Advanced Photography (3)	
PHTG 4	Introduction to Digital Photography (3)	
PHTG 5	Intermediate Digital Photography (3)	
PHTG 7	Exploring Visual Expression (4)	
PHTG 20	History of Early Photography from Its Beginnings to 1925 (4)	
PHTG 21	Contemporary Trends in Photography (4)	
PHTG 56B	Color Photography II (4)	
PHTG 58A	Beginning Digital Imaging (3)	

PHTG 58B	Intermediate/Advanced Digital Imaging (3)	
PHTG 77	Special Projects in Photography (2)	
PHTG 78 series	PHTG 78, 78X, 78Y, 78Z	
	Special Topics in Photographic Studies (1/2-3)	
Major	Photographic Arts	42 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

Professional Photography

Film and Digital

Certificate of Achievement ^o

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

PHTG 1	Basic Photography	3
PHTG 4	Introduction to Digital Photography	3
PHTG 5	Intermediate Digital Photography	3
PHTG 56A	Color Photography I	4
PHTG 57A	Commercial Photography I	3
PHTG 58A	Beginning Digital Imaging	3

Complete one (1) course from: 3-4

PHTG 56B	Color Photography II (4)	
PHTG 58B	Intermediate/Advanced Digital Imaging (3)	
	Total Units Required	22-23

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.

2. Complete the following:

ARTS 53A	Introduction to Visual Technology	3
BUS 56	Human Relations in Business	5
F/TV 20	Basic Digital Film/Video Production	4
JOUR 2	Mass Communication and Its Impact on Society	4
PHTG 1	Basic Photography	3
PHTG 4	Introduction to Digital Photography	3
PHTG 5	Intermediate Digital Photography	3
PHTG 56A	Color Photography I	4
PHTG 57A	Commercial Photography I	3
PHTG 58A	Beginning Digital Imaging	3

Complete a minimum of 12 units from the following: 12

F/TV 50	Introduction to Film/Television Directing (4)	
PHTG 7	Exploring Visual Expression (4)	
PHTG 20*	Early History of Photography from Its Beginnings to 1925 (4)	
PHTG 21*	Contemporary Trends in Photography (4)	
PHTG 52	Photography Production Lab (1)	
PHTG 52X	Photography Production Lab (2)	
PHTG 54	Experimental Photography (3)	
PHTG 56B	Color Photography II (4)	
PHTG 57B	Commercial Photography II (3)	
PHTG 58B	Intermediate/Advanced Digital Imaging (3)	
PHTG 77	Special Projects in Photography (2)	
PHTG 78 series	PHTG 78, 78X, 78Y, 78Z	
	Special Topics in Photographic Studies (1/2-3)	

* Only one (1) of these two (2) courses may apply toward the 12 units.

Major	Professional Photography	47 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

Recommended

ARTS 8, BUS 10, BUS 55, other Photography courses, Occupational Work Experience, HUMI 1 or 2

^o This certificate was submitted for state approval.
Please check with the department for status.

Project Management Practitioner

Certificate of Achievement [◇]

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

CIS 95A	Project Management - A Practicum	5
CIS 95B	Project Planning and Control - A Practicum	4
CIS 95C	Risk Assessment and Mitigation - A Practicum	4
CIS 95D	Managing Outsourcing - A Practicum	3
<i>Complete one (1) course from the following:</i>		3-5
CIS 79	Managing Technology Projects (5) or BUS 88	
CIS 80A	Process Management (3)	
CIS 95E	CAPM and PMP Exam Preparation (4)	
Total Units Required		19-21

Real Estate

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

BUS 18	Business Law I	5
REST 50	Real Estate Principles	4
REST 51	Real Estate Practices	4
REST 53	Real Estate Finance	4
REST 56A	Real Estate Appraisal	4
<i>Complete a minimum of 16 units from the following:</i>		16
ACCT 1A	Financial Accounting I (5)	
BUS 10	Introduction to Business (5)	
REST 52A	Legal Aspects of Real Estate in California (4)	
REST 54	Real Estate Economics (4)	
REST 59	Survey of Real Estate Property Management (4)	
REST 61	Real Estate Investments (4)	
Total Units Required		37

Recommended

- | | |
|----------|--------------------------------------|
| ACCT 67 | Federal Income Tax (4) |
| BUS 21 | Business and Society (5) |
| BUS 54 | Business Mathematics (5) |
| BUS 55 | Introduction to Entrepreneurship (5) |
| BUS 69 | Investment Fundamentals (4) |
| BUS 70 | Principles of E-Business (5) |
| BUS 90 | Principles of Marketing (5) |
| REST 135 | Foreclosure Technology Tools (1/2) |

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.
2. Complete the following:

ACCT 1A	Financial Accounting I	5
BUS 10	Introduction to Business	5
BUS 18	Business Law I	5
REST 50	Real Estate Principles	4
REST 51	Real Estate Practices	4
REST 53	Real Estate Finance	4
REST 56A	Real Estate Appraisal	4

- Complete a minimum of 16 units from the following:* 16
- | | | |
|----------------------|--|----------|
| BUS 69 | Investment Fundamentals (4) | |
| REST 52A | Legal Aspects of Real Estate in California (4) | |
| REST 54 | Real Estate Economics (4) | |
| REST 59 | Survey of Real Estate Property Management (4) | |
| REST 61 | Real Estate Investments (4) | |
| Major | Real Estate | 47 units |
| GE | General Education (31-42 units) | |
| Electives | Elective courses required when major units plus GE units total is less than 90 | |
| Total Units Required | | 90 units |

Recommended

- | | |
|----------|--------------------------------------|
| ACCT 1B | Financial Accounting II (5) |
| ACCT 1C | Managerial Accounting (5) |
| ACCT 67 | Federal Income Tax (4) |
| ACCT 86 | Computer Accounting Systems (4) |
| BUS 21 | Business and Society (5) |
| BUS 54 | Business Mathematics (5) |
| BUS 55 | Introduction to Entrepreneurship (5) |
| BUS 87 | Introduction to Selling (4) |
| BUS 90 | Principles of Marketing (5) |
| REST 135 | Foreclosure Technology Tools (1/2) |

For more program information see the California Department of Real Estate Web site: www.dre.ca.gov

Important information about the California Real Estate Appraiser's License

Real Estate courses at De Anza College are not designed to meet the general education requirements of the California Real Estate Appraiser's Licensing and Certification program. For further information, students interested in these licenses should contact the State of California Office of Real Estate Appraisers or go to their Web site at www.orea.ca.gov.

Speech Communication

Certificate of Achievement [◇]

1. Meet the requirements for this certificate level as specified on page 52.
2. Complete the following:

<i>Complete one (1) course from:</i>		4
SPCH 1	Public Speaking (4)	
SPCH 10	Fundamentals of Oral Communication (4)	
<i>Complete one (1) course from:</i>		4-5
SPCH 8	Argumentation and Critical Inquiry in Oral Communication (4)	
SPCH 9	Argumentation: Analysis in Oral and Written Communication (5)	
SPCH 15	Problem Solving and Critical Reasoning in Groups (4)	

Complete a minimum of 10 units from the following which do not duplicate those taken above: 10

JOUR 2	Mass Communication and Its Impact on Society (4)	
SPCH 1	Public Speaking (4)	
SPCH 7	Intercultural Communication (4)	
SPCH 8	Argumentation and Critical Inquiry in Oral Communication (4)	
SPCH 9	Argumentation: Analysis in Oral and Written Communication (5)	
SPCH 10	Fundamentals of Oral Communication (4)	
SPCH 15	Problem Solving and Critical Reasoning in Groups (4)	
SPCH 16	Interpersonal Communication (4)	
SPCH 60	Facilitating Collaborative Communication (4)	
SPCH 70	Effective Organizational Communication (4)	
SPCH 77 series	SPCH 77, 77X, 77Y, 77Z Special Individual Projects in Speech Communication (1-4)	
SPCH 78 series	SPCH 78, 78X, 78Y, 78Z Special Topics in Speech Communication (1/2-4)	

Note: up to four (4) units from SPCH 77, 78 series courses may apply.

Total Units Required 18-19

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.
2. Complete the following:

Complete one (1) course from: 4

SPCH 1	Public Speaking (4)	
SPCH 10	Fundamentals of Oral Communication (4)	

Complete one (1) course from: 4-5

SPCH 8	Argumentation and Critical Inquiry in Oral Communication (4)	
SPCH 9	Argumentation: Analysis in Oral and Written Communication (5)	

Complete the following:

JOUR 2	Mass Communication and Its Impact on Society	4
SPCH 7	Intercultural Communication	4
SPCH 15	Problem Solving and Critical Reasoning in Groups	4
SPCH 16	Interpersonal Communication	4
SPCH 70	Effective Organizational Communication	4
Specialty Area*	(contact an instructor to create)	12
Major	Speech Communication	40-41 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

* Contact a full-time Speech Communication instructor to create your specialty area of study (12 units). Your specialty area description with signed approval from the Speech Communication Department must accompany your application for the degree.

Technical Writing

Certificate of Achievement [◊]

Prerequisite

EWRT 211

EWRT 1A recommended

1. Meet the requirements for this certificate level as specified on page 52.

2. Complete the following:

Requirements

TWRT 61 is the prerequisite/corequisite for TWRT 62.

(Concurrent enrollment is allowed for TWRT 61 and TWRT 62.)

TWRT 61 is the prerequisite for TWRT 63.

TWRT 62 is the prerequisite for TWRT 64.

TWRT 61	Introduction to Technical Writing	5
TWRT 62	Survey of Technical Writing	5
TWRT 63	Technical Publications	5
TWRT 64	Technical Writing Seminar	5
	Total Units Required	20

The TWRT courses above are also listed under BUS and EWRT.

A.A. Degree

1. Meet the A.A./A.S. degree requirements as specified on page 52.
2. Complete the Certificate of Achievement course requirements. 20
3. Complete a specialty area of study as described below. 25

Contact the Technical Writing department chair to create your specialty area of study (25 units minimum). Select courses from TWRT Special Topics or TWRT Special Projects courses and/or discipline areas such as:

Computer Applications
Computer Aided Design/Digital Imaging
Computer Information Systems
Graphic Design
Journalism
Photography

Your specialty area description with signed approval from the department chair must accompany your degree application.

Major	Technical Writing	45 units
GE	General Education (31-42 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
	Total Units Required	90 units

De Anza College.
Just What You Need

◊ This certificate was submitted for state approval. Please check with the department for status.

COURSE NUMBERING SYSTEM

General Guidelines for Courses Numbered:

- 1-49 transferable to UC (See information on limitations below.)
- 1-99 transferable to CSU
- 1-199 De Anza A.A./A.S. degree applicable
- 200+ non-degree applicable

See individual course listing in this catalog and class schedule for exceptions to guidelines.

UC Limitations to Transfer Course List

De Anza courses numbered 1-49 are generally transferable to UC. However, there are limitations and they are subject to change.

Visit www.ASSIST.org for updates. The 2010-2011 UC transferable course list should be available on ASSIST around October 2010.

2009-2010 UC Transfer Course Agreement (TCA)

Limitations

Refer to this summary of course limitations on the UC TCA when calculating the minimum 90 transferable quarter units required for transfer to the UC.

ADMJ/POLI/ PARA/SOC	ADMJ/PARA/POLI 11 and ADMJ/SOC 25 combined: maximum credit, one course
ARBC	ARBC 2 corresponds to two years of high school study
ARTS	Any or all of these courses combined: maximum credit, 20.5 quarter units per UC Berkeley's College of Environmental Design. ARTS 4B ARTS 8 ARTS 3TE and ARTS 3TEL must both be taken in order to receive transfer credit
BIOL	No credit for BIOL 10 or BIOL 11 if take after BIOL 6A, 6B or 6C
BUS	BUS 10 and BUS 21 combined: maximum credit, one course
CANT	CANT 1, 2, 3 and MAND 1, 2, 3 combined: maximum credit, one series CANT 2 corresponds to two years of high school study
CHEM	CHEM 1A, 1B and CHEM 30A, 30B combined: maximum credit, one series CHEM 10 and CHEM 30A combined: maximum credit, one course No credit for CHEM 10 or CHEM 30A if taken after CHEM 1A
CIS	Credit will be granted for CIS 15AG and CIS 15BG combined or CIS 26A
ENGR	ENGR 2 and ENGR 10 combined: maximum credit, one course
ELIT/HIST	ELIT/HIST 15A, ELIT/HIST 15B and ELIT 19 combined: maximum credit, two courses
ESL	ESL 5 and ESL 6—Any or all of these courses combined: maximum credit, 12 units
ESCI	ESCI 19, ESCI 20, ESCI 21 and ESCI 30 combined: maximum credit, three courses



F/TV	F/TV 20 and F/TV 22 combined: maximum credit, one course
FREN	FREN 1, 2, 3, and FREN 10 combined: maximum credit, 15 units FREN 2 and FREN 10 corresponds to two years of high school study
GERM	GERM 2 corresponds to two years of high school study
ITAL	ITAL 2 corresponds to two years of high school study
JAPN	JAPN 2 corresponds to two years of high school study
JOUR	JOUR 21A and 21B—Any or all of these courses combined: maximum credit, one course
KORE	KORE 2 corresponds to two years of high school study
MAND	MAND 1, 2, 3 and CANT 1, 2, 3 combined; maximum credit, one series MAND 2 corresponds to two years of high school study
MATH	MATH 1A and MATH 12 combined: maximum credit, one course MATH 10, MATH 23, PSYC 15 and SOC 15 combined: maximum credit, one course
MUSI	No credit for MUSI 10A, 10B if taken after MUSI 3A, 3B
PERS	PERS 2 corresponds to two years of high school study
P E/PEA	UC grants a maximum of six (6) quarter units of credit for appropriate Physical Education Activity courses. See full course list with limitations at www.ASSIST.org Any or all of the following P E courses combined: maximum credit, 12 quarter units: P E 32F, 32G, 32H, 32I, 32J, 32K, 32L, 32M, 32N, 32P, 32S, 32W, 92B, 92T
PHYS	PHYS 2A, 2B, 2C and PHYS 4A, 4B, 4C, 4D combined: maximum credit, one series. Deduct credit for duplication of topics No credit for PHYS 10 if taken after PHYS 2A or PHYS 4A
PSYC/SOC	PSYC/SOC 15, MATH 10 and MATH 23 combined: maximum credit, one course
SIGN	SIGN 2 corresponds to two years of high school study
SPAN	SPAN 2 corresponds to two years of high school study
SPCH	SPCH 10 and SPCH 15 combined: maximum credit, one course
URDU	URDU 2 corresponds to two years of high school study
VIET	VIET 2 corresponds to two years of high school study
Variable Topics Courses	These courses are also called "Independent Studies," "Special Studies," "Special Topics," "Internships," "Field work," etc. Credit for variable topics courses is given only after a review of the scope and content of the course by the enrolling UC campus. This usually occurs after transfer and may require recommendations from faculty. Credits CANNOT be counted towards minimum admissions requirement. See www.assist.org for more information.

COURSE LISTINGS



Accounting

ACCT 1A Financial Accounting I 5 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.

Five hours lecture.

The primary objective of this course is to help students learn how accounting meets the information needs of various users by developing and communicating information that is used in decision-making. Accordingly, the expected student outcome is the demonstration that the student can read, analyze and interpret external financial statements.

ACCT 1B Financial Accounting II 5 Units

Prerequisite: Accounting 1A.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.

Five hours lecture.

The primary objective of this course is to help students learn how accounting meets the information needs of various users by developing and communicating information that is used in decision-making. Accordingly, the expected student outcome is the demonstration that the student can read, analyze and interpret external financial statements.

ACCT 1C Managerial Accounting 5 Units

Prerequisite: Accounting 1B.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.

Five hours lecture.

Study the role of management accounting information in organizations for operational control, product and customer costing, and performance measurement.

ACCT 51A Intermediate Accounting 5 Units

Prerequisite: Accounting 1C.

Five hours lecture.

Principles, control, and theory of accounting for assets, financial statements, cash and cash flows, receivables, inventories, plant and equipment, intangible assets.

ACCT 51B Intermediate Accounting 5 Units

Prerequisite: Accounting 51A.

Five hours lecture.

Principles, control, and theory of accounting for liabilities and equities, corporations, accounting changes, statements from incomplete records, price level and fair-value accounting.

ACCT 52 Advanced Accounting 5 Units

Advisory: Accounting 51B.

Five hours lecture.

The Advanced Accounting course presents financial accounting theories and practices related to business combinations and consolidated financial reporting. This includes the development of complex business structures and forms of business combinations; consolidated financial reporting for intercorporate acquisitions and operations; and the accounting for transactions of affiliated companies. The course also includes accounting and reporting issues in the multinational business environment. Finally, accounting theory and practice related to the formation, operation and liquidation of partnerships is covered.

ACCT 58 Auditing 5 Units

Prerequisite: Accounting 51A and 51B.

Corequisite: Accounting 58 students may also enroll in Accounting 51B concurrently.

Five hours lecture.

Study of environment, principle, and practices of financial statement audit. Topics include Generally Accepted Auditing Standards (GAAS), Sarbanes-Oxley Act 2002 regulatory requirements, internal controls and audit risk; audit planning, procedures, evidence, documentation and reports.

ACCT 64 Payroll and Business Tax Accounting 3 Units

Prerequisite: Accounting 1A.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Mathematics 212 or equivalent.

Three hours lecture.

Fundamentals of payroll accounting using manual and computerized accounting systems. Theoretical and practical aspects of payroll accounting and reporting. Course includes Federal and California payroll tax rules and forms.

ACCT 66 Cost Accounting 5 Units

Prerequisite: Accounting 1B.

Five hours lecture.

Procedures, practices, and fundamentals used by accountants when costing products or services, evaluating and measuring performances, and reporting results to users of accounting information.

ACCT 67A Federal Income Tax 4 Units

(Formerly Accounting 67.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent; Accounting 1A (may be taken concurrently).

(Also listed as Business 67A. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

A study of current federal income tax law and the procedures for preparing an individual's tax return.

ACCT 67B Advanced Tax Accounting I 4 Units

(Formerly Accounting 68A.)

Prerequisite: Accounting 67A or Business 67A.

(Also listed as Business 67B. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

A study of current federal income tax law and California income tax law as it relates to individuals and sole proprietorship taxes.

ACCT 68 Advanced Tax Accounting II 4 Units

(Formerly Accounting 68B.)

Prerequisite: Accounting 67B or Business 67B.

Four hours lecture.

A study of current federal income tax law as it relates to corporations, partnerships, estates, trusts, and gift taxes. California tax law differences will be highlighted.

ACCT 70 Budgeting and Planning 5 Units

Prerequisite: Accounting 1C.

Five hours lecture.

The role of budgeting and planning as useful tools for monitoring, managing, and evaluating operational performance of an entity.

ACCT 75 Accounting for Government and Nonprofit Entities 5 Units

Advisory: Accounting 1C.

Five hours lecture.

Presents the characteristics and principles of the financial policies and procedures followed by state, county and municipal governments, as well as public and private universities and hospitals, and certain non-profit organizations. The course will emphasize the importance to governmental agencies of properly discharging their responsibilities to taxpayers. These responsibilities include the proper accounting for and budgeting of tax and related revenues and expenditures. The course will also emphasize the importance to non-profit entities of meeting the financial reporting and management needs of various stakeholders such as donors, service providers and recipients, community members, and regulatory agencies. Funds, fund accounting, and the newest GASB and FASB pronouncements relating to accounting for governmental and non-profit entities are also presented.

ACCT 76 Nonprofit Management Control 5 Units

Advisory: Accounting 1C.

Five hours lecture.

Presents theories and practices of fiscal and management control in nonprofit organizations. Includes management control principles as related to nonprofit financial statements as well as the utilization of cost accounting techniques in the nonprofit sector. Covers control system elements such as strategic planning, budgeting, operational control, output measurement, performance reporting, and program evaluation. Relates nonprofit management control to the broader organizational context.

ACCT 86 Computer Accounting Systems**5 Units***Prerequisite: Accounting 1A.*

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Also listed as Computer Information Systems 86. Student may enroll in either department, but not both, for credit.)
Five hours lecture.

Fundamentals of computerized accounting using integrated general ledger software packages and electronic spreadsheet software. Conversion of a manual system to a computer system.

ACCT 87AH Computerized Accounting Programs I (Peachtree - Windows)**2 Units***Prerequisite: Accounting 1A.**Four hours lecture-laboratory.*

Introduction to computerized accounting for service industry. Applications include general ledger set-up, accounts payable, accounts receivable and payroll. Course will take advantage of new accounting software being used in industry.

ACCT 87AI Computerized Accounting Programs I (Quickbooks)**2 Units***Prerequisite: Accounting 1A.**Four hours lecture-laboratory.*

Introduction to computerized accounting for service industry. Applications include general ledger set-up, accounts payable, accounts receivable and payroll. Course will take advantage of new accounting software being used in industry.

ACCT 88 Excel Spreadsheets for Accounting**2 Units***Prerequisite: Accounting 1A.*

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Mathematics 212 or equivalent; Computer Applications and Office Systems 93AH or 93AK or 93AL.
Two hours lecture.

Fundamentals of electronic spreadsheets using Microsoft Excel software. Concentration on solving accounting problems and completing accounting projects with Excel.

ACCT 98U Internship, Business/Computer Systems Division**1 Unit****ACCT 98V****2 Units****ACCT 98W****3 Units****ACCT 98X****4 Units****ACCT 98Y****5 Units****ACCT 98Z****6 Units**

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Also listed as Business 98U-Z, Computer Applications and Office Systems 98U-Z, and Computer Information Systems 98U-Z. Student may enroll in only one department for credit.)
Four hours laboratory per unit of supervised internship in an authorized office or agency.

(Any combination of Accounting 98U-Z, Business 98U-Z, Computer Applications and Office Systems 98U-Z, and Computer Information Systems 98U-Z may be taken up to six times, not to exceed 18 units, for credit. During each internship, students will be placed at different employer locations, different working environments, and/or given different assignments within the same company or department--thus providing the students with various opportunities to learn different skills. Students may repeat the same internship location and working environment if the student, employer, and instructor believe it would provide the student with increased work experience.)

Off-campus supervised experiential education/internship for Business/Computer Systems Division students in research or business office environments related to student's major. Practical application of knowledge, skills and abilities acquired in student's major. Opportunity for additional hands-on training. Exposure to varied corporate, state and federal protocols, methodologies and practices in a professional environment.

ACCT 105 Basic Financial Accounting Procedures**1 Unit***Corequisite: Accounting 105 students must also enroll in Accounting 1A.*

Advisory: English Writing 200 and Reading 200 (or Language Arts 200); and Mathematics 210 or equivalent.
Two hours lecture-laboratory.

Procedural aspects of accounting including the accounting equation, analysis of business transactions, debit and credit rules, and aspects of the accounting cycle.

ACCT 107 Certified Bookkeeper Review**2 Units***Prerequisite: Accounting 1A.**Two hours lecture.*

Provides advanced instruction in bookkeeping and record-keeping functions. Emphasis is placed on mastering adjusting entries, correction of errors, depreciation, payroll, and inventory. Upon completion, students should be able to conduct all key bookkeeping functions for small businesses.

Administration of Justice**ADMJ 1 Introduction to Administration of Justice 4 Units**

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Also listed as Political Science 10. Student may enroll in either department, but not both, for credit.)

Four hours lecture.
 The history and philosophy of the administration of justice in America. A study of the overall system from its European antecedents and development within the United States; identification of various subsystems and components; their role expectations and interrelationships; basic premise of crime, punishment and rehabilitation; the role of education in the administration of justice within a democracy.

ADMJ 3 Concepts of Criminal Law (CP 2)**4 Units**

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Also listed as Paralegal 3 and Political Science 13. Student may enroll in only one department for credit.)

Four hours lecture.
 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 in a multicultural, multiethnic society.

ADMJ 5 Community Relations**4 Units**

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Four hours lecture.

Examination of interrelationships of Administration of Justice practitioners and multicultural, multiethnic communities.

ADMJ 11 Federal Courts and Constitutional Law**4 Units***Advisory: English Writing 1A or English as a Second Language 5.*

(Also listed as Paralegal 11 and Political Science 11. Student may enroll in only one department for credit.)
Four hours lecture.

Federal court procedure and the impact of U.S. Constitutional law on federal and state law. Read and analyze the Constitution. Effect of U.S. Supreme Court cases on current constitutional interpretation.

ADMJ 25 Law and Social Change**4 Units**

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Also listed as Paralegal 25 and Sociology 25. Student may enroll in only one department for credit.)

Four hours lecture.
 Exploration of the use of law as an instrument for social change. Examination of relationship between law and social change in cross-cultural settings. Analysis of legislation, case law, the process of conflict resolution and legal institutions as they relate to social change.

ADMJ 29 Cultural Pluralism and American Law and Justice**4 Units***(Formerly Administration of Justice 58.)**(See general education pages for the requirement this course meets.)**Advisory: English Writing 1A or English as a Second Language 5.*

(Also listed as Intercultural Studies 29. Student may enroll in either department, but not both, for credit.)
Four hours lecture.

An interdisciplinary study of marginalized peoples and their relationship to the law. Examines the legal perspective on cultural diversity in the United States, including race, ethnicity, gender, class, religious background, disability, and sexual orientation. Analyzes how these groups interact with mainstream society through American law, concentrating on both historical and contemporary state and federal legislation and court rulings. Analyzes how the courts play a role in determining the status of minority groups.

ADMJ 50 Crime, Correction and Society**4 Units**

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Also listed as Sociology 50. Student may enroll in either department, but not both, for credit.)

Four hours lecture.
 A legal and sociological approach to understanding the fundamental ideas which have shaped correctional theories and practices. An in-depth study of adult sentencing, prisons, and jails subsystem including institutions by type and function, probation, parole and community based programs. A comprehensive examination of current correctional practices, punishment, rehabilitation, and community treatment programs with an emphasis on issues concerning race, ethnicity and gender.

ADMJ 51 Women in Crime 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Also listed as Sociology 51. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

An examination of the changing role of women in crime with emphasis on gender and cultural based differences related to victims, offenders and criminal justice professionals.

ADMJ 53 Criminal Law II 5 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

An advanced course in criminal law emphasizing substantive California statutory criminal codes.

ADMJ 54 Youth and the Law 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Paralegal 54 and Sociology 54. Student may enroll in only one department for credit.)

Four hours lecture.

A legal and sociological approach to understanding the causes of juvenile delinquency; an examination of race, culture and gender in juvenile delinquency; community responses to delinquency; organization, functions and jurisdiction of both social and legal agencies; processing and detention; case disposition; statutes and court procedures.

ADMJ 55 Alcohol, Narcotics and Drug Abuse 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Designed to equip public service workers and the community with knowledge of the issues involved in drug abuse, including the history and classification of drugs and the problems facing society and the governing of illegal drug use.

ADMJ 56 Practical Writing for Administration of Justice 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Designed to acquaint the student with important developments, techniques and applications in the art and science of report writing for criminal justice professionals.

ADMJ 60 Patrol Procedures 4 Units

Prerequisite: Administration of Justice 75.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Responsibilities, techniques, and methods of police patrol. Practical experience in law enforcement techniques.

ADMJ 61 Criminal Investigation 4 Units

Prerequisite: Administration of Justice 3 or 75.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Fundamentals of crime investigation; techniques of crime scene search and recording; collection and preservation of physical evidence; use of scientific aids; modus operandi processes; sources of information; interviewing techniques.

ADMJ 62 Sexual Assault, Police and Community Response 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Psychology 63. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Societal and psychological aspects of sexual assault, the perpetrators and the victims; practical application of the police investigation, the criminal justice process, and social service intervention.

ADMJ 64 Administration of Justice Internship 1 Unit

ADMJ 64X 2 Units

ADMJ 64Y 3 Units

ADMJ 64Z 4 Units

Advisories: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours per week per unit of supervised internship in an authorized office or agency.

(Any combination of Administration of Justice 64, 64X, 64Y and 64Z may be taken up to six times, not to exceed 18 units, for credit.)

Program of work experience and study in law enforcement, corrections/probation, private security or human services under the supervision of the instructor and agency personnel.

ADMJ 69 Administration of Justice Field Trips 1 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture laboratory.

(May be taken up to two times for credit, as long as different subject matter is addressed each time.)

A survey of current conditions in law enforcement, probation, and corrections and visits to adult or juvenile detention and correctional facilities in Northern California.

ADMJ 73 Crime and Criminology 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Sociology 73. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Introduction to major types of crime and criminal behavior, examining demographics and measurement of crime, theories of causation and victimization, crime prevention and crime control.

ADMJ 74A Interviewing, Interrogation and Crisis Intervention 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Paralegal 74A and Psychology 74A. Student may enroll in only one department for credit.)

Four hours lecture.

Theories, principles and strategies of tactical and interpersonal communication necessary to interview victims, witnesses, and suspects; crisis intervention strategies for victims and witnesses of crime; communication with individuals from diverse backgrounds with consideration to race, ethnicity, gender, age and special needs.

ADMJ 75 Principles and Procedures of the Justice System 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Paralegal 75 and Political Science 75. Student may enroll in only one department for credit.)

Four hours lecture.

Procedures followed by law enforcement and courts in criminal cases; constitutional principles governing those procedures.

ADMJ 77 Special Projects in Administration of Justice 1/2 Unit

ADMJ 77W 1 Unit

ADMJ 77X 2 Units

ADMJ 77Y 3 Units

ADMJ 77Z 4 Units

(Formerly Administration of Justice 65, 65W-Z.)

Hours to be arranged with a minimum of twelve hours lecture per quarter required for each unit of credit.

(Any combination of Administration of Justice 77, 77W, 77X, 77Y and 77Z may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)

Individual and/or group projects in the Administration of Justice curriculum dealing with issues related to law enforcement, courts, corrections, private security, and industrial security.

ADMJ 78 Correctional Investigation 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

History and development of probation and parole systems, including current practices at the Federal, State and local levels. Investigation techniques needed for preparation of pre-sentence investigation reports, use of these reports in the courts, probation and parole supervision, and correctional institutions.

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a smoke-free campus



ADMJ 90A Legal Aspects of Evidence (CP 4) 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Paralegal 90A. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

The origin, development, and content of the rules of evidence; kinds of degrees of evidence and rules governing admissibility of evidence.

ADMJ 95 Overview of American Law 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Paralegal 95 and Political Science 95. Student may enroll in only one department for credit.)

Four hours lecture.

Overview of the major substantive areas of American law: Agency, contracts, constitutional law, corporations, criminal law, family law, property, torts, wills and estates.

ADMJ 161 Computer Forensics 4 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 150A or equivalent; Computer Applications and Office Systems 102L or equivalent.

(Also listed as Computer Applications and Office Systems 161 and Computer Information Systems 161. Student may enroll in only one department for credit.)

Three hours lecture, two hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Introduction to computer crime investigation processes. Guides students to becoming computer forensics investigators who can acquire and analyze data from a computer to be used as evidence. Topics include computer forensics tools, data recovery and retrieval, information gathering techniques, computer data preservation techniques, and computer crime investigation techniques. System Administrators, IT Managers, and Law Enforcement Officers, would benefit from taking this course as well as individuals wanting to become Computer Forensics Consultants.

Aerospace Studies

(Air Force Reserve Officers Training Corps) For information on Air Force ROTC courses, please see Military Studies.

Anthropology

ANTH 1 Physical Anthropology 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Biological structure and evolution of primates with particular emphasis on Homo sapiens as a culture-bearing animal. Relationships between human and non-human primates; genetic, physical, and cultural variations in living human groups; social organization and gender roles in primate and human societies; and considerations of future human evolution.

ANTH 1L Physical Anthropology Laboratory 1 Unit

(See general education pages for the requirement this course meets.)

Prerequisite: Completion of or concurrent enrollment in Anthropology 1.

Three hours laboratory.

Laboratory course in which the students apply and practice the scientific methods, techniques and procedures used by physical anthropologists to understand human evolution, non human primates and human variation. Students gain practical experience and a deeper understanding by participating in lab exercises, activities and experiments that explore human evolution, osteology, forensics, genetics, modern human variation, primate anatomy and behavior.

ANTH 2 Cultural Anthropology 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

The anthropological approach to the study of human behavior from a cross-cultural, comparative perspective. An exploration into the languages, subsistence, economics, sociopolitical systems, religions, and world views of diverse world cultures. An assessment of the dynamics of culture change and the future prospects for humanity.

ANTH 3 Introduction to Archeology 4 Units

(Formerly Anthropology 55.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Introduction to the field of archaeology within the discipline of anthropology including discussion of scientific methods, the history of archaeology, field and laboratory methods used in the analysis of archaeological data, and theories used to interpret the past. This course explores how archaeologists recover, analyze material and reconstruct ancient cultures and societies. Archaeological ethics and real-world issues concerning looting, collecting, preservation, and the role of indigenous peoples will be examined.

ANTH 4 World Prehistory 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Worldwide patterns of cultural transformation, from the earliest foraging societies to the development of agrarian states. The prehistoric interpretation of these changes based upon the comparison of archaeological evidence from Africa, Asia, Europe, the Middle East, the Americas, and Oceania.

ANTH 6 Linguistic Anthropology 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

A cross-cultural investigation into the relationship between language and culture: language as a human attribute; language structure, historical origins, diversification, and change; gender and cultural variations in language usage; comparative analysis and classification of world languages; the origins and development of writing; microelectronics and the advent of the information age; globalization and language.

ANTH 69 Early Childhood Education Principles and Practices (Cross-Cultural Emphasis) 3 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Child Development 69. Student may enroll in either department, but not both, for credit.)

Three hours lecture.

The underlying principles of early education, in which national, state, and local practices will be examined in contrast to options presented through ethnographic data of diverse cultures.

Arabic Language

ARBC 1 Elementary Arabic (First Quarter) 5 Units

(Formerly Arabic 91.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Introduction to the language and cultures of the Arabic-speaking world. Development and practice of elementary speaking, listening, reading, and writing skills in targeted language functions with Arabic as the primary language of instruction. Introduction to basic geographical, historical and cultural aspects of Arabic-speaking world areas. Language laboratory practice will be part of the regular instruction to reinforce pronunciation, grammar, syntax, and conversation.

ARBC 2 Elementary Arabic (Second Quarter) 5 Units

(Formerly Arabic 92.)

Prerequisite: Arabic 1 (equivalent to one year of high school Arabic) or equivalent.

Five hours lecture.

Continuation of elementary speaking, listening, reading, and writing skills in targeted language functions, with Arabic as the primary language of instruction. Focus on greater structural accuracy and communicative competence. Study of basic geographical, historical, and cultural features of Arabic-speaking world areas.

ARBC 3 Elementary Arabic (Third Quarter) 5 Units

(Formerly Arabic 93.)

Prerequisite: Arabic 2 (equivalent to two years of high school Arabic) or equivalent.

Five hours lecture.

Continuation of elementary speaking, listening, reading, and writing skills in targeted language functions, with Arabic as the primary language of instruction. Focus on greater structural accuracy and communicative competence. Study of basic geographical, historical, and cultural features of Arabic-speaking world areas.

ARBC 4 Intermediate Arabic (First Quarter) 5 Units*(Formerly Arabic 94.)**Prerequisite: Arabic 3 (equivalent to three years of high school Arabic) or equivalent.**Five hours lecture.*

Reading and discussion of texts dealing with the literature, arts, geography, history, and culture of the Arabic-speaking world. Review of the linguistic functions and grammar structures of first-year Arabic. Emphasis is placed on the functional usage of Arabic and communication in context in the four language skills: reading, writing, speaking and listening.

ARBC 5 Intermediate Arabic (Second Quarter) 5 Units*(Formerly Arabic 95.)**Prerequisite: Arabic 4 (equivalent to four years of high school Arabic) or equivalent.**Five hours lecture.*

Continuation of Intermediate Arabic. Reading and discussion of texts dealing with the literature, arts, geography, history, and culture of the Arabic-speaking world. Review of the linguistic functions and grammar structures of first-year Arabic. Emphasis is placed on the functional usage of Arabic and communication in context in the four language skills: reading, writing, speaking and listening.

ARBC 6 Intermediate Arabic (Third Quarter) 5 Units*(Formerly Arabic 96.)**Prerequisite: Arabic 5 or equivalent.**Five hours lecture.*

Continuation of intermediate Arabic. Reading and discussion of texts dealing with the literature, arts, geography, history, and culture of the Arabic-speaking world. Review of the linguistic functions and grammar structures of first-year Arabic. Emphasis is placed on the functional usage of Arabic and communication in context in the four language skills: reading, writing, speaking and listening.

Army Reserve Officers Training Corps**(ROTC)** For information on Army ROTC, please see Military Studies.**Arts****ARTS 1A Introduction to the Visual Arts 4 Units***(See general education pages for the requirement this course meets.)**Advisory: English Writing 1A or English as a Second Language 5.**Four hours lecture.*

An exploration of visual imagery throughout the world, for the purpose of refining visual literacy skills. Works of art will be studied by means of formal analysis and medium, the social experiences of artists, the function of works of art in their original environment, and comparison of works from different cultures. Primary emphasis will be on paintings, graphic works, and sculpture.

ARTS 1B Architecture Past and Present 4 Units*(See general education pages for the requirement this course meets.)**Advisory: English Writing 1A or English as a Second Language 5.**Four hours lecture.*

An exploration of architecture throughout the world, for the purpose of refining visual literacy skills. Works of architecture will be studied comparatively with regard to form and function, and numerous architectural concepts will be examined.

ARTS 2A History of Art (Europe from Prehistory through Early Christianity) 4 Units*(See general education pages for the requirement this course meets.)**Advisory: English Writing 1A or English as a Second Language 5.**Four hours lecture.*

An introduction to the discipline of art history through analysis of images, objects, and works of architecture produced from the prehistoric period of European history through approximately the year 600 C.E., including discussion of Stone Age, Mesopotamian, Egyptian, Greek, Etrurian, Roman, and Byzantine cultures.

ARTS 2B History of Art (Europe During the Middle Ages and the Renaissance) 4 Units*(See general education pages for the requirement this course meets.)**Advisory: English Writing 1A or English as a Second Language 5.**Four hours lecture.*

An introduction to the discipline of art history through analysis of images, objects, and works of architecture produced from approximately 600 through 1600 C.E., including discussion of Islamic and European cultures during the Middle Ages, and the art of the Renaissance (including Mannerism) in both northern and southern Europe.

ARTS 2C History of Art (Europe from the Baroque Period through Impressionism) 4 Units*(See general education pages for the requirement this course meets.)**Advisory: English Writing 1A or English as a Second Language 5.**Four hours lecture.*

An introduction to the discipline of art history through analysis of images, objects, and works of architecture produced in Europe from c. 1600 through the 1880s, including discussion of both northern and southern European cultures.

ARTS 2D History of Art (Europe and the United States from Post-Impressionism to the Present) 4 Units*(See general education pages for the requirement this course meets.)**Advisory: English Writing 1A or English as a Second Language 5.**Four hours lecture.*

An introduction to the discipline of art history through analysis of images, objects, and works of architecture produced from the 1880s to the present, including discussion of numerous European and American cultural groups.

ARTS 2F History of Art (Multicultural Arts in the United States) 4 Units*(See general education pages for the requirement this course meets.)**Advisory: English Writing 1A or English as a Second Language 5.**(Also listed as Intercultural Studies 5. Student may enroll in either department, but not both, for credit.)**Four hours lecture.*

A cross-cultural introduction to American art history which includes interdisciplinary analysis of diverse art forms generated by artists of color, including African Americans, Asian Americans, Native Americans, Latina(o)s/ Chicana(o)s, and Americans of non-European heritage. Significant attention will be given to issues considered important by each ethnicity or group as well as issues related to racism, gender, and social class. Traditions, values, and cultural expressions of diverse societies and their contributions to American visual culture are explored.

ARTS 2G History of Art (Arts of Asia) 4 Units*(See general education pages for the requirement this course meets.)**Advisory: English Writing 1A or English as a Second Language 5.**(Also listed as International Studies 10. Student may enroll in either department, but not both, for credit.)**Four hours lecture.*

A general introduction to art through major Asian artistic traditions. Focuses upon paintings, sculptures, ceramics, and architecture and their religious, cultural, historical, and social contexts. Examines arts from China, Japan, India, Central Asia, Himalayas, and Southeast Asia and assesses the contributions of Asian art in a global context.

ARTS 2H History of Art: Native Arts of Mesoamerica and South America 4 Units*(Formerly Arts 67.)**(See general education pages for the requirement this course meets.)**Advisory: English Writing 1A or English as a Second Language 5.**(Also listed as International Studies 21. Student may enroll in either department, but not both, for credit.)**Four hours lecture.*

A general introduction to the visual arts of the indigenous cultures of Mesoamerica, an area extending from northern Mexico through Central America, and the Andean region of South America. This course covers diverse art forms, including architecture, ceramics, weaving, painting and sculpture from antiquity to the present. Topics addressing the religious, cultural, social, economic and political contexts of the art will be explored. Compares indigenous arts of the Americas to other world art traditions and assesses the contributions of indigenous cultures in a global context.

ARTS 2J History of Art: Indigenous Arts of the World 4 Units*(See general education pages for the requirement this course meets.)**Advisory: English Writing 1A or English as a Second Language 5.**(Also listed as International Studies 22. Student may enroll in either department, but not both, for credit.)**Four hours lecture.*

A general introduction to some of the many indigenous art traditions around the world, with emphasis placed upon traditional arts created for use in small-scale communities from the Americas, South Pacific region and Africa. Diverse art forms covered will include sculpture, painting, performance, ceramics, textiles and architecture from antiquity through the colonial period to the present. Topics addressing the religious, cultural, social, economic and political contexts of the art will be explored. Compares arts from indigenous peoples to other world art traditions and assesses the contributions of indigenous arts in a global context.

ARTS 2K	History of Art: Visual Arts of Islam	4 Units	ARTS 4B	Intermediate Drawing	3 Units
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. (Also listed as International Studies 23. Student may enroll in either department, but not both, for credit.) Four hours lecture. An exploration of the visual arts of Islam in a global context, including comparative analysis of the arts from diverse regions of the Islamic world. Examines artistic traditions of calligraphy, miniature painting, textiles, decorative arts and architecture from the beginnings of the Islamic faith to the present, and Islamic contributions to world art history. Includes interdisciplinary analysis of Islamic visual arts, emphasizing the cultural and religious contexts, as well as issues related to gender and social class.			Prerequisite: Arts 4A. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Arts 8. Six hours lecture-laboratory. (Any combination of Arts 4A, 4B, 4C and 4D may be taken up to six times, not to exceed 18 units, for the family of courses.) An intermediate drawing course focusing on the creative interpretation of subject matter utilizing a variety of experimental, as well as traditional, techniques and media.		
ARTS 2L	History of Art: Visual Arts of Africa	4 Units	ARTS 4C	Life Drawing	3 Units
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. (Also listed as International Studies 24. Student may enroll in either department, but not both, for credit.) Four hours lecture. A general introduction to the visual arts of Africa, covering diverse art forms, including sculpture, painting, performance, ceramics, textiles and architecture from antiquity through the colonial period to the present. Topics addressing the religious, cultural, social, economic and political contexts of the art will be explored. Compares arts from Africa to other world art traditions and assesses the contributions of African arts in a global context.			Prerequisite: Arts 4A. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Arts 4B, 4D and 8. Six hours lecture-laboratory. (Any combination of Arts 4A, 4B, 4C and 4D may be taken up to six times, not to exceed 18 units, for the family of courses.) A beginning drawing course focusing on the representation and interpretation of the human figure; with attention to drawing from life.		
ARTS 3TC	Women and Art	4 Units	ARTS 4D	Representational Drawing	3 Units
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. (Also listed as Women's Studies 3C. Student may enroll in either department, but not both, for credit.) Four hours lecture. A history of women in relation to society and the visual arts from prehistory to the present. Social perceptions and obstacles relevant to women artists will be discussed, and students will engage in cross-cultural comparison of works produced in western and non-western cultures made by women, and in which women serve as subject matter.			(Formerly Arts 74.) Prerequisite: Arts 4A. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Arts 8. Six hours lecture-laboratory. (Any combination of Arts 4A, 4B, 4C and 4D may be taken up to six times, not to exceed 18 units, for the family of courses.) An intermediate level drawing course concentrating on observation and depiction of volume and perspective in a variety of drawing media.		
ARTS 8	Two-Dimensional Design	3 Units	ARTS 10A	Three-Dimensional Design	3 Units
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Six hours lecture-laboratory. A foundation course in the use of fundamental design elements and principles for two-dimensional art.			Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. Six hours lecture-laboratory. (May be taken twice for credit; the topics will change every quarter.) Introduction to design elements and principles as they apply to three-dimensional space and form. Idea exploration in various media including clay, plaster, paper, wood and metals. Assignments will vary according to the quarter.		
ARTS 10B	Intermediate Three-Dimensional Design	3 Units	ARTS 12	Design and Color	3 Units
Prerequisite: Arts 10A. Six hours lecture-laboratory. (May be taken two times for credit; the topics will change every quarter.) Further exploration and continuation of three-dimensional design focusing on individual projects. Use of various materials including wood, metals, plastic sheet and resin. Introduction of mold making and casting. Assignments will vary according to the quarter.			Prerequisite: Arts 4A and 8. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Six hours lecture-laboratory. A fundamental course exploring theory and color in the visual arts.		
ARTS 14A	Watercolor Painting I	3 Units	ARTS 14B	Watercolor Painting II	3 Units
(Formerly Arts 14.) Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Arts 4A or 8. Six hours lecture-laboratory. (Any combination of Arts 14A, 14B and 14C may be taken up to six times, not to exceed 18 units, for the family of courses as long as the topics/projects are different each time.) A comprehensive introduction to transparent watercolor painting with emphasis on basic techniques.			Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Six hours lecture-laboratory. (Any combination of Arts 14A, 14B and 14C may be taken up to six times, not to exceed 18 units, for the family of courses as long as the topics/projects are different each time.) A continuation of Arts 14A with further emphasis on basic transparent watercolor techniques that relate to the unusual characteristics of the medium, including the use of watercolor pencils and aquarelle crayons in monotype.		

ARTS 14C Watercolor Painting III 3 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours lecture-laboratory.

(Any combination of Arts 14A, 14B and 14C may be taken up to six times, not to exceed 18 units, for the family of courses as long as the topics/projects are different each time.)

A continuation of Arts 14B with emphasis on transparent and opaque watercolor techniques. Assignments in class will explore the aesthetic concerns of developing styles, ideas, content and self expression within the watercolor medium.

ARTS 15A Acrylic Painting I 3 Units

Prerequisite: Arts 4A and 12.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours lecture-laboratory.

(Any combination of Arts 15A, 15B and 15C may be taken up to six times, not to exceed 18 units, for the family of courses.)

An introductory course in acrylic painting with emphasis on basic techniques in both traditional and contemporary techniques that relate to the unusual characteristics of the medium.

ARTS 15B Acrylic Painting II 3 Units

Prerequisite: Arts 15A.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours lecture-laboratory.

(Any combination of Arts 15A, 15B and 15C may be taken up to six times, not to exceed 18 units, for the family of courses.)

A continuation of Arts 15A with further emphasis on basic techniques that relate to the unusual characteristics of the medium. Surfaces other than canvas will be introduced allowing for more varied results.

ARTS 15C Acrylic Painting III 3 Units

Prerequisite: Arts 15B.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours lecture-laboratory.

(Any combination of Arts 15A, 15B and 15C may be taken up to six times, not to exceed 18 units, for the family of courses.)

A continuation of Arts 15B with emphasis on process rather than techniques. Problems in class will relate to aesthetic concerns of idea, content and expression within the acrylic medium.

ARTS 16A Oil Painting I 3 Units

Prerequisite: Arts 4A and 12.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours lecture-laboratory.

(Any combination of Arts 16A, 16B and 16C may be taken up to six times, not to exceed 18 units, for the family of courses.)

An introductory oil painting course exploring the application of the media as it relates to the production of artwork through the translation of visual information. Preparation, concept and craft are fundamental as applied to aesthetic concerns.

ARTS 16B Oil Painting II 3 Units

Prerequisite: Arts 16A.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours lecture-laboratory.

(Any combination of Arts 16A, 16B and 16C may be taken up to six times, not to exceed 18 units, for the family of courses.)

A continuation of Arts 16A with further emphasis on basic techniques that relate to the unusual characteristics of the medium. Conceptual studies, color theory and aesthetics are primary concerns. Surfaces other than canvas will be required.

ARTS 16C Oil Painting III 3 Units

Prerequisite: Arts 16B.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours lecture-laboratory.

(Any combination of Arts 16A, 16B and 16C may be taken up to six times, not to exceed 18 units, for the family of courses.)

A continuation of Arts 16B with emphasis on process rather than techniques. Primary concerns include shaped canvasses, glazing techniques, ideas, expression, and aesthetics relating to the oil medium.

ARTS 17 Introduction to Muralism: Democracy in Action 3 Units

(Formerly Arts 64.)

Advisory: English Writing 1A or English as a Second Language 5.

Six hours lecture-laboratory.

Explores the application of traditional mural making processes and techniques in combination with the practices of building community through civic engagement. The course will examine the connection between the arts and community and the role they can play in building bridges and strengthening democratic practices.

ARTS 18A Ceramics 3 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Six hours lecture-laboratory.

(May be taken two times for credit. Students build upon previous experience and develop higher-level skills.)

Survey of ceramic construction techniques. Use of surface decoration, glazes, and ceramic kiln firing.

ARTS 18B Ceramics (Beginning Wheel Throwing) 3 Units

Prerequisite: Arts 18A.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Six hours lecture-laboratory.

(May be taken two times for credit. Students build upon previous experience and develop higher-level skills.)

Beginning techniques of throwing on the potter's wheel. Forming, shaping, trimming, and decorating basic wheel thrown pieces. Use of stoneware firing techniques and processes in Ceramics (Arts 18A).

ARTS 18C Ceramics (Intermediate Wheel Throwing) 3 Units

Prerequisite: Arts 18B.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Six hours lecture-laboratory.

(May be taken two times for credit. Students build upon previous experience and develop higher-level skills.)

Intermediate techniques of throwing on the potter's wheel. Forming, shaping, trimming, and surface development of intermediate wheel thrown pieces. Build upon throwing techniques and processes in Beginning Wheel Throwing (Arts 18B).

ARTS 18D Ceramics Hand Building 3 Units

(Formerly Arts 66D.)

Prerequisite: Arts 18A.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Six hours lecture-laboratory.

(May be taken two times for credit. Students build upon previous experience and develop higher-level skills.)

Ceramic construction techniques: use of pinch, coil and slab processes. Use of a variety of clay bodies and various firing techniques associated with functional and non-functional ceramic work.

ARTS 18E Ceramics (Advanced Wheel Throwing) 3 Units

(Formerly Arts 80.)

Prerequisite: Arts 18C.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Six hours lecture-laboratory.

(May be taken two times for credit. Students build upon previous experience and develop higher-level skills.)

Advanced techniques of throwing on the potter's wheel. Introduction to combined forms and developing the vessel as an aesthetic object. Development of shapes, function and individual expression with clay.

ARTS 19G Ceramic Glaze Calculation 3 Units

Prerequisite: Arts 18A.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Six hours lecture-laboratory.

(May be taken two times for credit. Students build upon previous experience and develop higher-level skills.)

Glaze calculation, application, study of ceramic materials, kiln firing techniques with student developed glazes.

ARTS 19H Ceramics Raku 3 Units

Prerequisite: Arts 18A.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Six hours lecture-laboratory.

(May be taken two times for credit. Students build upon previous experience and develop higher-level skills.)

Historical development, firing techniques, glaze, kilns and clay-bodies, for the Raku ceramic process.

ARTS 191	Ceramic Sculpture	3 Units	ARTS 37C	Advanced Sculpture	3 Units
Prerequisite: Arts 18A. Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. Six hours lecture-laboratory. (May be taken two times for credit. Students build upon previous experience and develop higher-level skills.) Use of clay as a sculptural and expressive medium: texture, surface, dimensionality, and form.			Prerequisite: Arts 37B. Six hours lecture-laboratory. (Any combination of Arts 37A, 37B and 37C may be taken up to six times, not to exceed 18 units, for the family of courses as long as the topics are different each time.) Advanced sculpture with an emphasis on idea development, visual investigation and the sculpture making process. Additional materials and processes will be examined and demonstrated. Assignments will vary according to the quarter.		
ARTS 19J	Ceramic Techniques	3 Units	ARTS 50	Ceramics Primitive Firing	3 Units
Prerequisite: Arts 18A. Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. Six hours lecture-laboratory. (May be taken two times for credit. Students build upon previous experience and develop higher-level skills.) Techniques of hand-building and wheel construction combined: experimental glazing and texturing treatments.			Prerequisite: Arts 18A. Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. Six hours lecture-laboratory. (May be taken two times for credit. Students build upon previous experience and develop higher-level skills.) Construction and utilization of primitive fire kilns, including pit, sawdust, raku, and dung. Practical experience in firing technique.		
ARTS 19K	Ceramic Decoration	3 Units	ARTS 51	Ceramics Kiln Construction	3 Units
Prerequisite: Arts 18A. Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. Six hours lecture-laboratory. (May be taken two times for credit. Students build upon previous experience and develop higher-level skills.) Surface treatments and refinement used in the production of stoneware, earthenware, and porcelain.			(Formerly Arts 19L.) Prerequisite: Arts 18A. Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. Six hours lecture-laboratory. (May be taken two times for credit. Students build upon previous experience and develop higher-level skills.) Design, construction and utilization of kilns, including raku, high fire, gas and electric. Practical experience in firing technique.		
ARTS 19M	Ceramics Low Fire	3 Units	ARTS 53A	Introduction to Visual Technology	3 Units
Prerequisite: Arts 18A. Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. Six hours lecture-laboratory. (May be taken two times for credit. Students build upon previous experience and develop higher-level skills.) Survey of earthenware as a ceramic material. Use of surface decoration, glazes, and ceramic kiln firing.			Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Arts 8. Six hours lecture-laboratory. A survey of the computer based electronic technology used by visual artists and designers. Student projects explore the creative potential of basic program options and experience how each relates to today's electronic media environment. Introductory use of Adobe Photoshop, Adobe Illustrator, Adobe Flash and Adobe InDesign.		
ARTS 19N	Ceramics Porcelain	3 Units	ARTS 53B	Introduction to Visual Technology	3 Units
(Formerly Arts 64N.) Prerequisite: Arts 18A. Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. Six hours lecture-laboratory. (May be taken two times for credit. Students build upon previous experience and develop higher-level skills.) Survey of porcelain as a ceramic material. Use of surface decoration, glazes, and ceramic kiln firing.			Prerequisite: Arts 53A. Six hours lecture-laboratory. Introductory use of art and design software for the computer. Emphasis on the creative process and the computer as a tool used by artists and designers today. Software used includes Adobe Photoshop.		
ARTS 20	Ceramics Individual Laboratory	2 Units	ARTS 55A	Graphic Design-Communication	3 Units
Prerequisite: Arts 18A. Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. Six hours laboratory. (May be taken up to six times for credit. Students build upon previous experience and develop higher-level skills.) Supervised use of ceramic studio equipment for independent skill development; hand building, wheel throwing, kiln firing.			Prerequisite: Arts 53A. Six hours lecture-laboratory. The analysis and interpretation of the elements and principles of design as applied to the practice of graphic design and visual communication. Emphasis on the design process from visualization to production. Software used includes Adobe Photoshop and Adobe Illustrator.		
ARTS 37A	Sculpture	3 Units	ARTS 55B	Graphic Design-Communication	3 Units
Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Mathematics 210 or equivalent; Arts 10A. Six hours lecture-laboratory. (Any combination of Arts 37A, 37B and 37C may be taken up to six times, not to exceed 18 units, for the family of courses as long as the topics are different each time.) Beginning sculpture, with an emphasis on idea development, visual investigation and the sculpture making process, including construction, carving, casting and mixed media. Assignments will vary according to the quarter.			Prerequisite: Arts 55A. Six hours lecture-laboratory. Continuation of the analysis and interpretation of the elements and principles of design as applied to the practice of graphic design and visual communication. Emphasis on the design process from visualization to production techniques. Software used includes Adobe Photoshop, Adobe Illustrator, and Macromedia Flash.		
ARTS 37B	Intermediate Sculpture	3 Units	ARTS 55C	Graphic Design - Communication: Production Techniques	3 Units
Prerequisite: Arts 37A. Six hours lecture-laboratory. (Any combination of Arts 37A, 37B and 37C may be taken up to six times, not to exceed 18 units, for the family of courses as long as the topics are different each time.) Intermediate sculpture with further emphasis on further formulation of idea development, visual investigation and its making process. Additional materials and processes will be examined. Assignments will vary according to the quarter.			Prerequisite: Arts 55A and 55B; or demonstration of appropriate technical abilities suitable to course level. Six hours lecture-laboratory. Introductory course in the preparation of art for reproduction on the printed page, interactive media, and the World Wide Web. Emphasis is placed on specific studio procedures as well as computer production alternatives used by professionals in the field of graphic design. Software used includes Adobe Photoshop, Adobe Illustrator and Macromedia Flash.		
			ARTS 56	Computer-Aided Graphic Design: Electronic Publishing	3 Units
			Prerequisite: Arts 53A. Advisory: Arts 55A. Six hours lecture-laboratory. Analysis and interpretation of the elements and principles of design as applied to the practice of publication design. Emphasis on the design process as it relates to the use of the computer to create type and image in electronic publishing. Software used includes Adobe Photoshop, Adobe Illustrator, Adobe PageMaker and QuarkXPress.		

ARTS 57	Graphic Design-Typography	3 Units
<i>Prerequisite:</i> Arts 53A and 55A. <i>Six hours lecture-laboratory.</i> Interpretation of the elements and principles of design as applied to the use of typography in graphic design. Emphasis on the integration and selection of letter forms and type styles as they relate to the production for the printed page, multimedia design and the World Wide Web. Software used includes Adobe Photoshop, Adobe Illustrator, and Adobe InDesign.		
ARTS 58A	Furniture Design	3 Units
<i>Advisory:</i> English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Mathematics 210 or equivalent; Arts 10A. <i>Six hours lecture-laboratory.</i> (Any combination of Arts 58A, 58B and 58C may be taken up to six times, not to exceed 18 units, for the family of courses as long as the topics are different each time.) Beginning furniture design with emphasis on developing basic skills in design, construction and craftsmanship. Assignments will vary according to the quarter.		
ARTS 58B	Intermediate Furniture Design	3 Units
<i>Prerequisite:</i> Arts 58A. <i>Six hours lecture-laboratory.</i> (Any combination of Arts 58A, 58B and 58C may be taken up to six times, not to exceed 18 units, for the family of courses as long as the topics are different each time.) Intermediate furniture design, with an emphasis on a broader range of skills in design, construction and craftsmanship. Assignments will vary according to the quarter.		
ARTS 58C	Advanced Furniture Design	3 Units
<i>Prerequisite:</i> Arts 58B. <i>Six hours lecture-laboratory.</i> (Any combination of Arts 58A, 58B and 58C may be taken up to six times, not to exceed 18 units, for the family of courses as long as the topics are different each time.) Advanced furniture design, with an emphasis on individual projects and further development on skills design, construction and craftsmanship. Assignments will vary according to the quarter.		
ARTS 59	History of Graphic Design	4 Units
<i>Advisory:</i> English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. <i>Four hours lecture.</i> A history of word and image from the Industrial Revolution, through the Modernist Era and the Information Age. Emphasis is placed on the impact of industrial technology in the first half of the Twentieth Century and the importance of graphic design in the global village. Topics will include the origins of printing and typography in the industrial age and postmodern design.		
ARTS 63	Business Practices for Graphic Designers	3 Units
<i>Advisory:</i> English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. <i>Three hours lecture.</i> Introduction to the range of business practices used by artists and designers in the visual communications industry. Emphasis will be placed on legal rights and issues as they relate to the professional artist/client relationship. Topics will include pricing and marketing, salaries and trade customs, standard contracts, and new technology issues.		
ARTS 65	Graphic Design for the World Wide Web	3 Units
<i>Prerequisite:</i> Arts 53A and 53B. <i>Advisory:</i> Computer Information Systems 89. <i>Six hours lecture-laboratory.</i> Hands-on web page design fundamentals. Emphasis is on the creative integration of type and image as related to the World Wide Web. Topics will include: navigation software, site content and organization, site layout, scanning and importing imagery, file formats, and typography issues.		
ARTS 70	Viewing Bay Area Art Museums and Galleries	1 Unit
<i>Advisory:</i> English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. <i>Three hours laboratory.</i> (May be taken up to six times for credit as long as the topics/projects are different each time.) Designed to develop skills in art gallery/museum viewing and critical analysis of content of exhibits, collections and/ or lectures.		
ARTS 71	Gallery and Exhibition Design	3 Units
<i>Advisory:</i> English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Arts 4A or 8. <i>Six hours lecture-laboratory.</i> The practical experience in all aspects of exhibition design and installation of art exhibits in galleries and museums. Emphasis on design theory and the evaluation and analysis of the communicative, cultural, aesthetic, technical factors involved in the production of exhibits.		

ARTS 72	Internship in Art	1 Unit
<i>Advisory:</i> English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Arts 1A, 4A, 8, 10A, and 71. <i>Three hours laboratory.</i> (May be taken up to six times for credit as long as the topics/projects are different each time.) Directed professional experience in art museums/galleries, art businesses, and art in schools programs in the Bay Area that emphasize the application of skills and knowledge obtained in Gallery and Exhibition Design (Arts 71), Beginning Drawing (Arts 4A), Basic Design (Arts 8), and Three-Dimensional Design (Arts 10A).		
ARTS 77	Special Projects	1 Unit
ARTS 77X		2 Units
ARTS 77Y		3 Units
<i>(Formerly Arts 40, 40X and 40Y respectively.)</i> <i>Prerequisite:</i> Consent of instructor. <i>Advisory:</i> Successful completion of any art course. <i>Three hours laboratory for each unit of credit.</i> (Any combination of Arts 77, 77X and 77Y may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.) Individual advanced projects in painting, drawing, ceramics, sculpture, art history, furniture design and museum studies.		
ARTS 85	Motion Graphics	3 Units
<i>Prerequisite:</i> Arts 55B. (Also listed as Film/Television 85. Student may enroll in either department, but not both, for credit.) <i>Six hours lecture-laboratory.</i> The analysis and interpretation of the art and design involved in the production of "on-the-air" graphic design. The creative integration of "type" and "image" in motion is stressed through the use of directed laboratory exercises. Software used includes Adobe Photoshop, Adobe Premier, Macromedia FreeHand, Macromedia Director, Macromedia Flash.		
ARTS 86	Electronic Illustration Techniques	3 Units
<i>Prerequisite:</i> Arts 53A and 53B. <i>Three hours lecture, three hours laboratory.</i> Introduction to industry standard software related to the creation and implementation of computer generated illustration. Emphasis is on verbal-visual relationships and the integration of type and image in contemporary illustration. Topics will include: illustration software options; concept and problem solving; style and personal expression; story board and broadcast illustration; and 3D illustration dynamics.		
ARTS 112A	Digital Imaging Software (Photoshop)	4 Units
<i>(Students may receive credit for either Computer Applications and Office Systems 112A (or 112I and 112Q); Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).)</i> <i>Advisory:</i> English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 90GA. (Also listed as CAD and Digital Imaging 112A and Computer Applications and Office Systems 112A. Student may enroll in only one department for credit.) <i>Eight hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Basic and intermediate principles using digital imaging software to produce graphics for Web sites. Introduction to digital imaging terminology and software. This course is for the content person to produce Web pages using digital images.		
ARTS 112I	Digital Imaging Software I (Photoshop)	2 Units
<i>(Students may receive credit for either Computer Applications and Office Systems 112A (or 112I and 112Q); Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).)</i> <i>Advisory:</i> English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 90GA. (Also listed as CAD and Digital Imaging 112I and Computer Applications and Office Systems 112I. Student may enroll in only one department for credit.) <i>Four hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Basic principles of using digital imaging software to produce graphics for Web sites. Introduction to digital imaging terminology and software. This course is for the content person to produce Web pages using digital images.		

ARTS 112Q Digital Imaging Software II (Photoshop) 2 Units

(Students may receive credit for either Computer Applications and Office Systems 112A (or 112I and 112Q); or Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).)

Prerequisite: Arts 112I or CAD and Digital Imaging 112I or Computer Applications and Office Systems 112I.

(Also listed as CAD and Digital Imaging 112Q and Computer Applications and Office Systems 112Q. Student may enroll in only one department for credit.)

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic and intermediate principles of using digital imaging software to produce graphics for Web sites. Introduction to digital imaging terminology and software. This course is for the content person to produce Web pages using digital images.

ARTS 113A Web Authoring Software (Dreamweaver) 4 Units

(Students may receive credit for either Computer Applications and Office Systems 113A (or 113I and 113Q); or Arts 113A (or 113I and 113Q).)

Prerequisite: Computer Applications and Office Systems 90GA, 102K, 102L, 102M, or 102T.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Computer Applications and Office Systems 113A. Student may enroll in either department, but not both, for credit.)

Eight hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic and intermediate principles of building Web pages/sites using Web authoring software. Introduction to Web authoring terminology and software. This course is for the content person to develop and maintain an effective Web site.

ARTS 113I Web Authoring Software I (Dreamweaver) 2 Units

(Students may receive credit for either Computer Applications and Office Systems 113A (or 113I and 113Q); or Arts 113A (or 113I and 113Q).)

Prerequisite: Computer Applications and Office Systems 90GA, 102K, 102L, 102M, or 102T.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Computer Applications and Office Systems 113I. Student may enroll in either department, but not both, for credit.)

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic principles of building Web pages/sites using Web authoring software. Introduction to Web authoring terminology and software. This course is for the content person to develop and maintain an effective Web site.

ARTS 113Q Web Authoring Software II (Dreamweaver) 2 Units

(Students may receive credit for either Computer Applications and Office Systems 113A (or 113I and 113Q); or Arts 113A (or 113I and 113Q).)

Prerequisite: Arts 113I or Computer Applications and Office Systems 113I.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Computer Applications and Office Systems 113Q. Student may enroll in either department, but not both, for credit.)

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Intermediate principles of building Web pages/sites using Web authoring software. Expansion of Web authoring terminology and use of more advanced software features. This course is for the content person to develop and maintain an effective Web site.

ARTS 114A Web Graphics/Animation Software (Flash) 3 Units

(Students may receive credit for either Computer Applications and Office Systems 114A (or 114I and 114Q); or Arts 114A (or 114I and 114Q); or CAD and Digital Imaging 114A.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 112A (or 112I and 112Q); or Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).

(Also listed as CAD and Digital Imaging 114A and Computer Applications and Office Systems 114A. Student may enroll in only one department for credit.)

Six hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic and intermediate principles of graphics/animation for the Web. Web graphics/animation terminology and software. This course is for the content person to build a Web site.

ARTS 114I Web Graphics/Animation Software I (Flash) 1 1/2 Units

(Students may receive credit for either Computer Applications and Office Systems 114A (or 114I and 114Q); or Arts 114A (or 114I and 114Q); or CAD and Digital Imaging 114A.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 112A (or 112I and 112Q); or Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).

(Also listed as Computer Applications and Office Systems 114I. Student may enroll in either department, but not both, for credit.)

Three hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic principles of graphics/animation for the Web. Introduction to Web graphics/animation terminology and software. This course is for the content person to build a Web site.

ARTS 114Q Web Graphics/Animation Software II (Flash) 1 1/2 Units

(Students may receive credit for either Computer Applications and Office Systems 114A (or 114I and 114Q); or Arts 114A (or 114I and 114Q); or CAD and Digital Imaging 114A.)

Prerequisite: Computer Applications and Office Systems 114I or Arts 114I.

(Also listed as Computer Applications and Office Systems 114Q. Student may enroll in either department, but not both, for credit.)

Three hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Intermediate principles of graphics/animation for the Web. Expansion of Web graphics/animation terminology and software. This course is for the content person to build a Web site.

ARTS 116A Web Development Graphics Software (Illustrator) 4 Units

(Students may receive credit for either Computer Applications and Office Systems 116A (or 116I and 116Q); or Arts 116A (or 116I and 116Q); or CAD and Digital Imaging 116A.)

Prerequisite: Computer Applications and Office Systems 112A (or 112I and 112Q); or Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as CAD and Digital Imaging 116A and Computer Applications and Office Systems 116A. Student may enroll in only one department for credit.)

Eight hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic and intermediate principles of using vector-based graphics software to produce graphics for Web sites. Introduction to vector-based graphics terminology and software. This course is for the content person to produce vector graphic images.

ARTS 116I Web Development Graphics Software I (Illustrator) 2 Units

(Students may receive credit for either Computer Applications and Office Systems 116A (or 116I and 116Q); or Arts 116A (or 116I and 116Q); or CAD and Digital Imaging 116A.)

Prerequisite: Computer Applications and Office Systems 112A (or 112I and 112Q); or Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Computer Applications and Office Systems 116I. Student may enroll in either department, but not both, for credit.)

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic principles of using vector-based graphics software to produce graphics for Web sites. Introduction to vector-based graphics terminology and software. This course is for the content person to produce vector graphic images.

ARTS 116Q Web Development Graphics Software II 2 Units

(Students may receive credit for either Computer Applications and Office Systems 116A (or 116I and 116Q); or Arts 116A (or 116I and 116Q); or CAD and Digital Imaging 116A.)

Prerequisite: Computer Applications and Office Systems 116I or Arts 116I.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Computer Applications and Office Systems 116Q. Student may enroll in either department, but not both, for credit.)

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic and intermediate principles of using vector-based graphics software to produce graphics for Web sites. Introduction to vector-based graphics terminology and software. This course is for the content person to produce vector graphic images.

ARTS 117A Advanced Digital Imaging Software (Photoshop) 3 Units

Prerequisite: Computer Applications and Office Systems 112A, or Arts 112A, or CAD and Digital Imaging 112A.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 90GA.

(Also listed as CAD and Digital Imaging 117A and Computer Applications and Office Systems 117A. Student may enroll in only one department for credit.) Six hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Advanced principles and techniques of using digital imaging software to produce graphics for Web sites and printed media. Integration of digital imaging software with Web authoring software. This course is for the content person wishing to produce digital images for Web pages and print media.

ARTS 118A Advanced Web Graphics/ Animation Software (Flash) 3 Units

Prerequisite: Computer Applications and Office Systems 114A, or Arts 114A, or CAD and Digital Imaging 114A.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 90GA.

(Also listed as CAD and Digital Imaging 118A and Computer Applications and Office Systems 118A. Student may enroll in only one department for credit.) Six hours lecture-laboratory.

Pass-No Pass (P-NP) course.

An advanced Flash course that is projects and portfolio based and taught from a designer perspective. Students will be taught how to build a portfolio and animated multimedia presentation. Basic programming skills will be taught along with developing interactive Web-based multimedia presentations using ActionScripts, sound and graphics.

Astronomy

ASTR 4 Solar System Astronomy 5 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Five hours lecture.

Analyze the physical principles, logic, and development of solar system astronomy from ancient times through the present. Examine earth and sky relationships, exploration of the solar system by spacecraft and earth-based methods, similarities and differences between Earth and other planets, theories of the origin of our planetary system, and properties of other stars' planetary systems. Includes multimedia planetarium demonstrations.

ASTR 10 Stellar Astronomy 5 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Five hours lecture.

Analyze the physical principles, logic, and development of stellar astronomy from ancient times to the present, with emphasis on recent developments. Examine the relationship of Earth to its deep-space environment and contrast the Sun to other types of stars. Synthesize the organization in space and time of the hierarchy of the cosmos from stellar systems through the universe on its largest observable scale, and investigate the observational strategies and equipment that are used to investigate it.

ASTR 77 Special Projects in Astronomy 1 Unit**ASTR 77X 2 Units****ASTR 77Y 3 Units**

Prerequisite: Consent of instructor and division dean.

Three hours laboratory per week for each unit of credit.

(Any combination of Astronomy 77, 77X and 77Y may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)

Pass-No Pass (P-NP) course.

Individual research in Astronomy. Specific projects to be determined on consultation with the instructor. Outside reading and written report(s) required. These projects are on topics not covered in the regular Astronomy curriculum and require the approval of the PSM&E Division Dean.

Automotive Technology

AUTO 50A Introduction to Automotive Principles 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.

Four hours lecture per week (equal to forty-eight hours lecture per quarter).

A selective study of the automobile's engine systems. Knowledge and skills necessary for basic repair, maintenance, and troubleshooting of today's engine systems. May be used to fulfill the prerequisite to the Automotive Technology Program.

AUTO 50B Applied Automotive Principles 2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A (may be taken concurrently).

Four hours lecture-laboratory per week (equal to forty-eight hours lecture-laboratory per quarter).

Basic lecture-laboratory experiences in automotive repair and maintenance as related to the engine and its supporting systems.

AUTO 51A Introduction to Automotive Principles - Chassis Systems 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.

Four hours lecture per week (equal to forty-eight hours lecture per quarter).

A selective study of the automobile's chassis and drive line systems. Knowledge and skills necessary for basic repair, maintenance, and troubleshooting of today's chassis and drive line systems. Can be used to fulfill the prerequisite to the Automotive Technology Program.

AUTO 51B Applications of Automotive Principles (Chassis Systems) 2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 51A (may be taken concurrently).

Four hours lecture-laboratory per week (equal to forty-eight hours lecture-laboratory per quarter).

Basic lecture-laboratory experiences in automotive repair and maintenance as related to: suspension, steering, braking and drive line components.

AUTO 53A Automotive Mechanisms 3 Units

Prerequisite: Approved Automotive Technology Course Sequence Contract.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.

Six hours lecture-laboratory per week (equal to seventy-two hours lecture-laboratory per quarter).

The application of physical principles to the operation of mechanical, hydraulic, and hydromechanical systems, using an applied physics technique.

AUTO 53B Automotive Electromechanical Systems 2 Units

Prerequisite: Approved Automotive Technology Course Sequence Contract.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.

Four hours lecture-laboratory per week (equal to forty-eight hours lecture-laboratory per quarter).

Electrical theories, testing and measuring procedures, circuit construction and schematic interpretation. Application of the principles of magnetism. Fundamentals of operation of semiconductors used as electronic devices and controls.

AUTO 57A Career Research and Employment in the Automotive Industry 2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours lecture per week (equal to twenty-four hours lecture per quarter).

Career research in the automotive industry: job search, applications and resumes, employer-employee relationships, job interviews.

AUTO 58 Hazardous Materials 1/2 Unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.

One-half hour lecture per week (equal to six hours lecture per quarter).

Proper handling of hazardous materials in the automotive trade.

AUTO 60 Automotive Electrical Systems 9 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A and 50B.

Nine hours lecture per week (equal to one-hundred-eight hours lecture per quarter).

Principles of electricity, electronics, cranking, and charging systems. Testing, diagnosis and repair of these systems.

AUTO 60A Electrical Schematic Diagnosis 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 60.

Four and one-half hours lecture per week (equal to fifty-four hours lecture per quarter).

Theory of operation for electrical, electronic, and electromechanical accessory systems. Understanding and using wiring diagrams, schematics, and other diagnostic information to troubleshoot electrical, electronic, and electromechanical systems. Preparation for Automotive Service Excellence (ASE) examination in areas A6, A8, and L1.

AUTO 60B Automotive Electronics 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A, 50B, 60 and 60A.

Four and one-half hours lecture per week (equal to fifty-four hours lecture per quarter).

Application of computer control principles to automotive systems. Operation of automotive electronic control systems, including commonly used sensors, actuators, and displays. Introduction to diagnostic methods and test equipment for automotive electronic control systems. Preparation for Automotive Service Excellence (ASE) examination in areas A6, A8, and L1.

AUTO 60C Automotive Ignition, Fuel, and Emission Systems 9 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A, 50B, 60, 60A and 60B.

Nine hours lecture per week (equal to one-hundred-eight hours lecture per quarter).

Introduction to components, subsystems, and functions of ignition, fuel delivery, carburetor and fuel injection systems (engine management). Introduction to automotive emission controls. Basic diagnosis, service, and repair procedures. Preparation for Automotive Service Excellence (ASE) examination in areas A6, A8, and L1.

AUTO 60D Ignition Analysis and Oscilloscope Diagnosis 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A, 50B, 60, 60A, 60B and 60C.

Four and one-half hours lecture per week (equal to fifty-four hours lecture per quarter).

Ignition system principles of operation and diagnosis. Use of electronic test equipment in ignition system diagnosis. Preparation for Automotive Service Excellence (ASE) certification examinations in Areas A6, A8, and L1.

AUTO 60E Automotive Fuel Injection 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A, 50B, 60, 60A, 60B, 60C, and 60D.

Four and one-half hours lecture per week (equal to fifty-four hours lecture per quarter).

Theory of operation and service of electronic fuel injection systems. Component parts and their functions and overall system theory. Diagnostic and repair methods using standard test and repair equipment. Preparation for Automotive Service Excellence (ASE) examination in Areas A8 and L1.

AUTO 60F No-Start Diagnosis 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A, 50B, 60, 60A, 60B, 60C, 60D and 60E.

Four and one-half hours lecture per week (equal to fifty-four hours lecture per quarter).

Principles of troubleshooting procedures and techniques to analyze and repair of "no start" problems in the fuel, ignition, and electrical systems of an automobile. Preparation for Automotive Service Excellence (ASE) examination in Areas A6, A8, and L1.

AUTO 60G Advanced Scan Tool Diagnosis 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A, 50B, 60, 60A, 60B, 60C, 60D and 60E.

Four and one-half hours lecture per week (equal to fifty-four hours lecture per quarter).

Advanced drivability diagnosis using a scan tool. Using the onboard diagnostic capabilities of vehicles built since 1980. Advanced scan data analysis. Using PC capabilities to store and analyze diagnostic information. Preparation for Automotive Service Excellence (ASE) examination in Areas A6, A8 and L1.

AUTO 60H Advanced Drivability and Onboard Diagnostics 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A, 50B, 60, 60A, 60B, 60C, 60D and 60E.

Four and one-half hours lecture per week (equal to fifty-four hours lecture per quarter).

Survey of onboard diagnostic systems from 1980 to the present. Advanced electronic diagnostic procedures using an automotive scan tool. Preparation for Automotive Service Excellence (ASE) examination in Areas A6, A8, and L1.

AUTO 60J Advanced Lab Scope and Waveform Diagnosis 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A, 50B, 60, 60C, 60D, 60E, 60F and 60G.

Four and one-half hours lecture per week (equal to fifty-four hours lecture per quarter).

Diagnosis of automotive electronic systems using a laboratory oscilloscope and a power graphing meter. Related use of other basic test equipment, including a digital multimeter and scan tool. Advanced waveform analysis. Preparation for Automotive Service Excellence (ASE) examination in Areas A6, A8 and L1.

AUTO 60K Advanced Body Electrical 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 60A, 60B and 60G.

Four and one-half hours lecture per week (equal to fifty-four hours lecture per quarter).

Theory of operation for body electrical, electronic, and electromechanical systems. Understanding the functions of automotive body electrical systems. Utilization of special diagnostic equipment for body electrical systems and subsystems. Appropriate repair protocol for applied body electrical systems. Symptoms to system diagnosis. Preparation for Automotive Service Excellence (ASE) examination in area A6.

AUTO 60M Hybrid Electric Vehicles 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 60A, 60B and 60G.

Four and one-half hours lecture per week (equal to fifty-four hours lecture per quarter).

Understanding the functions of automotive hybrid propulsion systems. Operating characteristics of hybrid drive systems. Integration of high voltage power supplies and energy storage systems. Operating fundamentals of DC to DC converters. Relationship of internal combustion engines and motor generators. Function and design of regenerative braking systems. Operation of hybrid transmission systems and power splitting devices. Application of the high expansion ratio cycle. Understanding safety aspects of service hybrid electric vehicles. Utilization of special diagnostic equipment for hybrid electrical systems and related subsystems. Appropriate repair protocol for hybrid electrical systems. Maintenance and servicing of Hybrid vehicles.

AUTO 60N Hybrid Vehicle Safety and Maintenance 2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or 212 or equivalent; Automotive Technology 60A and 60B.

Two hours lecture per week (equal to twenty-four hours lecture per quarter).

Explores the use of hybrid electric power for vehicle transportation. Topics will include: safety, maintenance of hybrid propulsion and internal combustion systems, drivability, and storage battery technology. Various designs of hybrid vehicles and their integrated systems from multiple manufacturers will be discussed. This course also fulfills the Toyota Technician Education Network training requirement for the T-256 course. This course is suitable for students interested in alternative fuels or power and energy technology.

AUTO 61A Automotive Brake Systems 4 1/2 Units

(Formerly Automotive Technology 61.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A and 50B.

Four and one-half hours lecture per week (equal to fifty-four hours lecture per quarter).

Operation of automotive brake systems. Repair, maintenance and troubleshooting.

AUTO 61B Electronically Controlled Brake Systems 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 62A.

Four and one-half hours lecture per week (equal to fifty-four hours lecture per quarter).

Computer controlled automotive brake systems, including service, maintenance, troubleshooting and repair procedures.

AUTO 62A Automotive Suspension, Steering, and Alignment 9 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A and 50B.

Nine hours lecture per week (equal to one-hundred-eight hours lecture per quarter).

Operation of automotive suspension, steering and alignment systems. Overview of maintenance, repair and troubleshooting procedures.

AUTO 62B Advanced Wheel Alignment 9 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 62A.

Four and one-half hours lecture per week (equal to fifty-four hours lecture per quarter).

Advanced study of wheel alignment systems. Emphasis is placed on diagnostic inspection and repair procedures.

AUTO 63 Automatic Transmissions and Transaxles 9 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A and 50B.

Nine hours lecture per week (equal to one-hundred-eight hours lecture per quarter).

Principles of operation, service and repair procedures for automatic transmissions and transaxles. Hydraulic and mechanical system operation. Power flow and component repair techniques. Preparation for Automotive Service Excellence (ASE) certification examination A2.

AUTO 63A Automotive Drive Train 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A and 50B.

Four and one-half hours lecture per week (equal to fifty-four hours lecture per quarter).

Principles of operation of automotive drive train components. Service and repair procedures, product problem discussions and demonstrations. Preparation for Automotive Service Excellence (ASE) certification examination A3.

AUTO 63B Automatic Transmission 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A and 50B.

Four and one-half hours lecture per week (equal to fifty-four hours lecture per quarter).

Principles of operation, service and repair procedures of automatic transmissions. Hydraulic and mechanical system operation. Preparation for Automotive Service Excellence (ASE) certification examination A2.

AUTO 63C Automotive Transaxles 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A and 50B.

Four and one-half hours lecture per week (equal to fifty-four hours lecture per quarter).

Automotive transaxle operation. Theory of operation, service and repair techniques as related to automatic transaxles. Power flow and component repair techniques. Preparation for Automotive Service Excellence (ASE) certification examination A2.

AUTO 63D Transmission Diagnostic and Repair Techniques 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A and 50B.

Four and one-half hours lecture per week (equal to fifty-four hours lecture per quarter).

Diagnostic and repair techniques for automatic transmissions and transaxles. Emphasis on development of diagnostic procedures and repair techniques. Preparation for Automotive Service Excellence (ASE) certification examinations A2 and A3.

AUTO 64 Automotive Machining and Engine Repair 9 Units

(Formerly Automotive Technology 64A and 64B.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50B.

Nine hours lecture per week (equal to one-hundred-eight hours lecture per quarter).

Repair and rebuilding of engine cylinder heads and block components, engine assembly and testing. Includes theory, diagnosis, disassembly, cleaning, inspection and failure analysis. Preparation for Automotive Service Excellence (ASE) examinations for areas A1 and M1, M2, and M3.

AUTO 64HP High Performance Engine Preparation 9 Units

Prerequisite: Automotive Technology 64; or Automotive Technology 64A and 64B. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A and 50B.

Nine hours lecture per week (equal to one-hundred-eight hours lecture per quarter).

Precision and performance engine preparation. Includes selection and matching of engine and valve train components for maximum efficiency and output.

AUTO 65P Clean Air Car Course 7 Units

Prerequisite: Automotive Technology 60, 60B, and 60E, and one year of related automotive experience.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent. Seven hours lecture per week (equal to eighty-four hours lecture per quarter).

Automotive technician training program for California's Inspection and Maintenance Program (I&M Program). Course content is mandated by the BAR.

AUTO 65R California ASE Alternative Training A6 2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 60, 60A and 60B.

Two hours lecture per week (equal to twenty-four hours lecture per quarter).

Review of On-board Diagnostics Generation I (OBDI). Extensive coverage of On-board Diagnostics Generation II (OBDII) operating system, testing procedures and strategies. Preparation for Automotive Service Excellence (ASE) examination in areas A6, A8, L1, and Inspection and Maintenance (I/M) technician update requirements.

AUTO 65S California ASE Alternative Training A8 2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 60, 60A, 60B and 60C.

Two hours lecture per week (equal to twenty-four hours lecture per quarter).

An approved course by the Bureau of Automotive Repair (BAR) as an alternative to meet the ASE A8 certification prerequisites for obtaining a smog technician license.

AUTO 65V California ASE Alternative Training L1 2 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Service Excellence (ASE) Certification A6 and A8.

Two and one-half hours lecture per week (equal to thirty hours lecture per quarter).

Approved by the Bureau of Automotive Repair (BAR) as an alternative to meet the ASE L1 certification prerequisites for obtaining a smog technician license.

AUTO 65W Advanced Clean Air Car Course 2 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Service Excellence (ASE) Certification A6, A8 & L1.

Two and one-half hours lecture per week (equal to thirty hours lecture per quarter).

Automotive technician training program for California's Inspection and Maintenance Program (I & M Program). This course meets the Bureau of Automotive Repair (BAR) requirement for obtaining an Advanced Emissions Specialist (EA) Smog Check License.

AUTO 66 Automotive Air Conditioning 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 60.

Four and one-half hours lecture per week (equal to fifty-four hours lecture per quarter).

Operation and service of automotive air conditioning refrigeration and electrical control systems. Includes retrofitting. Emphasis on diagnosis and repair of systems. Preparation for Automotive Service Excellence (ASE) certification examination in area A7.

AUTO 69X Smog Check Update 1 Unit**AUTO 69Y 1 1/2 Units****AUTO 69Z 2 Units**

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; current CA Smog Check License.

One hour lecture for each unit of credit.

(Any combination of Automotive Technology 69X, 69Y, and 69Z may be taken up to six times for credit.)

A legally mandated course required by the California Bureau of Automotive Repair (BAR) to obtain a renewal Smog Check License every two years. This applies to all State Licensed Smog Check Technicians. The latest Smog Check Program changes and updates will be covered. The State Smog Check License renewal examination will be given at the end of the course. The unit value of the course will depend on the curriculum and hours of instruction specified by BAR for the current two year cycle.

AUTO 91A Automotive Brake Systems 5 Units

Prerequisite: Approved Automotive Technology Course Sequence Contract.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A and 50B.

Ten hours lecture-laboratory.

Repair, maintenance and troubleshooting of automotive braking systems.

AUTO 91B Active Brake Systems 1 1/2 Units

Prerequisite: Approved Automotive Technology Course Sequence Contract; Automotive Technology 91A.
Three hours lecture-laboratory.
 Repair, maintenance and troubleshooting of automotive active/anti-lock brake systems.

AUTO 92A Automotive Steering and Suspension 5 Units

Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 51A and 51B.
Ten hours lecture-laboratory.
 Repair, maintenance and troubleshooting of suspension and steering systems.

AUTO 92B Automotive Alignment 5 Units

Prerequisite: Approved Automotive Technology Course Sequence Contract; Automotive Technology 92A.
Ten hours lecture-laboratory.
 Automotive alignment systems, including repair, maintenance and troubleshooting. Service and repair procedures.

AUTO 92C Automotive Electronic Chassis Controls 1 1/2 Units

Prerequisite: Approved Automotive Course Sequence Contract; Automotive Technology 92B.
Three hours lecture-laboratory.
 Computer controlled automotive suspension and steering systems, including repair, maintenance, troubleshooting, and service procedures.

AUTO 92D Uni-Body Alignment 1 1/2 Units

Prerequisite: Approved Automotive Course Sequence Contract; Automotive Technology 92C.
Three hours lecture-laboratory.
 Gaging, analyzing, repairing and alignment of uni-body systems.

AUTO 93A Automotive Final Drive Train 5 Units

Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.
Ten hours lecture-laboratory per week (equal to one-hundred-twenty hours lecture-laboratory per quarter).
 Components of the final drive train including design features and service techniques.

AUTO 93B Standard Transaxles 1 1/2 Units

Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.
Three hours lecture-laboratory per week (equal to thirty-six hours lecture-laboratory per quarter).
 Standard transaxles: power flow, service requirements and repair procedures.

AUTO 93C Automatic Transmissions 5 Units

Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.
Ten hours lecture-laboratory per week (equal to one-hundred-twenty hours lecture-laboratory per quarter).
 Operation of automatic transmissions including torque converters, hydraulic control, planetary gear train, clutch and band operation. Inspection and repair procedures for automatic transmissions.

AUTO 93D Automatic Transaxles 1 1/2 Units

Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.
Three hours lecture-laboratory per week (equal to thirty-six hours lecture-laboratory per quarter).
 A detailed study of automatic transaxles. Power flow, service requirements and repair procedures will be covered.

AUTO 93E Diagnostic Techniques 1 Unit

Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.
Two hours lecture-laboratory per week (equal to twenty-four hours lecture-laboratory per quarter).
 Diagnostic techniques for problem solving in the automotive and light duty truck powertrain.

AUTO 93F Automotive Transmission Service 5 Units

Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.
Ten hours lecture-laboratory per week (equal to one-hundred-twenty hours lecture-laboratory per quarter).
 Operation of rear axles, transfer cases, clutches, automatic and standard transmissions and transaxles. Diagnostic, inspection and repair procedures for these powertrain components.

AUTO 94A Principles of Four Stroke Cycle Gas and Diesel Engines 5 Units

Prerequisite: Automotive Technology 50B; approved Automotive Technology Course Sequence Contract.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.
Ten hours lecture-laboratory per week (equal to one-hundred-twenty hours lecture-laboratory per quarter).
 Shop operations specific to engine repair and rebuilding including safety and hazardous waste management. Emphasis on theory, diagnosis, disassembly, cleaning, inspection and failure analysis.

AUTO 94B Automotive Machining and Engine Service 5 Units

Prerequisite: Automotive Technology 94A; approved Automotive Technology Course Sequence Contract.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.
Ten hours lecture-laboratory per week (equal to one-hundred-twenty hours lecture-laboratory per quarter).
 Reconditioning cylinder heads and related valve train components including crack detection, repair, testing and assembly. Resurfacing cylinder heads.

AUTO 94C Automotive Machining and Engine Service 5 Units

Prerequisite: Automotive Technology 94B; approved Automotive Technology Course Sequence Contract.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.
Ten hours lecture-laboratory per week (equal to one-hundred-twenty hours lecture-laboratory per quarter).
 Reconditioning engine short block assemblies and components including balancing, assembly and testing.

AUTO 94D Automotive Machining and Engine Service 5 Units

Prerequisite: Automotive Technology 94C; approved Automotive Technology Course Sequence Contract.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.
Ten hours lecture-laboratory per week (equal to one-hundred-twenty hours lecture-laboratory per quarter).
 Precision and performance engine preparation with emphasis on improvements in volumetric efficiency. Includes selection and matching of components for maximum efficiency within mandated emissions requirements.

AUTO 94E Automotive Machining and Engine Service 5 Units

(Formerly Automotive Technology 94EA.)
Prerequisite: Automotive Technology 94D.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.
Ten hours lecture-laboratory per week (equal to one-hundred-twenty hours lecture-laboratory per quarter).
 Complete automotive machine shop practice including engine repair, assembly, testing, and installation. Researching service and installation procedures and parts and labor estimating.

AUTO 94F Automotive Machining and Engine Service 5 Units

(Formerly Automotive Technology 94EB.)
Prerequisite: Automotive Technology 94E.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.
Ten hours lecture-laboratory per week (equal to one-hundred-twenty hours lecture-laboratory per quarter).
 Practice and skill development with emphasis on precision and productivity in rebuilding, servicing, and installing engines. Research and prepare equipment operation and maintenance instructions.

AUTO 99A Automotive Electricity, Battery, and Cranking Systems 6 1/4 Units

Prerequisite: Automotive Technology 50B; approved Automotive Technology Course Sequence Contract.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent. Twelve and one-half hours lecture-laboratory per week (equal to one-hundred-fifty hours lecture-laboratory per quarter). (May be taken up to three times for credit.)

Automotive electricity including the electron theory, fundamentals of circuit construction and interpretation, principles of magnetism as applied to electric motors, relays and coils. Diagnosis, troubleshooting and servicing of automotive battery and cranking systems including system repair procedures. Developing skills in the use of test equipment including the DVOM and electrical load testing tools for the analysis and diagnosis of these types of electrical systems.

AUTO 99B Automotive Charging, Ignition, and Accessory Systems 6 1/4 Units

Prerequisite: Automotive Technology 99A; approved Automotive Technology Course Sequence Contract.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent. Twelve and one-half hours lecture-laboratory per week (equal to one-hundred-fifty hours lecture-laboratory per quarter). (May be taken up to three times for credit.)

The fundamentals of automotive electronic devices as they apply to the automotive charging and ignition systems. Emphasis on diagnosis of these systems using test instruments including the oscilloscope. Introduction to automotive accessory systems including wiring and repair techniques. Skill development in the understanding of the electrical wiring diagram networks as provided by manufacturers.

AUTO 99C Introduction to Engine Performance Systems 6 1/4 Units

Prerequisite: Automotive Technology 99B; approved Automotive Technology Course Sequence Contract.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent. Twelve and one-half hours lecture-laboratory per week (equal to one-hundred-fifty hours lecture-laboratory per quarter). (May be taken up to three times for credit.)

Electronically controlled automotive systems. Fundamentals of automotive microprocessors and automotive onboard computers. Testing techniques for system input and output devices. Diagnosis, troubleshooting, and repairing the automotive fuel supply system including carburetion and feedback carburetion. Diagnosis, troubleshooting, and repair techniques for no-start conditions. Procedure development for analyzing and repairing common problems of fuel, ignition, electrical and basic engine mechanical systems which effect engine performance of the automobile.

AUTO 99D Intermediate Engine Performance Systems 6 1/4 Units

Prerequisite: Automotive Technology 99C; approved Automotive Technology Course Sequence Contract.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent. Twelve and one-half hours lecture-laboratory per week (equal to one-hundred-fifty hours lecture-laboratory per quarter). (May be taken up to three times for credit.)

Electronically controlled engine performance systems. Diagnosing, troubleshooting, and repairing the automotive fuel-injection systems of domestic automobiles. Testing techniques for system input and output devices using automotive scanners and oscilloscopes.

AUTO 99E Basic Engine Performance Diagnostic Procedures 6 1/4 Units

Prerequisite: Automotive Technology 99D; approved Automotive Technology Course Sequence Contract.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent. Twelve and one-half hours lecture-laboratory per week (equal to one-hundred-fifty hours lecture-laboratory per quarter). (May be taken up to three times for credit.)

Automotive technician training program to include each system which aids in increasing fuel economy and in the reduction of emissions and pollutants from the automobile. Diagnosing and troubleshooting the systems controlling automotive performance and drivability.

AUTO 99F Intermediate Engine Performance Diagnostic Procedures 6 1/4 Units

Prerequisite: Automotive Technology 99E; approved Automotive Technology Course Sequence Contract.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent. Twelve and one-half hours lecture-laboratory per week (equal to one-hundred-fifty hours lecture-laboratory per quarter). (May be taken up to three times for credit.)

Performance tuning of automotive gasoline engines. Emphasis on reference material dealing with repair procedures, specifications, and efficient tune-up procedures. Intermediate level for usage of computer scanners and oscilloscopes. Diagnosing, troubleshooting, and repairing the systems designed for the control of engine temperature.

Biology

BIOL 5 Biology of Birds 5 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture, three hours laboratory.

A general introduction to the biology of birds, including anatomy, physiology, ecology, evolution, behavior, diversity, identification, conservation, and relationships between birds and people around the world. (Includes Saturday field trips.)

BIOL 6A Form and Function in the Biological World 6 Units

(See general education pages for the requirement this course meets.)

Prerequisite: A satisfactory score on the Chemistry Placement Exam or a grade of C or better in either Chemistry 1A or 50.

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture, six hours laboratory.

Introduction to biology and scientific methods for students beginning the biology major series. Study of the structure and physiological processes of living organisms, with an emphasis on plants and animals.

BIOL 6B Cell and Molecular Biology 6 Units

Prerequisite: Biology 6A.

Advisory: English Writing 1A or English as a Second Language 5; Mathematics 114 or equivalent.

Four hours lecture, six hours laboratory.

Introduction to cellular structure and function, biological molecules, bioenergetics, molecular genetics, and cell proliferation. The laboratory includes extensive hands-on experimentation in molecular biology.

BIOL 6C Ecology and Evolution 6 Units

Prerequisite: Biology 6B.

Advisory: English Writing 1A or English as a Second Language 5; Mathematics 114 or equivalent.

Four hours lecture, six hours laboratory.

Principles of ecology and evolution. Includes ecology of populations, communities, ecosystems and biomes as well as evolution of populations, and the origin of species and higher taxa. The laboratory portion of the course includes a research project designed, researched and presented by students.

BIOL 8 Biology of Women 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Designed for non-science majors to explore women's anatomical and physiological characteristics and their management for good health. The emphasis is on the biological processes and principles organizing a "typical" female life progression, with a secondary focus on the structural and functional dimorphism of human body systems. It also aims at recognizing components of the scientific process distorted in the historical view of women and the impact that societal and cultural biases have on behavior and on female health issues.

BIOL 10 Introductory Biology 5 Units

(Not open to students who have completed Biology 6A, 6B, 6C, or equivalent.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture, three hours laboratory.

An introduction to biology as a branch of the biological sciences and to its basic unifying principles, with selected application to the scientific method, evolutionary concepts, genetic modification, biotechnology, ecology, ecological crises and human impacts.

BIOL 11	Human Biology	5 Units
(Not open to students who have completed Biology 6A, 6B or 6C, or equivalent; or Biology 40A, 40B or 40C, or equivalent.) (See general education pages for the requirement this course meets.) Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Four hours lecture, three hours laboratory. A general introduction to biology and its principles, emphasizing the biology of humans. The course will cover the unifying principles of biology, with emphasis on the basic anatomy and physiology of the human body, as well as on contemporary health issues and their impacts on cultural, ethnic and gender groups.		
BIOL 13	Marine Biology	5 Units
(See general education pages for the requirement this course meets.) Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Four hours lecture, four hours laboratory. Introduction to physical and chemical oceanography, marine animals, marine plants, and marine ecology with major emphasis on natural history of marine life. Bays, estuaries and open oceans are described as habitats. Marine biology as a branch of the biological sciences, employs the scientific method.		
BIOL 15	California Ecology	5 Units
(See general education pages for the requirement this course meets.) Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Four hours lecture, three hours laboratory. An introduction to ecology and field biology as a branch of the biological sciences and its relationship to the scientific method. A review of plant and animal adaptations to the natural environments and the impact of pollution, degradation of habitat, and human population on life.		
BIOL 26	Introductory Microbiology	6 Units
Prerequisite: Biology 40A, 40B and 40C, or equivalent, with a grade of C or better. Four hours lecture, six hours laboratory. Introduction to the sciences and the scientific method as exemplified by the study of microbiology. Morphology, metabolism, growth and genetics of bacteria and other microorganisms; chemical and physical means of control; the disease process and immunity. The importance of microorganisms to mankind; techniques and methods of microbiology.		
BIOL 40A	Human Anatomy and Physiology	5 Units
Prerequisite: Satisfactory score on the Biology 40A Placement Test or Chemistry 1A or Chemistry 50 or Chemistry 30A with a grade of C or better. Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture, three hours laboratory. An introduction to the disciplines of anatomy and physiology. Basic principles of human anatomy and physiology as exemplified in the study of cell chemistry, cell biology, histology and the integumentary, skeletal and muscular systems with emphasis on homeostatic mechanisms.		
BIOL 40B	Human Anatomy and Physiology	5 Units
Prerequisite: Biology 40A with a grade of C or better. Four hours lecture, three hours laboratory. Study of the nervous, circulatory, and respiratory systems.		
BIOL 40C	Human Anatomy and Physiology	5 Units
Prerequisite: Biology 40B with a grade of C or better. Four hours lecture, three hours laboratory. Study of the endocrine system, lymphatic system, digestive system, metabolism, urinary and reproductive systems, embryological development and classical Mendelian and modern biochemical genetics including genetic engineering.		
BIOL 45	Introduction to Human Nutrition	4 Units
Prerequisite: Biology 40C. Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. The chemical classification of nutrients, their functions within the human body, and the effects of nutritional deficiencies and excesses. The relationship of dietary intakes to health and disease.		
BIOL 54G	Applied Human Anatomy and Physiology: Levels of Organization	1 1/2 Units
(Not open to students with credit in Biology 6A, 6B or 6C; or 40A, 40B or 40C; or equivalent.) Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. One hour lecture, one and one-half hours laboratory. Survey of human anatomy and physiology with emphasis on homeostatic limits of the human body. Topics to be discussed include basic introduction and body organization, chemical basis of life, the cell and its metabolism, tissues, and the skin. (Especially designed for students planning careers in medical assisting, Licensed Vocational Nursing, education, speech, home economics, psychology, physical education and/or recreation.)		

BIOL 54H	Applied Human Anatomy and Physiology: Support, Movement, and Integration	1 1/2 Units
(Not open to students with credit in Biology 6A, 6B or 6C; or 40A, 40B or 40C; or equivalent.) Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. One hour lecture, one and one-half hours laboratory. Survey of human anatomy and physiology with emphasis on homeostatic limits of the human body. The skeletal, muscular and nervous systems including somatic and special senses. (Especially designed for students planning careers in medical assisting, Licensed Vocational Nursing, education, speech, home economics, psychology, physical education and/or recreation.)		
BIOL 54I	Applied Human Anatomy and Physiology: Coordination and Transport	1 1/2 Units
(Not open to students with credit in Biology 6A, 6B or 6C; or 40A, 40B or 40C; or equivalent.) Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. One hour lecture, one and one-half hours laboratory. Survey of human anatomy and physiology with emphasis on homeostatic limits of the human body. The endocrine, cardiovascular, and lymphatic systems and the blood. (Especially designed for students planning careers in medical assisting, Licensed Vocational Nursing, education, speech, home economics, psychology, physical education and/or recreation.)		
BIOL 54J	Applied Human Anatomy and Physiology: Absorption, Excretion, and Reproduction	1 1/2 Units
(Not open to students with credit in Biology 6A, 6B or 6C; or 40A, 40B or 40C; or equivalent.) Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. One hour lecture, one and one-half hours laboratory. Survey of human anatomy and physiology with emphasis on homeostatic limits of the human body. The respiratory, urinary, reproductive, and digestive systems, water and electrolyte balance, nutrition and pregnancy. (Especially designed for students planning careers in medical assisting, Licensed Vocational Nursing, education, speech, home economics, psychology, physical education and/or recreation.)		
BIOL 77	Special Projects in Biology	1 Unit
BIOL 77X		2 Units
BIOL 77Y		3 Units
(Formerly Biology 49, 49X and 49Y respectively.) Prerequisite: Consent of instructor and division dean. Three hours laboratory for each unit of credit. (Any combination of Biology 77, 77X and 77Y may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.) Individual research in the biological sciences. Specific projects determined on consultation with the instructor. Outside reading and written report required.		
BIOL 150	Biology Skills Laboratory	1/2 Unit
BIOL 150W		1 Unit
BIOL 150X		1 1/2 Units
BIOL 150Y		2 Units
Corequisite: Students enrolled in Biology 150, 150W, 150X or 150Y must also enroll in any Biology Department course (includes Health and Nutrition courses). Three hours laboratory for each unit of credit. (Any combination of Biology 150, 150W, 150X and 150Y may be taken up to six times for credit.) Pass-No Pass (P-NP) course. An open entry/open exit optional supplemental learning course for Biology Department students who are enrolled in a Biology, Health, and/or Nutrition parent course, which will strengthen student skills and reinforce student mastery of concepts taught in the parent courses.		
Biotechnology		
(See Foothill College Catalog.)		
Business		
BUS 10	Introduction to Business	5 Units
(Formerly Business 20.) Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Five hours lecture. An overview of the business disciplines, including a brief introduction to marketing, accounting, finance, management, human resources, information technologies, economics, international business, business planning, and the role of business in society.		

BUS 18 Business Law I 5 Units

Advisory: English Writing 1A or English as a Second Language 5; Business 10. (Also listed as Paralegal 18. Student may enroll in either department, but not both, for credit.)
Five hours lecture.

The American legal system and laws applicable to business emphasizing contract, sales and agency laws, the impact of the legal system on business, and ethical considerations in the business environment.

BUS 21 Business and Society 5 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5; Economics 2. Five hours lecture.

An introduction to the study of the interactions and interdependencies between business, government, and society. Course will examine many individual cases of conflict between business and society, both current and historical, and will guide students to explore the lessons these cases hold for all current and future business managers.

BUS 51 Customer Service 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Developing effectiveness in customer service situations and understanding the complex challenges of effective customer service. Adapting customer service techniques to build long term, successful customer relationships in a culturally diverse world.

BUS 52 Supervision in the Public Sector 5 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 272.

Five hours lecture.

A comprehensive study of the vital aspects of Supervision in the Public Sector with a focus on practical advice in how to handle real-life, on the job situations. Effectively performing supervisory duties in a culturally diverse society.

BUS 54 Business Mathematics 5 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent.

Five hours lecture.

Basic mathematical operations and concepts as related to business and personal finance.

BUS 55 Introduction to Entrepreneurship 5 Units

(Formerly Small Business 95A.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

A practical study of the operations and essential skills required in small and start-up businesses. Emphasis on the opportunities and problems faced by entrepreneurs in meeting competition, purchasing, selling, staffing and financing an independent business. This course will prepare students for developing business plans.

BUS 56 Human Relations in Business 5 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Five hours lecture.

Human relations behavior in business organizations emphasizing personal and interpersonal relationships; developing leadership for business success; future trends.

BUS 57 Human Resource Management 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Business 10 or 56.

Four hours lecture.

Introductory course designed to teach fundamental components of the Human Resource function. Focus on understanding and applying various roles of Human Resources (recruitment, legal issues, selection, assessment and development, compensation, benefits) provides to employees and the organization to meet individual, organizational diversity and societal objectives.

BUS 58 The Business Plan 4 Units

Advisory: Business 55.

Four hours lecture.

Effectively organize the resources required to establish a new business and obtain financing by writing an analysis of the prospective business enterprise.

BUS 59 Promoting Your Small Business 5 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Affordable methods of promotion for small businesses. Emphasis on Internet marketing, public relations, relationship marketing, database marketing, and guerrilla marketing tactics. A promotion plan for the students' (existing or planned) businesses will be developed.

BUS 60 International Business Management 5 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent. Five hours lecture.

International Business and its functions in a diverse global economy. Understanding cross-border trade and investment; distance, time zone and language issues; national differences in government regulation, culture and business systems.

BUS 61 Introduction to Technical Writing 5 Units

Prerequisite: English Writing 1A or English as a Second Language 5.

(Also listed as English Writing 61 and Technical Writing 61. Student may enroll in only one department for credit.)

Five hours lecture.

Technical writing skills focusing on basic techniques of exposition for the technical field, functional description, process writing, technical vocabulary, correct usage, and accurate editing.

BUS 62 Survey of Technical Writing 5 Units

Prerequisite: Business 61 or English Writing 61 or Technical Writing 61 (may be taken concurrently).

(Also listed as English Writing 62 and Technical Writing 62. Student may enroll in only one department for credit.)

Five hours lecture.

Technical writing skills focusing on short document formats, production of sections of various technical documents, and incorporation of graphics within text.

BUS 63 Technical Publications 5 Units

Prerequisite: Business 61 or English Writing 61 or Technical Writing 61.

(Also listed as English Writing 63 and Technical Writing 63. Student may enroll in only one department for credit.)

Five hours lecture.

Technical writing and editing skills applied through individual and group assignments with emphasis on planning, scheduling, and producing longer reports, manuals, and instructions. Development of organizational skills and individual documentation solutions.

BUS 64 Technical Writing Seminar 5 Units

Prerequisite: Business 62 or 63; or English Writing 62 or 63; or Technical Writing 62 or 63.

(Also listed as English Writing 64 and Technical Writing 64. Student may enroll in only one department for credit.)

Five hours lecture.

Technical communication and editing skills applied through the preparation and presentation of a complete document according to the standards of the student's chosen technical field.

BUS 65 Leadership 5 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Develop effectiveness in leadership situations and understand the complex challenges of leadership. Adapt leadership techniques to build successful relationships in a culturally diverse world.

BUS 67A Federal Income Tax 4 Units

(Formerly Business 67.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent; Accounting 1A (may be taken concurrently).

(Also listed as Accounting 67A. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

A study of current federal income tax law and the procedures for preparing an individual's tax return.

BUS 67B Advanced Tax Accounting I 4 Units

(Formerly Business 68A.)

Prerequisite: Accounting 67A or Business 67A.

(Also listed as Accounting 67B. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

A study of current federal income tax law and California income tax law as it relates to individuals and sole proprietorship taxes.

BUS 69 Investment Fundamentals 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent.

Four hours lecture.

Introduction to securities investment: securities characteristics and rights; selection and purchase of stock; analysis of financial statements; investment methods; technical market and stock analysis; impact on financial planning.

BUS 70	Principles of E-Business	5 Units
<i>Five hours lecture.</i> Theory and practice of effectively conducting and managing business over the Internet. Insights into e-business models, strategy, technology, auctions, and marketing. Students are expected to complete computer assignments.		
BUS 80	Effective Organizational Communication	4 Units
<i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: English Writing 1A or English as a Second Language 5.</i> <i>(Also listed as Speech 70. Student may enroll in either department, but not both, for credit.)</i> <i>Four hours lecture.</i> A study of organizational communication concepts and theories. Impact of networks, superior/subordinate message patterns, team building, climate, cultural and gender influences, communication technology, ethics, and globalization on organizational effectiveness. Emphasizes development of communication skills useful for working productively in a dynamic, collaborative, multicultural work environment.		
BUS 85	Business Communication	3 Units
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Computer Applications and Office Systems 84A and 84B.</i> <i>Three hours lecture.</i> Application of writing skills to business communications; public relations functions of business correspondence.		
BUS 87	Introduction to Selling	4 Units
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent.</i> <i>Four hours lecture.</i> Application of business and behavioral sciences in a selling environment. Building successful relationships in a culturally diverse world.		
BUS 88	Managing Technology Projects	4 1/2 Units
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>(Also listed as Computer Information Systems 79. Student may enroll in either department, but not both, for credit.)</i> <i>Four hours lecture, one and one-half hours laboratory.</i> Introduction to the theory and practice of the design and management of technology projects, including planning, performing, and monitoring of projects. Subjects explored are estimating costs and schedules, analyzing client expectations, guiding diverse groups of people toward a common goal, while earning a profit. Use of common software packages for project management.		
BUS 89	Advertising	5 Units
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>Five hours lecture.</i> Historical, economic, and social aspects of advertising: role of the advertising agency; media alternatives and the development of creative advertising copy; development of advertising budgets; analysis of successful advertising campaigns.		
BUS 90	Principles of Marketing	5 Units
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>Five hours lecture.</i> Fundamentals of marketing: product planning and development; pricing strategies; marketing channels.		
BUS 91	Introduction to Personal Finance	3 Units
<i>Three hours lecture.</i> Students are introduced to a range of personal financial planning fundamentals including spending habits, taxes, saving, investing, and insurance. Discussion will include planning for major life events such as paying for college, buying a home, and retiring comfortably.		
BUS 96A	Principles of Management	5 Units
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>Five hours lecture.</i> Roles, functions, and responsibilities of management; the external environments and their impact on management.		

BUS 98U	Internship, Business/Computer Systems Division	1 Unit
BUS 98V		2 Units
BUS 98W		3 Units
BUS 98X		4 Units
BUS 98Y		5 Units
BUS 98Z		6 Units
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>(Also listed as Accounting 98U-Z, Computer Applications and Office Systems 98U-Z, and Computer Information Systems 98U-Z. Student may enroll in only one department for credit.)</i> <i>Four hours laboratory per unit of supervised internship in an authorized office or agency.</i> <i>(Any combination of Accounting 98U-Z, Business 98U-Z, Computer Applications and Office Systems 98U-Z, and Computer Information Systems 98U-Z may be taken up to six times, not to exceed 18 units, for credit. During each internship, students will be placed at different employer locations, different working environments, and/or given different assignments within the same company or department--thus providing the students with various opportunities to learn different skills. Students may repeat the same internship location and working environment if the student, employer, and instructor believe it would provide the student with increased work experience.)</i> Off-campus supervised experiential education/internship for Business/Computer Systems Division students in research or business office environments related to student's major. Practical application of knowledge, skills and abilities acquired in student's major. Opportunity for additional hands-on training. Exposure to varied corporate, state and federal protocols, methodologies and practices in a professional environment.		

CAD and Digital Imaging

CDI 51	Geometric Dimensioning and Tolerancing	2 Units
<i>(Formerly CAD and Digital Imaging 51C.)</i> <i>Four hours lecture-laboratory.</i> Geometric dimensioning and tolerancing, utilizing ANSI Y14.5M standards as they apply to engineering and manufacturing drawings and machining.		
CDI 56	Special Projects in CAD	1 Unit
CDI 56X		2 Units
CDI 56Y		3 Units
<i>Prerequisite: Consent of instructor and division dean.</i> <i>Three hours laboratory for each unit of credit.</i> <i>(Any combination of CAD and Digital Imaging 56, 56X and 56Y may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)</i> Projects advancing student's knowledge and experience in a selected area of CAD. Student will complete project objectives/requirements as determined in 3, 4, and 5 of the Special Projects Contract.		
CDI 57B	Simultaneous Product Development	4 Units
<i>Eight hours lecture-laboratory.</i> Product design using 3D CAD software. Application of simultaneous product development and design.		
CDI 58B	Unigraphics NX (Beginning)	4 Units
<i>Eight hours lecture-laboratory.</i> Fundamentals of computer-aided design and drafting using Unigraphics software. Application of Unigraphics in creating manufacturing models.		
CDI 59B	Unigraphics (Update)	4 Units
<i>Eight hours lecture-laboratory.</i> Principles and application changes in the Unigraphics software and system. Designed to upgrade users to the latest version yearly.		
CDI 60C	SolidWorks (Beginning)	4 Units
<i>Eight hours lecture-laboratory.</i> Fundamentals of computer-aided design and drafting using SolidWorks software. Application of SolidWorks in creating manufacturing models.		
CDI 60D	SolidWorks (Beginning)	4 Units
<i>Eight hours lecture-laboratory.</i> Fundamentals of computer-aided design and drafting using SolidWorks software. Application of SolidWorks in creating manufacturing models.		
CDI 60E	SolidWorks (Beginning)	4 Units
<i>Eight hours lecture-laboratory.</i> Fundamentals of computer-aided design and drafting using SolidWorks software. Application of SolidWorks in creating manufacturing models.		
CDI 61C	SolidWorks (Intermediate)	4 Units
<i>Prerequisite: CAD and Digital Imaging 60C.</i> <i>Eight hours lecture-laboratory.</i> Intermediate-level application of SolidWorks in creating solid models and drawings. Introduction to surface features and basic surfacing techniques.		

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a smoke-free campus



CDI 61D	SolidWorks (Intermediate)	4 Units
<i>Prerequisite: CAD and Digital Imaging 60D.</i>		
<i>Eight hours lecture-laboratory.</i>		
Intermediate-level application of SolidWorks in creating solid models and drawings. Introduction to surface features and basic surfacing techniques.		
CDI 61E	SolidWorks (Intermediate)	4 Units
<i>Prerequisite: CAD and Digital Imaging 60E.</i>		
<i>Eight hours lecture-laboratory.</i>		
Intermediate-level application of SolidWorks in creating solid models and drawings. Introduction to surface features and basic surfacing techniques.		
CDI 62C	SolidWorks (Advanced)	4 Units
<i>Prerequisite: CAD and Digital Imaging 61C.</i>		
<i>Eight hours lecture-laboratory.</i>		
Advanced CAD modeling techniques using SolidWorks. Emphasis is on surface modeling and "top-down" design.		
CDI 62D	SolidWorks (Advanced)	4 Units
<i>Prerequisite: CAD and Digital Imaging 61D.</i>		
<i>Eight hours lecture-laboratory.</i>		
Advanced CAD modeling techniques using SolidWorks. Emphasis is on surface modeling and "top-down" design.		
CDI 62E	SolidWorks (Advanced)	4 Units
<i>Prerequisite: CAD and Digital Imaging 61E.</i>		
<i>Eight hours lecture-laboratory.</i>		
Advanced CAD modeling techniques using SolidWorks. Emphasis is on surface modeling and "top-down" design.		
CDI 63A	SolidWorks (SURFACES)	4 Units
<i>Eight hours lecture-laboratory.</i>		
Surface design using SolidWorks software. Application of surfaces in creating product models and molds for industry.		
CDI 63D	SolidWorks (SURFACES)	4 Units
<i>Eight hours lecture-laboratory.</i>		
Surface design using SolidWorks software. Application of surfaces in creating product models and molds for industry.		
CDI 63E	SolidWorks (SURFACES)	4 Units
<i>Eight hours lecture-laboratory.</i>		
Surface design using SolidWorks software. Application of surfaces in creating product models and molds for industry.		
CDI 64D	SolidWorks (PDMWorks)	2 Units
<i>Four hours lecture-laboratory.</i>		
Product data management using PDMWorks software. Application of PDM for controlling and manipulating design files. PDMWorks is a CAD data management solution that captures file revision histories. Product design teams use this program to access files, determine project status, and observe modification history of engineering projects.		
CDI 64E	SolidWorks (PDMWorks)	2 Units
<i>Four hours lecture-laboratory.</i>		
Product data management using PDMWorks software. Application of PDM for controlling and manipulating design files. PDMWorks is a CAD data management solution that captures file revision histories. Product design teams use this program to access files, determine project status, and observe modification history of engineering projects.		
CDI 67D	SolidWorks (Simulation)	4 Units
<i>Eight hours lecture-laboratory.</i>		
Application of Simulation to validate and optimize 3D models by measuring stress and displacement distributions of new designs through simulating responses to structural and thermal loads.		
CDI 67E	SolidWorks (Simulation)	4 Units
<i>Eight hours lecture-laboratory.</i>		
Application of Simulation to validate and optimize 3D models by measuring stress and displacement distributions of new designs through simulating responses to structural and thermal loads.		
CDI 69C	SolidWorks (Update)	4 Units
<i>Eight hours lecture-laboratory.</i>		
Principles and application changes in the SolidWorks software and system. Designed to upgrade users to the latest version yearly.		
CDI 69D	SolidWorks (Update)	4 Units
<i>Eight hours lecture-laboratory.</i>		
Principles and application changes in the SolidWorks software and system. Designed to upgrade users to the latest version yearly.		
CDI 69E	SolidWorks (Update)	4 Units
<i>Eight hours lecture-laboratory.</i>		
Principles and application changes in the SolidWorks software and system. Designed to upgrade users to the latest version yearly.		

CDI 70C	Pro/ENGINEER Wildfire (Beginning)	4 Units
<i>Eight hours lecture-laboratory.</i>		
Fundamentals of part design, using Pro/ENGINEER. Application of operating system, software, hardware, and peripherals in creating 3-D manufacturing models with Pro/ENGINEER.		
CDI 70D	Pro/ENGINEER Wildfire (Beginning)	4 Units
<i>Eight hours lecture-laboratory.</i>		
Fundamentals of part design, using Pro/ENGINEER. Application of operating system, software, hardware, and peripherals in creating 3-D manufacturing models with Pro/ENGINEER.		
CDI 71C	Pro/ENGINEER Wildfire (Intermediate)	4 Units
<i>Prerequisite: CAD and Digital Imaging 70C.</i>		
<i>Eight hours lecture-laboratory.</i>		
Assembly creation and drawing output using Pro/ENGINEER.		
CDI 71D	Pro/ENGINEER Wildfire (Intermediate)	4 Units
<i>Prerequisite: CAD and Digital Imaging 70D.</i>		
<i>Eight hours lecture-laboratory.</i>		
Assembly creation and drawing output using Pro/ENGINEER.		
CDI 72C	Pro/ENGINEER Wildfire (Advanced)	4 Units
<i>Prerequisite: CAD and Digital Imaging 71C.</i>		
<i>Eight hours lecture-laboratory.</i>		
Advanced design and photo-rendering modules and capabilities from Pro/ENGINEER are used to create unique designs and display them in a realistic, lifelike setting.		
CDI 72D	Pro/ENGINEER Wildfire (Advanced)	4 Units
<i>Prerequisite: CAD and Digital Imaging 71D.</i>		
<i>Eight hours lecture-laboratory.</i>		
Advanced design and photo-rendering modules and capabilities from Pro/ENGINEER are used to create unique designs and display them in a realistic, lifelike setting.		
CDI 73C	Pro/ENGINEER Wildfire (Pro/SHEETMETAL)	4 Units
<i>Prerequisite: CAD and Digital Imaging 70C.</i>		
<i>Eight hours lecture-laboratory.</i>		
Principles of sheet metal design using Pro/ENGINEER Pro/SHEETMETAL.		
CDI 73D	Pro/ENGINEER Wildfire (Pro/SHEETMETAL)	4 Units
<i>Prerequisite: CAD and Digital Imaging 70D.</i>		
<i>Eight hours lecture-laboratory.</i>		
Principles of sheet metal design using Pro/ENGINEER Pro/SHEETMETAL.		
CDI 74C	Pro/ENGINEER Wildfire (Pro/SURFACE)	4 Units
<i>Prerequisite: CAD and Digital Imaging 70C.</i>		
<i>Eight hours lecture-laboratory.</i>		
Surface design using Pro/ENGINEER software. Application of surfaces in creating product models for industry.		
CDI 74D	Pro/ENGINEER Wildfire (Pro/SURFACE)	4 Units
<i>Prerequisite: CAD and Digital Imaging 70D.</i>		
<i>Eight hours lecture-laboratory.</i>		
Surface design using Pro/ENGINEER software. Application of surfaces in creating product models for industry.		
CDI 75C	Pro/ENGINEER Wildfire (Pro/MOLD)	4 Units
<i>Prerequisite: CAD and Digital Imaging 70C.</i>		
<i>Eight hours lecture-laboratory.</i>		
Application of Pro/ENGINEER's Pro/MOLD in creating manufacturing models.		
CDI 75D	Pro/ENGINEER Wildfire (Pro/MOLD)	4 Units
<i>Prerequisite: CAD and Digital Imaging 70D.</i>		
<i>Eight hours lecture-laboratory.</i>		
Application of Pro/ENGINEER's Pro/MOLD in creating manufacturing models.		
CDI 76C	Pro/ENGINEER Wildfire (Pro/CABLE)	4 Units
<i>Prerequisite: CAD and Digital Imaging 70C.</i>		
<i>Eight hours lecture-laboratory.</i>		
Pro/CABLE Design using Pro/ENGINEER software. Application of Pro/CABLE in creating manufacturing models.		
CDI 76D	Pro/ENGINEER Wildfire (Pro/CABLE)	4 Units
<i>Prerequisite: CAD and Digital Imaging 70D.</i>		
<i>Eight hours lecture-laboratory.</i>		
Pro/CABLE Design using Pro/ENGINEER software. Application of Pro/CABLE in creating manufacturing models.		
CDI 77C	Pro/ENGINEER Wildfire (Pro/MECHANICA)	4 Units
<i>Prerequisite: CAD and Digital Imaging 70C.</i>		
<i>Eight hours lecture-laboratory.</i>		
Application of Pro/MECHANICA to validate and optimize 3D models by measuring stress and displacement distributions of new designs through simulating responses to structural loads.		

CDI 77D	Pro/ENGINEER Wildfire (Pro/MECHANICA)	4 Units	CDI 88D	AutoCAD (Update)	4 Units
<i>Prerequisite: CAD and Digital Imaging 70D.</i> <i>Eight hours lecture-laboratory.</i> Application of Pro/ENGINEER to validate and optimize 3D models by measuring stress and displacement distributions of new designs through simulating responses to structural loads.			<i>Eight hours lecture-laboratory.</i> Principles and application changes in the AutoCAD software. Designed to upgrade users to the latest version yearly.		
CDI 78D	Pro/ENGINEER (Windchill ProductPoint)	2 Units	CDI 89A	AutoDesk Inventor (Update)	4 Units
<i>Four hours lecture-laboratory.</i> Product data management using Pro/ENGINEER (Windchill ProductPoint) software. Application of PDM for controlling and manipulating design files. Pro/ENGINEER (Windchill ProductPoint) is a CAD data management solution that captures file revision histories. Product design teams can access files, determine project status, and observe modification history of engineering designs.			<i>Eight hours lecture-laboratory.</i> Principles and application changes in the Inventor software and system. Designed to upgrade users to the latest version yearly.		
CDI 78E	Pro/ENGINEER (Windchill ProductPoint)	2 Units	CDI 90	Google SketchUp 3D	2 Units
<i>Four hours lecture-laboratory.</i> Product data management using Pro/ENGINEER (Windchill ProductPoint) software. Application of PDM for controlling and manipulating design files. Pro/ENGINEER (Windchill ProductPoint) is a CAD data management solution that captures file revision histories. Product design teams can access files, determine project status, and observe modification history of engineering designs.			<i>Four hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Fundamentals of SketchUp 3D (Google). Application of software in creating 3D models and drawings using Google SketchUp 3D.		
CDI 79C	Pro/ENGINEER Wildfire (Update)	4 Units	CDI 100	CAD Technology Laboratory	1/2 Unit
<i>Eight hours lecture-laboratory.</i> Principles and application changes in the Pro/ENGINEER software and system. Designed to upgrade users to the latest version yearly.			CDI 100X		1 Unit
CDI 79D	Pro/ENGINEER Wildfire (Update)	4 Units	CDI 100Y		1 1/2 Units
<i>Eight hours lecture-laboratory.</i> Principles and application changes in the Pro/ENGINEER software and system. Designed to upgrade users to the latest version yearly.			CDI 100Z		2 Units
CDI 80C	AutoCAD (Beginning)	4 Units	<i>Credit course - Does not apply to De Anza Associate degree.</i> <i>Corequisite: Any CAD and Digital Imaging course.</i> <i>Three hours laboratory for each unit of credit.</i> <i>(Any combination of CAD and Digital Imaging 100, 100X, 100Y and 100Z may be taken up to six times for credit.)</i> <i>Pass-No Pass (P-NP) course.</i> Use of CAD Technology labs for those who need/desire more time to complete application assignments.		
<i>Eight hours lecture-laboratory.</i> Principles and applications of computer-aided design and drafting using AutoCAD software. Emphasis on 2D drawings and dimensioning.			CDI 112A	Digital Imaging Software (Photoshop)	4 Units
CDI 80D	AutoCAD (Beginning)	4 Units	<i>(Students may receive credit for either Computer Applications and Office Systems 112A (or 112I and 112Q); Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).)</i> <i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 90GA.</i> <i>(Also listed as Arts 112A and Computer Applications and Office Systems 112A.)</i> <i>Student may enroll in only one department for credit.</i> <i>Eight hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Basic and intermediate principles using digital imaging software to produce graphics for Web sites. Introduction to digital imaging terminology and software. This course is for the content person to produce Web pages using digital images.		
<i>Eight hours lecture-laboratory.</i> Principles and applications of computer-aided design and drafting using AutoCAD software. Emphasis on 2D drawings and dimensioning.			CDI 112I	Digital Imaging Software I (Photoshop)	2 Units
CDI 81C	AutoCAD (Intermediate)	4 Units	<i>(Students may receive credit for either Computer Applications and Office Systems 112A (or 112I and 112Q); Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).)</i> <i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 90GA.</i> <i>(Also listed as Arts 112I and Computer Applications and Office Systems 112I.)</i> <i>Student may enroll in only one department for credit.</i> <i>Four hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Basic principles of using digital imaging software to produce graphics for Web sites. Introduction to digital imaging terminology and software. This course is for the content person to produce Web pages using digital images.		
<i>Prerequisite: CAD and Digital Imaging 80C.</i> <i>Eight hours lecture-laboratory.</i> Intermediate mechanical design using AutoCAD software. Emphasis is on the CAD design process and drawing production. Drawings will be produced in 2-D and 3-D.			CDI 112Q	Digital Imaging Software II (Photoshop)	2 Units
CDI 81D	AutoCAD (Intermediate)	4 Units	<i>(Students may receive credit for either Computer Applications and Office Systems 112A (or 112I and 112Q); Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).)</i> <i>Prerequisite: Arts 112I or CAD and Digital Imaging 112I or Computer Applications and Office Systems 112I.</i> <i>(Also listed as Arts 112Q and Computer Applications and Office Systems 112Q.)</i> <i>Student may enroll in only one department for credit.</i> <i>Four hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Basic and intermediate principles of using digital imaging software to produce graphics for Web sites. Introduction to digital imaging terminology and software. This course is for the content person to produce Web pages using digital images.		
<i>Prerequisite: CAD and Digital Imaging 80D.</i> <i>Eight hours lecture-laboratory.</i> Intermediate mechanical design using AutoCAD software. Emphasis is on the CAD design process and drawing production. Drawings will be produced in 2-D and 3-D.					
CDI 82C	AutoCAD Civil 3D	4 Units			
<i>Eight hours lecture-laboratory.</i> Application of AutoCAD Civil 3D in creating manufacturing models.					
CDI 82D	AutoCAD Civil 3D	4 Units			
<i>Eight hours lecture-laboratory.</i> Application of AutoCAD Civil 3D in creating manufacturing models.					
CDI 83C	AutoDesk REVIT Architecture	4 Units			
<i>Eight hours lecture-laboratory.</i> Application of REVIT Architecture in creating building designs and extracting documents.					
CDI 83D	AutoDesk REVIT Architecture	4 Units			
<i>Eight hours lecture-laboratory.</i> Application of REVIT Architecture in creating building designs and extracting documents.					
CDI 85C	AutoDesk Inventor	4 Units			
<i>Eight hours lecture-laboratory.</i> Fundamentals of computer-aided design and drafting using AutoDesk Inventor software. Application of Inventor in creating manufacturing models.					
CDI 85D	AutoDesk Inventor	4 Units			
<i>Eight hours lecture-laboratory.</i> Fundamentals of computer-aided design and drafting using AutoDesk Inventor software. Application of Inventor in creating manufacturing models.					
CDI 88C	AutoCAD (Update)	4 Units			
<i>Eight hours lecture-laboratory.</i> Principles and application changes in the AutoCAD software. Designed to upgrade users to the latest version yearly.					

CDI 114A Web Graphics/Animation Software (Flash) 3 Units

(Students may receive credit for either Computer Applications and Office Systems 114A (or 114I and 114Q); or Arts 114A (or 114I and 114Q); or CAD and Digital Imaging 114A.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 112A (or 112I and 112Q); or Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).

(Also listed as Arts 114A and Computer Applications and Office Systems 114A. Student may enroll in only one department for credit.)

Six hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic and intermediate principles of graphics/animation for the Web. Web graphics/animation terminology and software. This course is for the content person to build a Web site.

CDI 116A Web Development Graphics Software (Illustrator) 4 Units

(Students may receive credit for either Computer Applications and Office Systems 116A (or 116I and 116Q); or Arts 116A (or 116I and 116Q); or CAD and Digital Imaging 116A.)

Prerequisite: Computer Applications and Office Systems 112A (or 112I and 112Q); or Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Arts 116A and Computer Applications and Office Systems 116A. Student may enroll in only one department for credit.)

Eight hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic and intermediate principles of using vector-based graphics software to produce graphics for Web sites. Introduction to vector-based graphics terminology and software. This course is for the content person to produce vector graphic images.

CDI 117A Advanced Digital Imaging Software (Photoshop) 3 Units

Prerequisite: Computer Applications and Office Systems 112A, or Arts 112A, or CAD and Digital Imaging 112A.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 90GA.

(Also listed as Arts 117A and Computer Applications and Office Systems 117A.

Student may enroll in only one department for credit.)

Six hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Advanced principles and techniques of using digital imaging software to produce graphics for Web sites and printed media. Integration of digital imaging software with Web authoring software. This course is for the content person wishing to produce digital images for Web pages and print media.

CDI 118A Advanced Web Graphics/Animation Software (Flash) 3 Units

Prerequisite: Computer Applications and Office Systems 114A, or Arts 114A, or CAD and Digital Imaging 114A.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 90GA.

(Also listed as Arts 118A and Computer Applications and Office Systems 118A.

Student may enroll in only one department for credit.)

Six hours lecture-laboratory.

Pass-No Pass (P-NP) course.

An advanced Flash course that is projects and portfolio based and taught from a designer perspective. Students will be taught how to build a portfolio and animated multimedia presentation. Basic programming skills will be taught along with developing interactive Web-based multimedia presentations using ActionScripts, sound and graphics.

Cantonese

CANT 1 Elementary Cantonese (First Quarter) 5 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Cantonese language and culture of Southeast China in the region of Guangdong Province is presented and studied. Basic speaking, listening, reading and writing of Cantonese will be introduced within a cultural context. Emphasis will be on language as an expression of culture.

CANT 2 Elementary Cantonese (Second Quarter) 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Cantonese 1 (equivalent to one year of high school Cantonese) or equivalent.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Further development of material presented in Cantonese 1. Presentation and study of the second quarter elementary-level of Cantonese language and the culture of Guangdong Province. Basic speaking, listening, reading and writing of Cantonese will be continued and practiced within a cultural context. Emphasis will be on language as an expression of culture.

CANT 3 Elementary Cantonese (Third Quarter) 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Cantonese 2 (equivalent to two years of high school Cantonese) or equivalent.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Further development of material presented in Cantonese 1 and Cantonese 2. Presentation and study of the third quarter elementary-level of Cantonese language and the culture of Guangdong Province. Basic speaking, listening, reading and writing of Cantonese will be further introduced within a cultural context. Emphasis will be on language as an expression of culture.

CANT 60A Cantonese - Introductory Conversation (First Quarter) 3 Units

Three hours lecture.

An introduction to the language and cultures of Cantonese-speaking communities. Spoken Cantonese will be introduced with focus on pronunciation and vocabulary, in connection with elements of Chinese and Cantonese culture necessary to understand the language. Intensive drills in the patterns and idioms of daily speech will be supported by sufficient grammar to give flexibility in the spoken language.

CANT 60B Cantonese - Introductory Conversation (Second Quarter) 3 Units

Prerequisite: Cantonese 60A or equivalent.

Three hours lecture.

The next course in the introductory conversation Cantonese sequence, following Cantonese 60A. Continues the introduction to the language and culture of Cantonese-speaking communities. The vocabulary and grammatical structures mastered in Cantonese 60A will be consolidated and further developed, in conjunction with elements of Chinese and Cantonese culture. Emphasis will be on practical communication for everyday use, particularly conversational fluency.

CANT 60C Cantonese - Introductory Conversation (Third Quarter) 3 Units

Prerequisite: Cantonese 60B or equivalent.

Three hours lecture.

The next course in the introductory conversation Cantonese sequence, following Cantonese 60B. Continues the introduction to the language and culture of Cantonese-speaking communities. The vocabulary and grammatical structures mastered in Cantonese 60B will be consolidated and further developed, in conjunction with elements of Chinese and Cantonese culture. Focus will be on speaking and comprehension proficiency.

CANT 61A Cantonese - Intermediate Conversation (First Quarter) 3 Units

Prerequisite: Cantonese 60C or equivalent.

Three hours lecture.

The first course in the intermediate conversation Cantonese sequence, following Cantonese 60C. Continues the introduction to the language and culture of Cantonese-speaking communities in the world. The vocabulary and grammatical structures mastered in Cantonese 60C will be consolidated and further developed, in conjunction with elements of Chinese and Cantonese culture. Elements of Cantonese for business are introduced such as business setting interactions.

CANT 61B Cantonese - Intermediate Conversation (Second Quarter) 3 Units

Prerequisite: Cantonese 61A or equivalent.

Three hours lecture.

The next course in the intermediate conversation Cantonese sequence, following Cantonese 61A. Continues the introduction to the language and culture of Cantonese-speaking communities in the world. The vocabulary and grammatical structures mastered in Cantonese 61A will be consolidated and further developed, in conjunction with elements of Chinese and Cantonese culture and history to be discussed in class. Elements of Chinese for business are further introduced such as meeting discussions.

CANT 61C Cantonese - Intermediate Conversation (Third Quarter) 3 Units

Prerequisite: Cantonese 61B or equivalent.
Three hours lecture.

The high intermediate level of conversation, following Cantonese 61B. Continues the introduction to the language and culture of Cantonese-speaking communities in the world. The vocabulary and grammatical structures mastered in Cantonese 61B will be consolidated and further developed, in conjunction with elements of Chinese and Cantonese culture and history. Current events from newspaper/media will be discussed and elements of Chinese for business are further introduced such as every day commercial transactions.

Career Life Planning

CLP 70 Self-Assessment 4 Units

(See general education pages for the requirement this course meets.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Student may enroll in either Career Life Planning 70 or 75, but not both, for credit.)

Four hours lecture.

Examine the decision-making process by exploring theories in career development and other factors such as familial, social, and cultural issues that influence career and lifestyle choices. Utilize self-assessment inventories to identify individual interests, values, skills, and personality types as they relate to career/college major options. Become familiar with career development software, related technology and develop skills to enhance the job search process.

CLP 75 College Major and Career Options 2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Student may enroll in either Career Life Planning 70 or 75, but not both, for credit.)

Two hours lecture.

Pass-No Pass (P-NP) course.

Identify your compatible college majors and career options by completing a variety of self-assessment inventories. Examine how individual, family, social, and cultural perspectives influence the college major and career decision-making process. Review college major and career myths, the purpose and structure of higher education, and organizational structures found in employment settings.

Chemistry

CHEM 1A General Chemistry 5 Units

(See general education pages for the requirement this course meets.)
Prerequisites: High School Chemistry and satisfactory score on the Chemistry Placement Test (or Chemistry 50); Mathematics 114 or equivalent.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Three hours lecture, six hours laboratory.

An introduction to the structure and reactivity of matter at the molecular level. Application of critical reasoning to modern chemical theory and structured numerical problem solving. Development of molecular structure from rudimentary quantum mechanics, including an introduction to ionic and covalent bonding. Chemical problem solving involving both formula and reaction stoichiometry employing the unit analysis method. Application of Kinetic Molecular Theory to the study of classical gas laws and an introduction to thermochemistry.

CHEM 1B General Chemistry 5 Units

Prerequisite: Chemistry 1A with a grade of C or better.
Three hours lecture, six hours laboratory.

Continuation of an introduction to the principles of chemistry. Investigation of reversible reactions from the standpoints of kinetics, thermodynamics, and equilibrium. Application of equilibrium to the reactions of acids and bases.

CHEM 1C General Chemistry and Qualitative Analysis 5 Units

Prerequisite: Chemistry 1B with a grade of C or better.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Three hours lecture, six hours laboratory.

Introduction to electrochemistry, the chemistry of transition metals, and the chemistry of organic compounds. Identification of ions using qualitative analysis methods.

CHEM 10 Introductory Chemistry 5 Units

(See general education pages for the requirement this course meets.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.
Four hours lecture, three hours laboratory.

An introduction to the discipline of chemistry, including chemical laboratory techniques and methods and a survey of important chemical principles. The course emphasizes chemistry as a subject of scientific inquiry and is designed to give the student a general appreciation for chemistry as a science.

CHEM 12A Organic Chemistry 5 Units

Prerequisite: Chemistry 1C with a grade of C or better.
Advisory: English Writing 1A or English as a Second Language 5.
Three hours lecture, six hours laboratory.

An introduction to the physical properties and chemical behavior of important classes of organic compounds, focusing on hydrocarbons and haloalkanes. Emphasis on retrosynthesis, spectroscopic structure determination, and reaction mechanism. Laboratory experiments involving the synthesis of simple compounds and the characterization of those compounds using gas chromatography (GC) and infrared (IR) and nuclear magnetic resonance (NMR) spectroscopy. For chemistry majors or those in closely allied fields such as biochemistry and chemical engineering.

CHEM 12B Organic Chemistry 5 Units

Prerequisite: Chemistry 12A with a grade of C or better.
Advisory: English Writing 1A or English as a Second Language 5.
Three hours lecture, six hours laboratory.

An exploration of the physical properties and chemical behavior of important classes of organic compounds, focusing on: polyenes; aromatic compounds; alcohols, thiols, and ethers; and aldehydes and ketones and their derivatives. Emphasis on retrosynthesis, spectroscopic structure determination, and reaction mechanism. Laboratory experiments involving the synthesis of simple compounds and the characterization of those compounds using chromatography and infrared (IR), ultraviolet-visible (UV-Vis) and nuclear magnetic resonance (NMR) spectroscopy. For chemistry majors or those in closely allied fields such as biochemistry and chemical engineering.

CHEM 12C Organic Chemistry 5 Units

Prerequisite: Chemistry 12B with a grade of C or better.
Advisory: English Writing 1A or English as a Second Language 5.
Three hours lecture, six hours laboratory.

An exploration of the physical properties and chemical behavior of important classes of organic compounds, focusing on amines, carboxylic acids, and carboxylic acid derivatives, with an introduction to the chemistry of terpenes, lipids, carbohydrates, and proteins. Emphasis on retrosynthesis, spectroscopic structure determination, and reaction mechanism. Laboratory experiments involving the multi-step synthesis of organic compounds and characterize those compounds using chromatography and infrared (IR), ultraviolet-visible (UV-Vis) and nuclear magnetic resonance (NMR) spectroscopy. For chemistry majors or those in closely allied fields such as biochemistry and chemical engineering.

CHEM 30A Survey of Chemistry 5 Units

Prerequisite: Mathematics 114 or equivalent.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Four hours lecture, three hours laboratory.

An introduction to fundamental topics in general and inorganic chemistry as preparation for the biological and health sciences.

CHEM 30B Survey of Chemistry 5 Units

Prerequisite: Chemistry 30A.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Four hours lecture, three hours laboratory.

An introduction to fundamental topics in general and organic chemistry as preparation for the biological and health sciences.

CHEM 50 Preparation Course for General Chemistry 5 Units

Prerequisite: Mathematics 114 or equivalent.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Four hours lecture, three hours laboratory.

An introduction to the core theory and problem-solving techniques of chemistry as preparation for Chemistry 1A and other science related fields. An introduction to gravimetric and volumetric analysis, rudimentary laboratory equipment and operations, and the preparation and maintenance of a laboratory notebook.

CHEM 77 Special Projects in Chemistry 1 Unit
CHEM 77X 2 Units
CHEM 77Y 3 Units

Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit.
(Any combination of Chemistry 77, 77X and 77Y may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)
Pass-No Pass (P-NP) course.
 Individual special reading, writing, or study projects in chemistry as determined in consultation with the instructor.

C D 10G Child Development (The Early Years) 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Psychology 10G. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

An examination of human growth and development from conception to middle childhood with particular attention given to current theoretical and research perspectives within a diverse society. Observational study of children with analysis of factors influencing development including conditions that put children at risk. (This course meets NAEYC Standards 1 and 3; NBPTS Standards 1 and 4; and CEC Standards 1, 2 and 3.)

C D 10H Child Development (Middle Childhood and Adolescence) 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Psychology 10H. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

An examination of human growth and development both typical and atypical from school age through adolescence with particular attention given to current theoretical and research perspectives within a diverse society.

(This course meets NAEYC Standards 1 and 3; NBPTS Standards 1 and 4; and CEC Standards 1, 2 and 3.)

C D 12 Child, Family and Community Interrelationships 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

An introduction to the study of the developing person in a societal context including the interrelationship of family, schools and community.

(Applicable standards to this course: NAEYC Standards; Standard 2 Building Family and Community Relationship; NBPTS Early Childhood Generalist Standards; Standard 2 Equity, Fairness and Diversity; Standard 7 Family, Community Partnerships; Standard 9 Reflective Practice; CEC/DEC Standards; Standard 9 Professional and Ethical Practice; Standard 10 Collaboration)

C D 50 Principles and Practices of Teaching Young Children 3 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture.

The underlying theoretical principles of developmentally appropriate practices applied to programs, environments, and teaching strategies.

(Applicable standards for this course: NAEYC Standard 4 Teaching and Learning; 4a Connecting with children and families; 4b Using developmentally effective approaches; Standard 5 Becoming a Professional 5a-5e; NBPTS Standard IV promoting Child Development and Learning; Standard IX Reflective Practice; CEC/DEC Standard 3 Individual learning differences; Standard 5 Learning environments and social interactions; Standard 9 Professional and ethical practice)

C D 51 Student Teaching Practicum 5 Units

Prerequisite: Child Development 10G, 52, 54, and two other Child Development curriculum courses (Child Development 53, 55, 61 or 63).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Ten hours lecture-laboratory.

(May be taken up to three times for credit as long as experience is different each time.)

Laboratory experience with guided supervision working with children from infancy through the school age years. Emphasis will be on making connections between theory and practice, using observation and interactions to understand children's development, implementing developmentally appropriate, child centered approaches to teaching and learning and developing professional behaviors and attitudes.

(This course meets the NAEYC Standards 1, 2, 3, 4, and 5; and NBPTS Standards 1 through 9.)

C D 52 Observation and Assessment of the Young Child 3 Units

Prerequisite: Child Development 10G and 50. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture.

Observation strategies and formal assessment methodologies used to understand children's development, age-appropriate curriculum and the classroom setting. (This course meets NAEYC Standards 3a-3d; NBPTS Standards 3 and 4; and DEC Standard 8 Assessment.)

C D 53 Creative Art for the Young Child 3 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture.

Overview of creative activities for children from infancy through the school years. Emphasis is on design, presentation and assessment of developmentally appropriate activities that use sensory, child centered materials to enhance imagination, creative thinking, problem solving, divergent thinking and self-expression in young children. Special attention is given to creating a climate that supports creative exploration and the role of the teacher in promoting growth and development of creativity in each child.

(This course meets NAEYC Standards 1a, 1b, 1c; 4a, 4b, 4d; NBPTS Standards I, II, IV, VI; and CDE/DEC Standards CC1- K10, CC4-S2; EC4-S1; CC7, S10, S11, S13; EC7-S2.)

C D 54 Curriculum for Early Childhood Programs 3 Units

Prerequisite: Child Development 10G (may be taken concurrently).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture.

Curriculum development with emphasis on planning curriculum that is emergent, developmentally and individually appropriate and inclusive.

(This course meets NAEYC Standards 1 and 4; and NBPTS Standards 4, 5 and 6.)

C D 55 Literacy Development and Activities for the Young Child 3 Units

Advisory: Child Development 10G and/or Child Development 50.

Three hours lecture.

Theories of language acquisition and the process of language development in monolingual and young English language learners. Introduction to methods and materials that enhance emerging language and literacy for infants through school-age children in a culturally diverse society.

(This course meets NAEYC Standards 1a, 1b, 1c; 3a, 3b, 3c; 4b, 4c, 4d.)

C D 56 Understanding and Working with English Language Learners 3 Units

(Also listed as Education 56. Student may enroll in either department, but not both, for credit.)

Three hours lecture.

Developmental and cultural examination of the bilingual child in early childhood programs. Theories and developmental sequence of bilingual language acquisition. Role of teacher and methods for supporting the bilingual child.

C D 57 Self-Assessment for Teachers of Young Children: Field Experience 3 Units

Prerequisite: Child Development 10G.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours lecture, three hours laboratory.

Use of self-assessment techniques for individualized teacher preparation with emphasis on understanding the development of the child, teaching, guidance techniques, and assessment of personal effectiveness in the classroom. Student will use field placement to practice and develop skills.

C D 58 Infant/Toddler Development 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Development of physical, cognitive, social and emotional development from infancy to age three with emphasis on cultural diversity and family partnerships. Program planning based on observation of individual infants and communication with parents. Evaluation of assessment tools and methods for infants and toddlers, including administration, and interpretation. Development of needs and service plans for individual infants.

(This course meets NAEYC Standards 1-5; NBPTS Standards 4 and 5; and DEC Standard 5 Family Based Practices.)

- C D 59G Supervision and Administration of Child Development Programs (Management Systems) 4 Units**
Prerequisite: A minimum of 12 units of Child Development coursework, which includes Child Development 10G.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 Four hours lecture.
 A study of the development of management systems for the supervision and administration of various kinds of early childhood programs in the context of a diverse society. Emphasis is on program planning, organizational structure, program operation, program evaluation, budgeting, and personnel management.
- C D 59H Supervision and Administration of Child Development Programs (Leadership Skills) 4 Units**
Prerequisite: A minimum of 12 units of Child Development course work, which includes Child Development 10G.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 Four hours lecture.
 A study of the methods and principles of leadership as they apply to administration of programs in early childhood settings. Emphasis is on personnel management, leadership styles and skills, interpersonal communication, ethical and professional standards and an awareness of the sociopolitical context of early childhood programs.
- C D 60 Exceptional Children 3 Units**
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 Three hours lecture.
 Characteristics and causes of exceptionality and the inclusion of children with disabilities in childhood settings (infant - adolescence), includes discussion of developmental disabilities, family, and community involvement. Implementation of State and Federal law, as well as the examination of attitudes and feelings about exceptionality.
 (This course meets NAEYC Standards 1a,2a,2c,3a; CEC/DEC Standards CC2-K1-7,CC3-K1,CC5-K4,CC8-K1-5; and NBPTS Standards 2,3,8.)
- C D 61 Music and Movement (Developmental Foundations) 3 Units**
(See general education pages for the requirement this course meets.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 Three hours lecture.
 A developmental introduction to music and movement experiences. Students will have opportunities to engage in and to reflect on how music and movement fosters healthy development in children and adults. Students will also have opportunities to see how music and movement defines and is linked to cultural experience and to who we are as individuals.
- C D 63 Math and Science Activities for the Young Child 3 Units**
Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
 Three hours lecture.
 Design and assess developmentally appropriate activities and environments that foster curiosity and problem solving in young children. Emphasis on constructivist theories of cognitive development as a foundation for planning and implementing math and science curriculum for each child.
 (This course meets NAEYC Standards 1a,1b,1c, 4b, 4c, 5a, 5b, 5c; NBPTS Standards I-VI; CED/DEC Standards CC4-S2, EC4-S1, CC7-K1, CC7-S1, CC7-S10, CC7-S11, CC7-S13, EC7-S4.)
- C D 64 Health, Safety, and Nutrition for the Young Child 3 Units**
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 Three hours lecture.
 Health, safety, and nutritional practices needed for the protection and improvement of the health of preschool children. Includes infant, child, and adult first aid. CPR can be taken in the community through the Red Cross, American Heart Association or at De Anza College (Health 57E).
 (This course meets the California State requirements for health, safety, and nutrition.)
- C D 65 Programs for School-Age Child Care 3 Units**
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 Three hours lecture.
 Before and after school programs for children in kindergarten through sixth grade with emphasis on developmental characteristics, program philosophy, licensing requirements, program content, and criteria for evaluation.
 (This course meets NAEYC Standards 1 and 4 and NBPTS 4, 5 and 6 standards.)
- C D 66 Montessori Methods and Materials 3 Units**
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Child Development 10G.
 Three hours lecture.
 Philosophical foundations and the environmental components of the Montessori Method in early childhood education.
- C D 67 Supervision and Administration of Child Development Programs (Adult Supervision) 3 Units**
Prerequisite: Child Development 10G, 12 and 54. *Advisory:* English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 Three hours lecture.
 A study of the methods and principles of supervising student teachers, assistant teachers, parents and volunteers in early childhood classrooms. Emphasis is on the role of teachers supervising other adults while simultaneously addressing the classroom needs of children, parents and the program.
- C D 68 Teaching in a Diverse Society 3 Units**
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 Three hours lecture.
 Examination of the development of social identities in diverse societies including theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms and teaching. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society.
 (This course meets NAEYC Standards 1a, 1b, 1c, 2a, 2b, 2c, 4a, 4b, 5b, 5c; NBPTS Standards II, VII; CEC/DEC Standards CC2-K3, CC2-K4, EC2-K4, CC3-K3, CC3-K4, CC5-K9, CC5-K10, CC6-K1, CC6-K2, CC6-K3, CC9-K1, CC9-S6, CC10-S3)
- C D 69 Early Childhood Education Principles and Practices (Cross-Cultural Emphasis) 3 Units**
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 (Also listed as Anthropology 69. Student may enroll in either department, but not both, for credit.)
 Three hours lecture.
 The underlying principles of early education, in which national, state, and local practices will be examined in contrast to options presented through ethnographic data of diverse cultures.
- C D 70 Seminar in Parenting the Preschool Child 1 Unit**
 One hour lecture.
 (May be taken up to six times for credit as long as the topics are different each time.)
 Pass-No Pass (P-NP) course.
 A seminar for parents of young children ages two-six years old. Selected topics such as understanding developmental stages, child guidance and discipline, effective parenting skills.
- C D 71 Constructive Guidance and Positive Discipline in Early Childhood 3 Units**
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 Three hours lecture.
 Explores the principals and techniques that promote high self-esteem and positive behaviors in young children.
 (This course meets NAEYC Standards 1a,1c, 2b, 4a, 4b; DEC/CEC Standards CC3-K3, EC3-S1, CC6-K3; and NBPTS Standard 2.)
- C D 72 Partnerships with Families in Early Childhood Education 3 Units**
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 Three hours lecture.
 An examination of the key principles and effective approaches in family support practice; strategies to communicate and involve families in early childhood education.
 (This course meets NAEYC Standard 2, Building Families and Community Relationships; NBPTS Generalist Standard VII, Family and Community Partnerships; and CEC/DEC Standard 10, Collaboration.)
- C D 73 Early Childhood Mental Health 3 Units**
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 (Also listed as Education 73. Student may enroll in either department, but not both, for credit.)
 Three hours lecture.
 Examination of child development and mental health theory. Assessment and screening to identify childhood mental health challenges. Implementation of mental health interventions and strategies. An exploration of how violence impacts the physical and psychological well-being of adults and children.

C D 74 Early Childhood Mental Health Seminar and Fieldwork 3 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Also listed as Education 74. Student may enroll in either department, but not both, for credit.)

Two hours lecture, three hours laboratory.

Provides an overview of different approaches to early intervention with children and their families and will help students develop basic support skills for use in dealing with high risk families, including those with exceptional emotional, social or physical needs.

C D 75 Social Emotional Development in Early Childhood 3 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture.

Social emotional development and how peer, family, gender, teachers and society influence this development. The impact of variations in development on learning and life outcomes.

(This course meets NAEYC Standards 1a,1b,1c,2b,4a; CEC/DEC Standards CC2-K1; and NBPTS Standards 1 and 4.)

C D 77 Special Projects in Child Development 1/2 Unit

C D 77W 1 Unit

C D 77X 2 Units

C D 77Y 3 Units

Prerequisite: Approved Special Projects Contract.

Advisory: English Writing 1A or English as a Second Language 5.

Three hours laboratory for each unit of credit.

(Any combination of Child Development 77, 77W, 77X and 77Y may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)

Designed for students with a Child Development permit at the Master Teacher level or above. Offers students the opportunity to research a topic of interest in the field of Child Development. Involves research of a topic of interest to the student. Research may include a review of the literature, interviews and other fieldwork such as exploring community resources or investigating a common teaching practice for effectiveness.

C D 80 Design, Program Development, and Daily Operation of Family Child Care 3 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture.

An overview of family childcare as a business and as a program for children. Starting your own childcare business, budget and contracts, licensing and safety requirements will be addressed. Relevant program issues such as designing indoor/outdoor environments, daily schedule, curriculum, child guidance, accommodations for all children and parent partnerships will be presented.

C D 90 Facilitating Inclusion in Early Childhood Programs: Intervention Strategies 3 Units

Prerequisites: Child Development 10G and 60.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture.

Expands upon a student's ability to work effectively with all children in early childhood programs and more specifically with infants, toddlers and preschoolers with disabilities and other special needs in inclusive environments. Focus will include theories, research, and practical applications of best practices from both the fields of Early Childhood Education and Early Intervention/Early Childhood Special Education. Students will learn to design practical and effective intervention strategies for individual children with special needs within the context of natural environments and will learn to work in collaboration with IFSP/IEP teams.

(This course meets NAEYC Standards 1a, 1c, 2b, 3a, 3b, 3d, 4b; CEC/DEC Standards CC3-K4, CCK-5, CC4-S1-6, EC4-S1-3, CC5-K3, CC5-S1-5; and NBPTS Standards 2 and 4.)

C D 101W Current Issues in Child Development 1 Unit

C D 101X 2 Units

C D 101Y 3 Units

C D 101Z 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

One hour lecture for each unit of credit.

(Any combination of Child Development 101W, 101X, 101Y and 101Z may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.)

In-service workshop for teachers, aides, and parent volunteers to increase awareness of contemporary professional issues in Child Development.

C D 102W Curriculum for Child Development Personnel 1 Unit

C D 102X 2 Units

C D 102Y 3 Units

C D 102Z 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

One hour lecture for each unit of credit.

(Any combination of Child Development 102W, 102X, 102Y and 102Z may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.)

In-service workshop for teachers, aides, and parent volunteers to improve skills and knowledge in the area of curriculum for Child Development personnel.

C D 103W Topics in Preschool Program Administration 1 Unit

C D 103X 2 Units

C D 103Y 3 Units

C D 103Z 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

One hour lecture for each unit of credit.

(Any combination of Child Development 103W, 103X, 103Y and 103Z may be taken up to six times, not to exceed 18 units, as long as the topics are different each time.)

In-service workshop for program directors, site supervisors, head teachers, or others with administrative or supervisory responsibility to improve skills and knowledge in the area of Child Development program administration.

Computer Applications and Office Systems

CAOS 70A Elementary Keyboarding 3 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Six hours lecture-laboratory.

(Any combination of Computer Applications and Office Systems 70A, 70AA and 70AB may be taken up to six times, not to exceed 18 units, for credit for the family of courses.)

Basic keyboarding skills and techniques: introduction to formatting letters, tables, and reports using word processing software.

CAOS 70AA Elementary Keyboarding I 1 1/2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Students wishing to take this as a letter-graded course must obtain a special course ID number from the CAOS Department in AT203.)

Three hours lecture-laboratory.

(Any combination of Computer Applications and Office Systems 70A, 70AA and 70AB may be taken up to six times, not to exceed 18 units, for credit for the family of courses.)

Pass-No Pass (P-NP) course.

Basic keyboarding skills and techniques.

CAOS 70AB Elementary Keyboarding II 1 1/2 Units

Prerequisite: Computer Applications and Office Systems 70AA.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Students wishing to take this as a letter-graded course must obtain a special course ID number from the CAOS Department in AT203.)

Three hours lecture-laboratory.

(Any combination of Computer Applications and Office Systems 70A, 70AA and 70AB may be taken up to six times, not to exceed 18 units, for credit for the family of courses.)

Pass-No Pass (P-NP) course.

Basic keyboarding skills and techniques: introduction to formatting letters, tables, and reports using word processing software.

CAOS 80A Office Procedures I 1 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 70A.

(Students wishing to take this as a letter-graded course must obtain a special course ID number from the CAOS Department in AT203.)

Two hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Simulated on-the-job training in office communications: interpersonal, mail, telephone, and business travel.

CAOS 80B Office Procedures II 1 Unit <i>Prerequisite: Computer Applications and Office Systems 80A.</i> <i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i> <i>(Students wishing to take this as a letter-graded course must obtain a special course ID number from the CAOS Department in AT203.)</i> <i>Two hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Create and edit standard types of office documents using the computer.	CAOS 91AK Word Processing I (Word 2000) 2 Units <i>Prerequisite: Computer Applications and Office Systems 70AA.</i> <i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i> <i>(Students wishing to take this as a letter-graded course must obtain a special course ID number from the CAOS Department in AT203.)</i> <i>Four hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Concepts and applications using a word processing computer software program.
CAOS 80C Office Procedures III 1 Unit <i>Prerequisite: Computer Applications and Office Systems 80B.</i> <i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i> <i>(Students wishing to take this as a letter-graded course must obtain a special course ID number from the CAOS Department in AT203.)</i> <i>Two hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Create and edit complex types of documents using the computer and use appropriate office procedures to process the documents.	CAOS 91AL Word Processing I (Word XP/2002) 2 Units <i>Prerequisite: Computer Applications and Office Systems 70AA.</i> <i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i> <i>(Students wishing to take this as a letter-graded course must obtain a special course ID number from the CAOS Department in AT203.)</i> <i>Four hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Concepts and applications using a word processing computer software program.
CAOS 81H 10-key and Electronic Calculator 1 Unit <i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i> <i>(Students wishing to take this as a letter-graded course must obtain a special course ID number from the CAOS Department in AT203.)</i> <i>Two hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Basic 10-key skills and techniques in the use of the electronic calculator.	CAOS 91AM Word Processing I (Word 2007) 2 Units <i>Prerequisite: Computer Applications and Office Systems 70AA.</i> <i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i> <i>(Students wishing to take this as a letter-graded course must obtain a special course ID number from the CAOS Department in AT203.)</i> <i>Four hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Concepts and applications using a word processing computer software program.
CAOS 84A Business English I 2 Units <i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272-273; Mathematics 114 or equivalent.</i> <i>(Students wishing to take this as a letter-graded course must obtain a special course ID number from the CAOS Department in AT203.)</i> <i>Four hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Review of English grammar, punctuation, usage, and writing skills and applications of these skills to basic business communications.	CAOS 91BK Word Processing II (Word 2000) 2 Units <i>Prerequisite: Computer Applications and Office Systems 91AK.</i> <i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i> <i>(Students wishing to take this as letter-graded course must obtain a special course ID number from the CAOS Department in AT203.)</i> <i>Four hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Advanced word processing concepts and applications using a computer software program.
CAOS 84B Business English II 1 Unit <i>Prerequisite: Computer Applications and Office Systems 84A.</i> <i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 114 or equivalent.</i> <i>(Students wishing to take this as a letter-graded course must obtain a special course ID number from the CAOS Department in AT203.)</i> <i>Two hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Review of advanced business writing skills and application of these skills to basic business communication.	CAOS 91BL Word Processing II (Word XP/2002) 2 Units <i>Prerequisite: Computer Applications and Office Systems 91AL.</i> <i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i> <i>(Students wishing to take this as letter-graded course must obtain a special course ID number from the CAOS Department in AT203.)</i> <i>Four hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Advanced word processing concepts and applications using a computer software program.
CAOS 90G Computer Literacy (PC) 4 Units <i>(Students may take either Computer Applications and Office Systems 90G or, 90GA and 90GB, but not both, for credit.)</i> <i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i> <i>Eight hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Introduction to a microcomputer - hardware and software. Theory and hands-on activities using word processing, spreadsheet, presentation graphics, database, e-mail, operating systems, and Internet applications.	CAOS 91BM Word Processing II (Word 2007) 2 Units <i>Prerequisite: Computer Applications and Office Systems 91AM.</i> <i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i> <i>(Students wishing to take this as letter-graded course must obtain a special course ID number from the CAOS Department in AT203.)</i> <i>Four hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Advanced word processing concepts and applications using a computer software program.
CAOS 90GA Computer Literacy I (PC) 2 Units <i>(Students may take either Computer Applications and Office Systems 90G or, 90GA and 90GB, but not both, for credit.)</i> <i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i> <i>Four hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Introduction to a microcomputer - hardware and software. Theory and interactive learning activities using word processing, spreadsheet, presentation graphics, database, e-mail, operating systems, and Internet applications.	CAOS 93AH Spreadsheet I (Excel IBM) 2 Units <i>Prerequisite: Computer Applications and Office Systems 90GA or 100G.</i> <i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i> <i>Four hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> A general introduction to basic data manipulation skills and techniques used with spreadsheets: editing, computation, database management, graphing.
CAOS 90GB Computer Literacy II (PC) 2 Units <i>(Students may take either Computer Applications and Office Systems 90G or, 90GA and 90GB, but not both, for credit.)</i> <i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i> <i>Four hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Introduction to a microcomputer - hardware and software. Theory and interactive learning activities using word processing, spreadsheet, presentation graphics, database, e-mail, operating systems, and Internet applications.	CAOS 93AK Spreadsheet I (Excel 2000) 2 Units <i>Prerequisite: Computer Applications and Office Systems 90GA or 100G.</i> <i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i> <i>Four hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> A general introduction to basic data manipulation skills and techniques used with spreadsheets: editing, computation, database management, graphing.

CAOS 93AL Spreadsheet I (Excel XP/2002) 2 Units

Prerequisite: Computer Applications and Office Systems 90GA or 100G.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

A general introduction to basic data manipulation skills and techniques used with spreadsheets: editing, computation, database management, graphing.

CAOS 93AM Spreadsheet I (Excel 2007) 2 Units

Prerequisite: Computer Applications and Office Systems 90GA or 100G.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

A general introduction to basic data manipulation skills and techniques used with spreadsheets: editing, computation, database management, graphing.

CAOS 93BH Spreadsheet II (Excel IBM) 2 Units

Prerequisite: Computer Applications and Office Systems 93AH.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Advanced spreadsheet design using unique spreadsheet features: graphing, information retrieval, table searches, financial business calculations for decision making.

CAOS 93BK Spreadsheet II (Excel 2000) 2 Units

Prerequisite: Computer Applications and Office Systems 93AK.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Advanced spreadsheet design using unique spreadsheet features: graphing, information retrieval, table searches, financial business calculations for decision making.

CAOS 93BL Spreadsheet II (Excel XP/2002) 2 Units

Prerequisite: Computer Applications and Office Systems 93AL.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Advanced spreadsheet design using unique spreadsheet features: graphing, information retrieval, table searches, financial business calculations for decision making.

CAOS 93BM Spreadsheet II (Excel 2007) 2 Units

Prerequisite: Computer Applications and Office Systems 93AM.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Advanced spreadsheet design using unique spreadsheet features: graphing, information retrieval, table searches, financial business calculations for decision making.

CAOS 94 Introduction to the Internet and World Wide Web 1 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Computer Information Systems 94. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Introduction to using the Internet. Topics include an overview of the World Wide Web, e-mail, news groups, bulletin boards, WWW browsers, basic Web page elements and exploration of virtual communities.

CAOS 98U Internship, Business/Computer Systems Division 1 Unit

CAOS 98V 2 Units
CAOS 98W 3 Units
CAOS 98X 4 Units
CAOS 98Y 5 Units
CAOS 98Z 6 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Accounting 98U-Z, Business 98U-Z, and Computer Information Systems 98U-Z. Student may enroll in only one department for credit.)

Four hours laboratory per unit of supervised internship in an authorized office or agency.

(Any combination of Accounting 98U-Z, Business 98U-Z, Computer Applications and Office Systems 98U-Z, and Computer Information Systems 98U-Z may be taken up to six times, not to exceed 18 units, for credit. During each internship, students will be placed at different employer locations, different working environments, and/or given different assignments within the same company or department--thus providing the students with various opportunities to learn different skills. Students may repeat the same internship location and working environment if the student, employer, and instructor believe it would provide the student with increased work experience.)

Off-campus supervised experiential education/internship for Business/Computer Systems Division students in research or business office environments related to student's major. Practical application of knowledge, skills and abilities acquired in student's major. Opportunity for additional hands-on training. Exposure to varied corporate, state and federal protocols, methodologies and practices in a professional environment.

CAOS 100G Orientation to the PC (Personal Computer) 1/2 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

One hour lecture-laboratory.

Pass-No Pass (P-NP) course.

Personal computer hardware and commands needed for applications programs.

CAOS 102K Microsoft Windows I (Windows 2000) 1 Unit

Prerequisite: Computer Applications and Office Systems 90GA or 100G.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Two hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Use of an operating environment which extends the Microsoft Disk Operating System (MS DOS) and the use of the Microsoft Windows Desktop Applications programs.

CAOS 102L Microsoft Windows I (Windows XP) 1 Unit

Prerequisite: Computer Applications and Office Systems 90GA or 100G.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Two hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Use of an operating environment which extends the Microsoft Disk Operating System (MS DOS) and the use of the Microsoft Windows Desktop Applications programs.

CAOS 102M Microsoft Windows I (Windows Vista) 1 Unit

Prerequisite: Computer Applications and Office Systems 90GA or 100G.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Two hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Use of an operating environment which extends the Microsoft Disk Operating System (MS DOS) and the use of the Microsoft Windows Desktop Applications programs.

CAOS 102T Microsoft Windows I (Windows NT/95) 1 Unit

Prerequisite: Computer Applications and Office Systems 90GA or 100G.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Two hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Use of an operating environment which extends the Microsoft Disk Operating System (MS DOS) and the use of the Microsoft Windows Desktop Applications programs.

CAOS 104I Ten-Key on the Computer 1/2 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 70AA or 173.

One hour lecture-laboratory.

Pass-No Pass (P-NP) course.

Development of ten-key numeric data entry skills. Emphasis on developing speed and accuracy in entering numeric data in an office environment.

De Anza College.
Just What You Need

CAOS 104K Introduction to Proofreading Skills 1 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 70AA.

Two hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Entry-level concepts and methods of proofreading. Emphasis on proofreading short business documents, multi-page reports, tables, and graphics.

CAOS 104O Introduction to Filing 1 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 70AA or 173 and 102K, 102L, 102M or 102T.

Two hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Entry-level concepts and terminology of filing rules for an office environment.

CAOS 105 Introduction to HTML 1 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Two hours lecture-laboratory.

Pass-No Pass (P-NP) course.

An introduction to hypertext markup language (HTML) covering creation of hyperlinks, inserting images, and producing basic tables and forms.

CAOS 106 Adobe Acrobat 1 Unit

Advisory: Computer Applications and Office Systems 90GA.

Two hours lecture-laboratory.

Pass-No Pass (P-NP) course.

An introduction to basic techniques covering creation, modification and review of PDF documents, and interactive PDF forms using Adobe Acrobat.

CAOS 107G Business Office Math 2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Review of basic math skills with emphasis on business applications and critical thinking problems. Instruction and application exercises involving math tasks needed for employment.

CAOS 108 Personal Computer Security Basics 4 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 90GA or equivalent.

(Also listed as Computer Information Systems 108. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Beginner's computer security course for small office or home users. Learn to stop hackers, worms, viruses, spyware, Web bugs and identity theft. Learn vulnerabilities found in Web browsers, e-mail and operating systems. Protect against online purchase dangers, install firewalls, manage cookies, restrict ports, analyze log files, evaluate wireless networks and examine encryption.

CAOS 109 Data and Filing Management 2 Units

(Formerly Computer Applications and Office Systems 88.)

Prerequisite: Computer Applications and Office Systems 70AA.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Management of business records and of indexing and filing procedures; theory and practice of alphabetic, numeric, geographic and subject systems. Utilize manual and computer applications to apply correct data management procedures.

CAOS 110K Database I (Access 2000) 2 Units

Prerequisite: Computer Applications and Office Systems 90GA or 100G or 102K.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Use of database software to create, search, modify and arrange information.

CAOS 110L Database I (Access XP/2002) 2 Units

Prerequisite: Computer Applications and Office Systems 90GA or 100G or 102L.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Use of database software to create, search, modify and arrange information.

CAOS 110M Database I (Access 2007) 2 Units

Prerequisite: Computer Applications and Office Systems 90GA or 100G or 102M.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Use of database software to create, search, modify and arrange information.

CAOS 111K Database II (Access 2000) 2 Units

Prerequisite: Computer Applications and Office Systems 110K.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Use database commands to build and modify data files and forms, refine queries and generate customized reports. Integrate database files with other applications.

CAOS 111L Database II (Access XP/2002) 2 Units

Prerequisite: Computer Applications and Office Systems 110L.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Use database commands to build and modify data files and forms, refine queries and generate customized reports. Integrate database files with other applications.

CAOS 111M Database II (Access 2007) 2 Units

Prerequisite: Computer Applications and Office Systems 110M.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Use database commands to build and modify data files and forms, refine queries and generate customized reports. Integrate database files with other applications.

CAOS 112A Digital Imaging Software (Photoshop) 4 Units

(Students may receive credit for either Computer Applications and Office Systems 112A (or 112I and 112Q); Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 90GA.

(Also listed as Arts 112A and CAD and Digital Imaging 112A. Student may enroll in only one department for credit.)

Eight hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic and intermediate principles using digital imaging software to produce graphics for Web sites. Introduction to digital imaging terminology and software. This course is for the content person to produce Web pages using digital images.

CAOS 112I Digital Imaging Software I (Photoshop) 2 Units

(Students may receive credit for either Computer Applications and Office Systems 112A (or 112I and 112Q); Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 90GA.

(Also listed as Arts 112I and CAD and Digital Imaging 112I. Student may enroll in only one department for credit.)

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic principles of using digital imaging software to produce graphics for Web sites. Introduction to digital imaging terminology and software. This course is for the content person to produce Web pages using digital images.

CAOS 112Q Digital Imaging Software II (Photoshop) 2 Units

(Students may receive credit for either Computer Applications and Office Systems 112A (or 112I and 112Q); Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).)

Prerequisite: Arts 112I or CAD and Digital Imaging 112I or Computer Applications and Office Systems 112I.

(Also listed as Arts 112Q and CAD and Digital Imaging 112Q. Student may enroll in only one department for credit.)

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic and intermediate principles of using digital imaging software to produce graphics for Web sites. Introduction to digital imaging terminology and software. This course is for the content person to produce Web pages using digital images.

CAOS 113A Web Authoring Software (Dreamweaver) 4 Units

(Students may receive credit for either Computer Applications and Office Systems 113A (or 113I and 113Q); or Arts 113A (or 113I and 113Q).)

Prerequisite: Computer Applications and Office Systems 90GA, 102K, 102L, 102M, or 102T.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Arts 113A. Student may enroll in either department, but not both, for credit.)

Eight hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic and intermediate principles of building Web pages/sites using Web authoring software. Introduction to Web authoring terminology and software. This course is for the content person to develop and maintain an effective Web site.

CAOS 113I Web Authoring Software I (Dreamweaver) 2 Units

(Students may receive credit for either Computer Applications and Office Systems 113A (or 113I and 113Q); or Arts 113A (or 113I and 113Q).)

Prerequisite: Computer Applications and Office Systems 90GA, 102K, 102L, 102M, or 102T.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Arts 113I. Student may enroll in either department, but not both, for credit.)

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic principles of building Web pages/sites using Web authoring software. Introduction to Web authoring terminology and software. This course is for the content person to develop and maintain an effective Web site.

CAOS 113Q Web Authoring Software II (Dreamweaver) 2 Units

(Students may receive credit for either Computer Applications and Office Systems 113A (or 113I and 113Q); or Arts 113A (or 113I and 113Q).)

Prerequisite: Arts 113I or Computer Applications and Office Systems 113I.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Arts 113Q. Student may enroll in either department, but not both, for credit.)

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Intermediate principles of building Web pages/sites using Web authoring software. Expansion of Web authoring terminology and use of more advanced software features. This course is for the content person to develop and maintain an effective Web site.

CAOS 114A Web Graphics/Animation Software (Flash) 3 Units

(Students may receive credit for either Computer Applications and Office Systems 114A (or 114I and 114Q); or Arts 114A (or 114I and 114Q); or CAD and Digital Imaging 114A.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 112A (or 112I and 112Q); or Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).

(Also listed as Arts 114A and CAD and Digital Imaging 114A. Student may enroll in only one department for credit.)

Six hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic and intermediate principles of graphics/animation for the Web. Web graphics/animation terminology and software. This course is for the content person to build a Web site.

CAOS 114I Web Graphics/Animation Software I (Flash) 1 1/2 Units

(Students may receive credit for either Computer Applications and Office Systems 114A (or 114I and 114Q); or Arts 114A (or 114I and 114Q); or CAD and Digital Imaging 114A.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 112A (or 112I and 112Q); or Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).

(Also listed as Arts 114I. Student may enroll in either department, but not both, for credit.)

Three hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic principles of graphics/animation for the Web. Introduction to Web graphics/animation terminology and software. This course is for the content person to build a Web site.

CAOS 114Q Web Graphics/Animation Software II (Flash) 1 1/2 Units

(Students may receive credit for either Computer Applications and Office Systems 114A (or 114I and 114Q); or Arts 114A (or 114I and 114Q); or CAD and Digital Imaging 114A.)

Prerequisite: Computer Applications and Office Systems 114I or Arts 114I.

(Also listed as Arts 114Q. Student may enroll in either department, but not both, for credit.)

Three hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Intermediate principles of graphics/animation for the Web. Expansion of Web graphics/animation terminology and software. This course is for the content person to build a Web site.

CAOS 115A E-Commerce Software (Dreamweaver UltraDev - CS3) 4 Units

(Students may receive credit for either Computer Applications and Office Systems 115A (or 115I and 115Q).)

Prerequisite: Computer Applications and Office Systems 113A (or 113I and 113Q); or Arts 113A (or 113I and 113Q); and Computer Applications and Office Systems 110K, 110L or 110M (or another database software).

Eight hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic and intermediate principles of using e-commerce software to create effective Web sites. Introduction to e-commerce terminology and software. This course is for the content person to produce effective, database-driven Web sites to start an on-line business.

CAOS 115I E-Commerce Software I (Dreamweaver UltraDev - CS3) 2 Units

(Students may receive credit for either Computer Applications and Office Systems 115A (or 115I and 115Q).)

Prerequisite: Computer Applications and Office Systems 113A (or 113I and 113Q); or Arts 113A (or 113I and 113Q); and Computer Applications and Office Systems 110K, 110L or 110M (or another database software).

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic principles of using e-commerce software to create effective Web sites. Introduction to e-commerce terminology and software. This course is for the content person to produce effective, database-driven Web sites to start an on-line business.

CAOS 115Q E-Commerce Software II (Dreamweaver UltraDev - CS3) 2 Units

(Students may receive credit for either Computer Applications and Office Systems 115A (or 115I and 115Q).)

Prerequisite: Computer Applications and Office Systems 115I.

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic and intermediate principles of using e-commerce software to create effective Web sites. Introduction to e-commerce terminology and software. This course is for the content person to produce effective, database-driven Web sites to start an on-line business.

CAOS 116A Web Development Graphics Software (Illustrator) 4 Units

(Students may receive credit for either Computer Applications and Office Systems 116A (or 116I and 116Q); or Arts 116A (or 116I and 116Q); or CAD and Digital Imaging 116A.)

Prerequisite: Computer Applications and Office Systems 112A (or 112I and 112Q); or Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Arts 116A and CAD and Digital Imaging 116A. Student may enroll in only one department for credit.)

Eight hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic and intermediate principles of using vector-based graphics software to produce graphics for Web sites. Introduction to vector-based graphics terminology and software. This course is for the content person to produce vector graphic images.

**CAOS 116I Web Development Graphics
Software I (Illustrator) 2 Units**

(Students may receive credit for either Computer Applications and Office Systems 116A (or 116I and 116Q); or Arts 116A (or 116I and 116Q); or CAD and Digital Imaging 116A.)

Prerequisite: Computer Applications and Office Systems 112A (or 112I and 112Q); or Arts 112A (or 112I and 112Q); or CAD and Digital Imaging 112A (or 112I and 112Q).

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Arts 116I. Student may enroll in either department, but not both, for credit.)

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic principles of using vector-based graphics software to produce graphics for Web sites. Introduction to vector-based graphics terminology and software. This course is for the content person to produce vector graphic images.

**CAOS 116Q Web Development Graphics
Software II (Illustrator) 2 Units**

(Students may receive credit for either Computer Applications and Office Systems 116A (or 116I and 116Q); or Arts 116A (or 116I and 116Q); or CAD and Digital Imaging 116A.)

Prerequisite: Computer Applications and Office Systems 116I or Arts 116I.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Arts 116Q. Student may enroll in either department, but not both, for credit.)

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Basic and intermediate principles of using vector-based graphics software to produce graphics for Web sites. Introduction to vector-based graphics terminology and software. This course is for the content person to produce vector graphic images.

**CAOS 117A Advanced Digital Imaging
Software (Photoshop) 3 Units**

Prerequisite: Computer Applications and Office Systems 112A, or Arts 112A, or CAD and Digital Imaging 112A.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 90GA.

(Also listed as Arts 117A and CAD and Digital Imaging 117A. Student may enroll in only one department for credit.)

Six hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Advanced principles and techniques of using digital imaging software to produce graphics for Web sites and printed media. Integration of digital imaging software with Web authoring software. This course is for the content person wishing to produce digital images for Web pages and print media.

**CAOS 118A Advanced Web Graphics/
Animation Software (Flash) 3 Units**

Prerequisite: Computer Applications and Office Systems 114A, or Arts 114A, or CAD and Digital Imaging 114A.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 90GA.

(Also listed as Arts 118A and CAD and Digital Imaging 118A. Student may enroll in only one department for credit.)

Six hours lecture-laboratory.

Pass-No Pass (P-NP) course.

An advanced Flash course that is projects and portfolio based and taught from a designer perspective. Students will be taught how to build a portfolio and animated multimedia presentation. Basic programming skills will be taught along with developing interactive Web-based multimedia presentations using ActionScripts, sound and graphics.

CAOS 124 Computer Virus and Threat Protection 1/2 Unit

Advisory: Computer Applications and Office Systems 90G or equivalent; English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

One half-hour lecture.

Pass-No Pass (P-NP) course.

Learn to stop viruses, hackers and Internet threats.

**CAOS 130K Introduction to Business
Graphics (PowerPoint 2000) 2 Units**

Prerequisite: Computer Applications and Office Systems 102K, 102L, 102M, or 102T.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or

English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Introduction to presentation software using Microsoft PowerPoint. Course provides hands-on experience to produce text, graphic, chart and graph images for professional presentations.

**CAOS 130L Introduction to Business
Graphics (PowerPoint XP/2002) 2 Units**

Prerequisite: Computer Applications and Office Systems 102K, 102L, 102M, or 102T.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or

English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Introduction to presentation software using Microsoft PowerPoint. Course provides hands-on experience to produce text, graphic, chart and graph images for professional presentations.

**CAOS 130M Introduction to Business
Graphics (PowerPoint 2007) 2 Units**

Prerequisite: Computer Applications and Office Systems 102K, 102L, 102M, or 102T.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or

English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Introduction to presentation software using Microsoft PowerPoint. Course provides hands-on experience to produce text, graphic, chart and graph images for professional presentations.

CAOS 131 Quick Presentation 1/2 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; and Computer Applications and Office Systems 102K, 102L, 102M or 102T.

One hour lecture-laboratory.

Pass-No Pass (P-NP) course.

Project based course taught from a perspective of quickly developing skills necessary to create a multimedia presentation that includes text and graphics. The learning and instructional emphasis will be "hands-on-training" to develop a multimedia presentation.

CAOS 135 Foreclosure Technology Tools 1/2 Unit

(Also listed as Real Estate 135. Student may enroll in either department, but not both, for credit.)

One half-hour lecture.

Learn the basic principles to purchase foreclosed and short sale real estate properties using essential technology tools. Course explores three stages of foreclosures including pre-foreclosure, auction, and bank owned (REO) properties. Explore essential tips that home buyers, investors and real estate agents must consider before purchasing distressed properties. (DRE approved for 6 hours CE Consumer Protection credit. A 70% or better required on the final exam.)

**CAOS 150A Desktop Hardware
(A+ Certification Part I) 3 Units**

Prerequisite: Computer Applications and Office Systems 90GA or 100G (may be taken concurrently), or equivalent.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or

English as a Second Language 261, 262 and 263.

Three hours lecture.

Pass-No Pass (P-NP) course.

Provides service technicians and network administrators the necessary skills to identify, install, configure, and upgrade desktop computers and peripheral hardware. Course also helps students prepare to pass the compTIA A+ Technician Certification Exams.

CAOS 161 Computer Forensics 4 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 150A or equivalent; Computer Applications and Office Systems 102L or equivalent.

(Also listed as Administration of Justice 161 and Computer Information Systems 161. Student may enroll in only one department for credit.)

Three hours lecture, two hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Introduction to computer crime investigation processes. Guides students to becoming computer forensics investigators who can acquire and analyze data from a computer to be used as evidence. Topics include computer forensics tools, data recovery and retrieval, information gathering techniques, computer data preservation techniques, and computer crime investigation techniques. System Administrators, IT Managers, and Law Enforcement Officers, would benefit from taking this course as well as individuals wanting to become Computer Forensics Consultants.

CAOS 165 Security+ (Network Security Fundamentals) 4 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 108 or Computer Information Systems 108.

(Also listed as Computer Information Systems 165. Student may enroll in either department, but not both, for credit.)

Three hours lecture, three hours laboratory.

Maps to objectives of CompTIA's Security + certification exams. Covers authentication methods along with common network attacks and how to safeguard against them. Explores remote access, e-mail, the Web, directory and file transfer, and wireless data, network devices and media, DMZs, Extranets, and Intranet security. Cryptography including asymmetric and symmetric algorithms, and PKI certificates. Physical security includes disaster recovery, and business continuity.

CAOS 170E Windows Vista Enterprise 4 1/2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 102L.

(Also listed as Computer Information Systems 170E. Student may enroll in either department, but not both, for credit.)

Four hours lecture, one and one-half hours laboratory.

Provides knowledge and skills to setup, configure, use, and support Windows Vista software Enterprise. Course covers Windows Vista features including installing, upgrading, configuring and troubleshooting. Learn how to configure Windows Security, Network Connectivity and subsystems. Additional topics include configuring/troubleshooting mobile computing and learning how to use Vista's built-in Applications. Course targets objectives of the Microsoft Certified Professional Program.

CAOS 170F Windows 7 Administration 4 1/2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 102M.

(Also listed as Computer Information Systems 170F. Student may enroll in either department, but not both, for credit.)

Four hours lecture, one and one-half hours laboratory.

Provides knowledge and skills to setup, configure, use, and support Windows 7 operating system. Course covers Windows 7 features including installing, upgrading, configuring and troubleshooting. Learn how to configure Windows security, network connectivity and subsystems. Additional topics include configuring/troubleshooting mobile computing and learning how to use Windows 7's built-in applications.

CAOS 173 Keyboarding Skill Development 1 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 70AA.

Two hours lecture-laboratory.

(May be taken up to three times for credit.)

Pass-No Pass (P-NP) course.

Speed and accuracy development in keyboarding skills.

CAOS 176 Telephone Communications 1 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Two hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Techniques for handling incoming and outgoing phone calls, listening skills and customer relations.

CAOS 180G Job Finding Techniques 1 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 70AA.

Two hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Techniques of finding a job including resume, cover letter, and reference letter generation. Course includes interview, lead generation and networking techniques.

CAOS 180J Spelling Skills 1 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Two hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Techniques used in spelling.

CAOS 198 Topics in Computer Applications and Office Systems 1/2 Unit**CAOS 198W 1 Unit****CAOS 198X 1 1/2 Units****CAOS 198Y 2 Units**

Prerequisite: Computer Applications and Office Systems 90G, 100G, 102K or 102T.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Any combination of Computer Applications and Office Systems 198, 198W, 198X and 198Y may be taken up to six times for credit as long as the topics are different each time.)

Pass-No Pass (P-NP) course.

Two hours lecture-laboratory for each unit of credit.

Introduction to selected Computer Application and Office Systems programs.

CAOS 199W Topics in Computer Applications and Office Systems 1 Unit

Prerequisite: Computer Applications and Office Systems 90G, 100G, 102K or 102T.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Computer Applications and Office Systems 199W may be taken up to six times as long as the topics are different each time.)

Pass-No Pass (P-NP) course.

One hour lecture.

Introduction to selected Computer Applications and Office Systems programs.

Computer Information Systems

CIS 2 Computers and the Internet in Society 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

A critical examination of the capabilities and uses of the Internet, computers and cellular communications, and how they are changing business, law, politics, health, education, entertainment, and society.

CIS 3 Business Information Systems 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture, one and one-half hours laboratory.

Introduction to management information systems, systems design and development, data communications, data management, office automation, computer hardware and software concepts. Use of common software packages for business applications including word processing, spreadsheets, database, and Internet web tools.

CIS 14A Visual Basic .NET Programming I 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture, one and one-half hours laboratory.

Programming in Visual Basic. Emphasis on Windows programming using the Visual Basic environment. The development of well-structured VB projects using forms, buttons, labels, picture boxes, and text boxes.

CIS 14B Visual Basic .NET Programming II 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Computer Information Systems 14A or equivalent.

Four hours lecture, one and one-half hours laboratory.

Develop professional looking and deployable visual basic applications using advanced controls, user-created classes, incorporating databases with ADO.NET 3.5, calling APIs, and creating Web applications.

CIS 14C Visual Basic .NET Programming III 4 1/2 Units

Prerequisite: Computer Information Systems 14B.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Computer Information Systems 89A.

Four hours lecture, one and one-half hours laboratory.

Develop professional looking and deployable visual basic applications using advanced .NET concepts. Build and access databases using ADO Net Objects. Develop Web Services, forms with an introduction to XML, ASP.NET. Introduce Networking with sockets using VB.NET.

CIS 15AG Introduction to Computer Programming Using C 4 1/2 Units

(Students may receive credit for either Computer Information Systems 15AG and 15BG, or 26A.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 114 or equivalent; Computer Information Systems 50; Computer Applications and Office Systems 70AA.

Four hours lecture, one and one-half hours laboratory.

Problem solving, algorithms and structured program design. Programming, testing and debugging of well-structured programs in C. Introduction to data types, expressions, control structures, functions, sequential files, and one-dimensional arrays.

CIS 15BG Intermediate Problem Solving in C 4 1/2 Units

(Students may receive credit for either Computer Information Systems 15AG and 15BG, or Computer Information Systems 26A, but not both.)

Prerequisite: Computer Information Systems 15AG.

Four hours lecture, one and one-half hours laboratory.

A systematic approach to the design, construction and management of computer programs, emphasizing design, programming style, documentation, testing and debugging techniques. Strings, multidimensional arrays and structures. Pointers: their use in arrays, parameters and dynamic allocation. Introduction to linked lists.

CIS 15C Data Structures 4 1/2 Units

Prerequisite: Computer Information Systems 15BG or 26A.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.

Four hours lecture, one and one-half hours laboratory.

Stacks, queues, linked lists, trees, heaps, and graphs; internal and external sorting; use of recursion; hashing; structured programming; and abstract data type concepts; team project.

CIS 18A Introduction to UNIX/LINUX 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Computer Information Systems 10.

Four hours lecture, one and one-half hours laboratory.

Introduction to the features of the UNIX/LINUX operating system including text editing, text file manipulation, electronic mail, Internet utilities, directory structures, input/output handling, and shell features.

CIS 18B Advanced UNIX/LINUX 4 1/2 Units

Prerequisite: Computer Information Systems 14A or 15AG; and Computer Information Systems 18A.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture, one and one-half hours laboratory.

Coverage of regular expressions, grep, sed, and awk utilities.

CIS 18C Shell Programming 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; any introductory programming course and Computer Information Systems 18B.

Four hours lecture, one and one-half hours laboratory.

Programming in bash shell, Bourne shell, Korn shell, and C shell.

CIS 21JA Introduction to 8086/IA 32 Processor Assembly Language 4 1/2 Units

Prerequisite: Computer Information Systems 15BG or 26A.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent.

Four hours lecture, one and one-half hours laboratory.

Introduction to the syntax and semantics of 8086 and IA32 assembly language, standard instruction set, selected pseudo and macro instructions, arrays, 8086/286/386/486/Pentium features.

CIS 21JB Advanced Programming: Series 86 and IA32/Pentium Assembly Language 4 1/2 Units

Prerequisite: Computer Information Systems 21JA.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent.

Four hours lecture, one and one-half hours laboratory.

Coverage of theory and application of advanced programming techniques, with emphasis on combining multiple modules in a single program, inter-program connection, interrupt level programming and macro writing, recursive and re-entrant techniques.

CIS 26A C as a Second Programming Language 4 1/2 Units

(This course is intended for students who are competent in another programming language. Students may receive credit for either Computer Information Systems 15AG and 15BG, or Computer Information Systems 26A, but not both.)

Prerequisite: An Introductory Programming Language course such as Computer Information Systems 14A.

Four hours lecture, one and one-half hours laboratory.

An introduction to the C programming language and its applications. Topics covered include: basic input/output, structured program design and implementation, basic control structures and keywords, arrays and pointers, character and string manipulation, arithmetic expressions, and functions and program modularization.

CIS 26B Advanced C Programming 4 1/2 Units

Prerequisite: Computer Information Systems 15BG or 26A.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Mathematics 212 or equivalent.

Four hours lecture, one and one-half hours laboratory.

Applications of advanced features of C and the C-library functions including: binary and random-access input/output, dynamic data structures, bit manipulation, string parsing and string-to-numeric conversion, event and error processing, function pointers, recursion, and variable-length argument list functions.

CIS 27 Programming in C++ for C Programmers 4 1/2 Units

Prerequisite: Computer Information Systems 15BG or 26A.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture, one and one-half hours laboratory.

A comprehensive introduction to the C++ programming language and its applications.

CIS 28 Object Oriented Analysis and Design 4 1/2 Units

Prerequisite: Computer Information Systems 27 or 35A or equivalent experience.

Four hours lecture, one and one-half hours laboratory.

Defines and illustrates the object oriented paradigm for analyzing, designing and implementing object oriented computer applications. Trade-offs between various object oriented techniques will be illustrated with a series of real world applications to allow the student to optimize his/her solutions for robustness and reuse.

CIS 29 Advanced C++ Programming 4 1/2 Units

(Formerly Computer Information Systems 52G.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Computer Information Systems 27.

Four hours lecture, one and one-half hours laboratory.

Advanced topics in C++ including: namespace, string and stringstream classes, cast operators, multiple inheritance, exception handling, compilation concepts, libraries, templates, the Standard Template Library and programming style.

CIS 30A Introduction to C# Programming 4 1/2 Units

(Formerly Computer Information Systems 65A.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture, one and one-half hours laboratory.

Introduction to C# programming, .Net Environment, computing context, primitive types, flow of control constructs, operators, text I/O, objects and classes, interfaces, packages, GUI, exceptions, and threads.

CIS 30B Advanced C# Programming 4 1/2 Units

(Formerly Computer Information Systems 65B.)

Prerequisite: Computer Information Systems 30A.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture, one and one-half hours laboratory.

Emphasis on foundation technologies in C# that enable you to write server side programs in C#. Concepts include inner classes, collections, exceptions, file I/O, reflections, cloning, and multi-threading.

CIS 31 Operating System Concepts 5 Units

Advisory: Computer Information Systems 15BG and 21JA.

Five hours lecture.

Concepts and use of operating systems: multiprogramming and multiprocessing systems; processes and threads, mutual exclusion, indefinite postponement, deadlocks; scheduling considerations and security management.

CIS 33A Programming in PERL 4 1/2 Units

Prerequisite: Computer Information Systems 18A; and Computer Information Systems 15BG or 26A.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture, one and one-half hours laboratory.

A complete coverage of the core PERL language. Topics covered will include: basic loops and control structures, the elemental data types and operators, subroutines and variable scoping, regular expressions and text parsing, manipulation of files and directories, advanced list processing with grep and map, references, built-in functions and core modules, and advanced input/output including random-access files and formatting.

CIS 33B Advanced PERL Programming 4 1/2 Units

Prerequisite: Computer Information Systems 15BG; or Computer Information Systems 26A and 33A.

Four hours lecture, one and one-half hours laboratory.

Exploration of advanced topics from the core PERL distribution and essential non-core modules. Topics include reference-based data structures, object-oriented programming, connecting to SQL-based relational databases, non-relational database and file structures, process creation and management, and TCP/IP Client/Server programming.

CIS 35A Introduction to Java Programming 4 1/2 Units

Prerequisite: Computer Information Systems 15BG or 26A.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture, one and one-half hours laboratory.

Introduction to JAVA programming, computing context, primitive types, flow of control constructs, operators, text I/O, objects and classes, interfaces, packages, GUI and exceptions.

CIS 35B Advanced Java Programming 4 1/2 Units

Prerequisite: Computer Information Systems 35A.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture, one and one-half hours laboratory.

Emphasis on foundation technologies in Java that enable you to write server side programs in Java. Concepts include inner classes, collections, exceptions, file I/O, reflections, cloning, swing, multi-threading and JavaBeans.

CIS 50 Introduction to Computers, Data Processing, and Applications 3 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture.

Computer information systems (IS) basic terms and concepts. Important IS trends. Using systems development to build information systems. Survey of functions and components of an information system including applications software, systems software, telecommunications, networks, the Internet and Web. Social and organization issues.

CIS 53 Distributed Processing Using Java 4 1/2 Units

Prerequisite: Computer Information Systems 35B.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture, one and one-half hours laboratory.

Distributed computing using Java features including: JDBC, Java Servlets, Java Server Pages, RMI, Enterprise JavaBeans, Java Transaction Services, XML and Java, Introduction to Web Services.

CIS 57 Web Site Administration 4 1/2 Units

Prerequisite: Computer Information Systems 66 and 89A.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture, one and one-half hours laboratory.

Introduction to establishing, configuring, managing and controlling access to Internet servers.

CIS 61A Introduction to Computer Programming Using Java 4 1/2 Units

(Students may receive credit for either Computer Information Systems 61A and 61B, or Computer Information Systems 35A.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 114 or equivalent.

Four hours lecture, one and one-half hours laboratory.

Problem solving, algorithms, and program design. Programming, testing and debugging of programs in Java. Introduction to expressions, control structures, methods, classes, strings, and arrays.

CIS 61B Intermediate Problem Solving in Java 4 1/2 Units

(Students may receive credit for either Computer Information Systems 61A and 61B, or Computer Information Systems 35A.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Computer Information Systems 61A.

Four hours lecture, one and one-half hours laboratory.

A systematic approach to the design, construction and management of computer programs, emphasizing design, programming style, documentation, testing and debugging techniques.

CIS 63 Systems Design 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture, one and one-half hours laboratory.

Current tools of structured systems analysis and design: data flow diagrams, structure charts, HIPO charts, VTOCs, data structure/dictionaries, decision trees and tables, pseudo code.

CIS 64A Data Base Management Systems 4 1/2 Units

Prerequisite: Computer Information Systems 15BG.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture, one and one-half hours laboratory.

Rudiments of data base design, implementation and use. Basic understanding of various data modeling techniques. Overview and comparison of data base management systems. Emphasis on relational data bases; introduction to SQL.

CIS 64B Introduction to SQL 4 1/2 Units

Prerequisite: Computer Information Systems 64A.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture, one and one-half hours laboratory.

Introduction to Oracle SQL (Structured Query Language), DML (Data Manipulation Language) processing techniques, DDL (Data Definition Language) techniques, selecting and sorting data, joins, SQL functions, Oracle objects, Oracle data processing concepts to maintain large database systems.

CIS 64C Introduction to PL/SQL 4 1/2 Units

Prerequisite: Computer Information Systems 64B.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture, one and one-half hours laboratory.

Oracle PL/SQL features cover data definition and data manipulation using expressions, control structures, and Oracle objects. Error handling, predefined packages, triggers, transactions and advanced PL/SQL features.

CIS 64D Database Tuning 3 Units

Prerequisite: Computer Information Systems 64C.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture.

Emphasis on importance of Performance Tuning, techniques for tuning several Oracle components, optimizing database for high volume transactions and Data Warehouses.

CIS 66 Introduction to Data Communication and Networking 5 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Computer Information Systems 3 or 50.

Five hours lecture.

Concepts of communication, data communications and networks. Overview of connectivity options, common protocols, local and wide area networks.

CIS 67A Local Area Networks 4 Units

Advisory: Computer Information Systems 66.

Four hours lecture.

Fundamental concepts of Local Area Network architecture and protocols. Emphasis on basic concepts needed to design, configure, and implement Local Area Networks. Emphasis on the evolution of Traditional Ethernet, Fast Ethernet, Gigabit Ethernet, Ten-Gigabit, Ethernet, ATM, and wireless LANs.

CIS 67B Introduction to Wide Area Networking 4 Units

Advisory: Computer Information Systems 67A.

Four hours lecture.

Fundamental concepts of telephony, telecommunication, and wide area networking. Emphasis on analog and digital transmission techniques. Emphasis on circuit-switching and packet-switching. Exploration of optimization in telecommunication.

CIS 73 UNIX/LINUX Systems Programming 5 Units

Prerequisite: Computer Information Systems 18A and 26B.

Four hours lecture, three hours laboratory.

Coverage of systems programming in the UNIX/LINUX/Posix environments, with emphasis on low-level UNIX/LINUX/Posix system calls from C programs and Shell scripts. Discussion of differences in major UNIX/LINUX/Posix environments.

CIS 74	Computer Software Quality Assurance	4 1/2 Units	
<i>Advisory: Computer Information Systems 50.</i> <i>Four hours lecture, one and one-half hours laboratory.</i> Analysis of types of software; software development life cycle; top down design and structured programming; modularization; standards and practices; software configuration management; software testing; documentation; software error types, causes; software quality assurance plans and procedures; software discrepancy reports, analysis; software visibility for managers.			
CIS 75A	Internet Concepts and TCP/IP Protocols	5 Units	
<i>Prerequisite: Computer Information Systems 66.</i> <i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Computer Information Systems 67B and 26A, or Computer Information Systems 15AG.</i> <i>Five hours lecture.</i> The architecture and underlying protocols of the Internet. The Internet will be examined as a layered product. Layers discussed will include mid-level packet delivery and address computation and high-level client/server applications using the TCP/IP Protocol Suite.			
CIS 75B	Internet Programming With TCP/IP	4 1/2 Units	
<i>Prerequisite: Computer Information Systems 26B and 75A.</i> <i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>Four hours lecture, one and one-half hours laboratory.</i> Writing client/server applications using the TCP/IP protocol suite. All server classes - "well known", iterative, concurrent, and polling - will be explored and used. Typical Internet programming problems will be addressed including resource availability, machine addressing, and differences in data representation between communicating computers.			
CIS 75C	Enterprise Security Threats Management	4 1/2 Units	
<i>Prerequisite: Computer Information Systems 75A or equivalent experience.</i> <i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>Four hours lecture, one and one-half hours laboratory.</i> Learn how to apply Enterprise Security Concepts to monitor security threats, outages and analyze such results. Learn to predict hacker's mindset and respond to hacker attack. Raise awareness in your workplace about Security policy and procedures. System Administrators, IT Managers and Analysts would benefit from this course as well as technologists wanting to broaden their impact.			
CIS 75D	Enterprise Security Policy Management	3 Units	
<i>Prerequisite: Computer Information Systems 75A or equivalent experience.</i> <i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>Two hours lecture, three hours laboratory.</i> Learn how to secure your enterprise network by creating a security policy and create procedures to maintain security policy. Learn to perform risk analysis and assessment on enterprise security. System Administrators, IT Managers and Analysts would benefit from this course as well as technologists wanting to broaden their impact.			
CIS 75E	Enterprise Emergency Response Planning	2 Units	
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>Two hours lecture.</i> Learn how to plan for emergency response, recover from a disaster and how to mitigate risks. System Administrators, IT managers and Analysts would benefit from this course as well as technologists wanting to broaden their impact.			
CIS 76	Introduction to Network Security	4 Units	
<i>Prerequisite: Computer Information Systems 75A.</i> <i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.</i> <i>Four hours lecture.</i> Network security using the standard protocols and algorithms. All three goals of security including confidentiality, integrity, and availability will be discussed. Attacks on security including active and passive are discussed and elaborated on. Two major techniques of security, cryptography and steganography, are described with emphasis on cryptography. The emphasis is on mechanisms and services provided by the network security.			
CIS 77	Special Projects in Computer Information Systems	1 Unit	
CIS 77X		2 Units	
CIS 77Y		3 Units	
<i>(Formerly Computer Information Systems 96, 96X and 96Y respectively.)</i> <i>Prerequisite: Other De Anza College Computer Information Systems courses in which computer programming is learned and consent of the Computer Information Systems Department. Approved Special Projects Contract required.</i> <i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>Three hours laboratory for each unit of credit. (Hours to be individually arranged.)</i> <i>(Any combination of Computer Information Systems 77, 77X and 77Y may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)</i> Design, implement, and document a special computer project.			
CIS 79	Managing Technology Projects	4 1/2 Units	
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>(Also listed as Business 88. Student may enroll in either department, but not both, for credit.)</i> <i>Four hours lecture, one and one-half hours laboratory.</i> Introduction to the theory and practice of the design and management of technology projects, including planning, performing, and monitoring of projects. Subjects explored are estimating costs and schedules, analyzing client expectations, guiding diverse groups of people toward a common goal, while earning a profit. Use of common software packages for project management.			
CIS 80A	Process Management	3 Units	
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>Three hours lecture.</i> Learn the basics of process mapping in examining work flow and relationships to improve the efficiency of an organization, improve communication and understanding, and find ways to optimize a process.			
CIS 86	Computer Accounting Systems	5 Units	
<i>Prerequisite: Accounting 1A.</i> <i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>(Also listed as Accounting 86. Student may enroll in either department but not both, for credit.)</i> <i>Five hours lecture.</i> Fundamentals of computerized accounting using integrated general ledger software packages and electronic spreadsheet software. Conversion of a manual system to a computer system.			
CIS 89A	Web Page Development	3 Units	
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Computer Information Systems 18A.</i> <i>Two hours lecture, three hours laboratory.</i> Fundamentals of Web page design and creation: designing, encoding, and maintaining pages on the World Wide Web using HTML/XHTML.			
CIS 89C	Client-Side Programming with JavaScript	4 1/2 Units	
<i>Advisory: Computer Information Systems 89A, and Computer Information Systems 14A or 15G.</i> <i>Four hours lecture, one and one-half hours laboratory.</i> Fundamentals of client-side programming for Web pages requiring data collection or other user interaction. Students will create Web pages that execute on the client (personal system) using JavaScript.			
CIS 94	Introduction to the Internet and World Wide Web	1 Unit	
<i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i> <i>(Also listed as Computer Applications and Office Systems 94. Student may enroll in either department, but not both, for credit.)</i> <i>Two hours lecture-laboratory.</i> <i>Pass-No Pass (P-NP) course.</i> Introduction to using the Internet. Topics include an overview of the World Wide Web, e-mail, news groups, bulletin boards, World Wide Web browsers, basic Web page elements and exploration of virtual communities.			
CIS 95A	Project Management - A Practicum	5 Units	
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>Five hours lecture.</i> Focus on your role as a Project Manager; selecting a project; selecting a team; documentation and tracking of a project using Project Manager Book of Knowledge (PMBOK) Theory.			

CIS 95B Project Planning and Control - A Practicum 4 Units

Prerequisite: Computer Information Systems 95A or equivalent experience.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Create a project scope statement that will act as a basis for creating a project plan. Build a project plan that integrates time, resources and communication with cost and quality of work. Plan controls to proactively mitigate risks.

CIS 95C Risk Assessment and Mitigation - A Practicum 4 Units

Prerequisite: Computer Information Systems 95B or equivalent experience.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Focus on responding to uncertain events or conditions for a positive or negative effect on project objectives. Implement techniques for planning for risks and learn to change project plans to reduce the probability and/or impact of the risk.

CIS 95D Managing Outsourcing - A Practicum 3 Units

Prerequisite: Computer Information Systems 95C or equivalent experience.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture.

Learn to acquire goods and services from an outer organization using procurement and solicitation processes. Perform contract administration till completion and settlement of contract.

CIS 95E CAPM and PMP Exam Preparation 4 Units

Prerequisite: Computer Information Systems 95A or equivalent experience.

Four hours lecture.

Prepares the student for attempting the Project Management Professional (PMP) or Certified Associate in Project Management (CAPM) examination provided by Project Management Institute (PMI). Topics include management of integration, scope, time, cost, quality, human resources, communications, risk and procurement.

CIS 98U Internship, Business/Computer Systems Division 1 Unit

CIS 98V 2 Units

CIS 98W 3 Units

CIS 98X 4 Units

CIS 98Y 5 Units

CIS 98Z 6 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Accounting 98U-Z, Business 98U-Z, and Computer Applications and Office Systems 98U-Z. Student may enroll in only one department for credit.)

Four hours laboratory per unit of supervised internship in an authorized office or agency.

(Any combination of Accounting 98U-Z, Business 98U-Z, Computer Applications and Office Systems 98U-Z, and Computer Information Systems 98U-Z may be taken up to six times, not to exceed 18 units, for credit. During each internship, students will be placed at different employer locations, different working environments, and/or given different assignments within the same company or department--thus providing the students with various opportunities to learn different skills. Students may repeat the same internship location and working environment if the student, employer, and instructor believe it would provide the student with increased work experience.)

Off-campus supervised experiential education/internship for Business/Computer Systems Division students in research or business office environments related to student's major. Practical application of knowledge, skills and abilities acquired in student's major. Opportunity for additional hands-on training. Exposure to varied corporate, state and federal protocols, methodologies and practices in a professional environment.

CIS 108 Personal Computer Security Basics 4 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or

English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 90GA or equivalent.

(Also listed as Computer Applications and Office Systems 108. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Beginner's computer security course for small office or home users. Learn to stop hackers, worms, viruses, spyware, Web bugs and identity theft. Learn vulnerabilities found in Web browsers, e-mail and operating systems. Protect against online purchase dangers, install firewalls, manage cookies, restrict ports, analyze log files, evaluate wireless networks and examine encryption.

CIS 140A Automated Web Page Testing with Selenium IDE 2 Units

Prerequisite: Computer Information Systems 89A.

Corequisite: Computer Information Systems 140A students must also enroll in Computer Information Systems 89C.

Advisory: Computer Information Systems 74.

One hour lecture, three hours laboratory.

An introduction to the open-source Selenium Integrated Development Environment (SIDE) used for automating the testing of web pages. Topics covered will include: download and installation; user forums; record/replay; use of globbing and regular expressions within patterns; use of XPath and DOM expressions to locate page elements; test suite creation; the Selenium command set; the use of JavaScript snippets as arguments to Selenium commands; and the use of JavaScript within user extensions.

CIS 161 Computer Forensics 4 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or

English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 150A or equivalent; Computer Applications and Office Systems 102L or equivalent.

(Also listed as Administration of Justice 161 and Computer Applications and Office Systems 161. Student may enroll in only one department for credit.)

Three hours lecture, two hours lecture-laboratory.

Pass-No Pass (P-NP) course.

Introduction to computer crime investigation processes. Guides students to becoming computer forensics investigators who can acquire and analyze data from a computer to be used as evidence. Topics include computer forensics tools, data recovery and retrieval, information gathering techniques, computer data preservation techniques, and computer crime investigation techniques. System Administrators, IT Managers, and Law Enforcement Officers, would benefit from taking this course as well as individuals wanting to become Computer Forensics Consultants.

CIS 165 Security+ (Network Security Fundamentals) 4 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or

English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 108 or Computer Information Systems 108.

(Also listed as Computer Applications and Office Systems 165. Student may enroll in either department, but not both, for credit.)

Three hours lecture, three hours laboratory.

Maps to objectives of CompTIA's Security + certification exams. Covers authentication methods along with common network attacks and how to safeguard against them. Explores remote access, e-mail, the Web, directory and file transfer, and wireless data, network devices and media, DMZs, Extranets, and Intranet security. Cryptography including asymmetric and symmetric algorithms, and PKI certificates. Physical security includes disaster recovery, and business continuity.

CIS 170E Windows Vista Enterprise 4 1/2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or

English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 102L.

(Also listed as Computer Applications and Office Systems 170E. Student may enroll in either department, but not both, for credit.)

Four hours lecture, one and one-half hours laboratory.

Provides knowledge and skills to setup, configure, use, and support Windows Vista software Enterprise. Course covers Windows Vista features including installing, upgrading, configuring and troubleshooting. Learn how to configure Windows Security, Network Connectivity and subsystems. Additional topics include configuring/troubleshooting mobile computing and learning how to use Vista's built-in Applications. Course targets objectives of the Microsoft Certified Professional Program.

CIS 170F Windows 7 Administration 4 1/2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or

English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 102M.

(Also listed as Computer Applications and Office Systems 170F. Student may enroll in either department, but not both, for credit.)

Four hours lecture, one and one-half hours laboratory.

Provides knowledge and skills to setup, configure, use, and support Windows 7 operating system. Course covers Windows 7 features including installing, upgrading, configuring and troubleshooting. Learn how to configure Windows security, network connectivity and subsystems. Additional topics include configuring/troubleshooting mobile computing and learning how to use Windows 7's built-in applications.

CIS 198 Install and Configure Windows Vista 1 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or

English as a Second Language 261, 262 and 263; Computer Applications and Office Systems 102L.

One hour lecture.

Provides knowledge and skills to setup, configure, use and troubleshoot Windows Vista software and security features.

CIS 200W	Topics in Computer Information Systems	1 Unit
CIS 200X		2 Units
CIS 200Y		3 Units
CIS 200Z		4 Units

Credit course - Does not apply to De Anza Associate degree.

One hour lecture for each unit of credit.

(Any combination of Computer Information Systems 200W, 200X, 200Y and 200Z may be taken for up to six times, not to exceed 18 units, as long as the topics are different each time.)

A planned program of exposure to fundamental concepts and applications of selected Computer Information Systems topics. Concepts and theories as applied to the specific topic.

COOP Ed Work Experience

COOP 51	Occupational Work Experience	1 Unit
COOP 51W		2 Units
COOP 51X		3 Units
COOP 51Y		4 Units

Prerequisite: Must be working in a job related to declared occupational program/educational goal.

Fifty hours of paid employment per quarter for each unit of credit (4.17 hours of paid employment per week, per unit).

(May be taken until 24 units of Cooperative Education have been earned and in combination with all other Cooperative Education courses.)

Assess career/life development and work activities by introduction to the concept of career paths with occupational choices, and awareness of cultural/global diversity and generational differences in the work environment. Learn the S.M.A.R.T. principle for writing learning/performance and write a set of learning/performance objectives agreed upon by the student and employer that will be carried out during the quarter. View objectives in terms of a planned series of experiences for career/academic development. Participation in COOP will facilitate the career and academic development and decision-making process. Consultation with individually assigned faculty member.

COOP 53	Occupational Volunteer Community Service Learning Internship	1 Unit
COOP 53W		2 Units

Prerequisite: Must be volunteering in a service-learning agency related to declared occupational program/educational goal; college recognized occupational program goal.

Forty hours of unpaid volunteer hours for each unit of credit earned per quarter; volunteering in a nonprofit, service-learning organization (3.33 hours of unpaid volunteer internship per quarter for each unit of credit).

(May be taken until 24 units of Cooperative Education have been earned and in combination with all other Cooperative Education courses.)

individually planned and supervised learning experiences related to occupational goals and designed to help meet human needs in the community. Desirable work habits, attitudes, skills, knowledge, career awareness, and exposure to cultural and generational diversity. Experience setting and achieving on-the-job learning/performance objectives related to occupational goals and appropriate to the service learning internship. Consultations with individually assigned faculty member.

COOP 71	General Work Experience	1 Unit
COOP 71W		2 Units
COOP 71X		3 Units
COOP 71Y		4 Units

Prerequisite: Must be employed.

Fifty hours of paid employment per quarter for each unit of credit (4.17 hours of paid employment per week, per unit).

(May be taken until nine units of this course have been earned, within a maximum of 24 total units in all Cooperative Education courses.)

Transferable skills gained under actual working conditions. Develop an understanding, appreciation and respect for work, peers, and an awareness of cultural/global diversity and generational differences in the work environment. Through holding a job, fulfilling work-related assignments and participating in on-campus activities, students are assisted in the process of developing a concept of self, understanding roles in the work environment and setting realistic goals. An assigned faculty coordinator helps students focus on job skills for transition into a career. Consultations with individually assigned faculty members.

COOP 73	General Volunteer Community Service Learning Internship	1 Unit
COOP 73W		2 Units

Prerequisite: Volunteer in an service learning (nonprofit) agency.

Forty hours of unpaid volunteer hours for one unit of credit earned per quarter; volunteering in a non-profit, service-learning organization (3.33 hours of unpaid volunteer internship per quarter for each unit of credit).

(May be taken until nine units have been earned in this, within a maximum of 24 units in all Cooperative Education courses.)

Volunteer in an approved community agency with individually planned and supervised learning experiences that are designed to help meet human needs in the community. Desirable work habits, attitudes, skills, career awareness, and exposure to cultural and generational diversity. Experience in setting and achieving learning/performance objectives appropriate to the service learning internship. Consultations with individually assigned faculty member.

Counseling

COUN 80W	Special Topics in Counseling	1/2 Unit
COUN 80X		1 Unit
COUN 80Y		2 Units
COUN 80Z		3 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

One hour lecture for each unit of credit.

(Any combination of Counseling 80W, 80X, 80Y and 80Z may be taken up to six times, not to exceed 18 units, as long as the topics are different each time.)

Selected counseling topics with a focus on academic and personal development.

COUN 100	Orientation to College	1/2 Unit
COUN 100X		1 Unit

Credit course - Does not apply to De Anza Associate degree.

Two hours lecture-laboratory for each unit of credit.

Pass-No Pass (P-NP) course.

An orientation to De Anza College that includes programs, services, policies, degrees, certificates, transfer requirements, and college culture. Focus will be on strategies needed for academic success and the development of a two quarter Educational Plan.

Dance

DANC 22	Body Awareness and Conditioning for Dancers	1 Unit
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(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Physical Education 22. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 22 and Physical Education 22 may be taken up to six times for credit as long as the topics/projects are different each time.)

Principles of dance and practice of body awareness focusing on center, floor and barre work derived from ballet, contemporary dance, and other psycho-physical disciplines. Topics may include, but are not limited to, body alignment and centering, concentration and relaxation, development of the kinesthetic sense, and exploration of the body/mind connection.

DANC 22K	Theory and Technique of Ballet I	1 Unit
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(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Dance 22 or Physical Education 22.

(Also listed as Physical Education 22K. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 22K and 22L, and Physical Education 22K and 22L may be taken up to six times for credit for the family of courses.)

Introduction to the discipline and creative art of classical ballet, including the development of elementary movement techniques, a working ballet vocabulary, exposure to great works and artists from a global perspective, theory and practice of barre and center floor exercises.

De Anza College is
a smoke-free campus



DANC 22L Theory and Technique of Ballet II 2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Dance 22K or Physical Education 22K.

(Also listed as Physical Education 22L. Student may enroll in either department, but not both, for credit.)

Four hours lecture-laboratory.

(Any combination of Dance 22K and 22L, and Physical Education 22K and 22L may be taken up to six times for credit for the family of courses.)

Principles and practice of the discipline and creative art of classical ballet, combining: traditional techniques of Russian, French, and Italian schools; barre and center floor work emphasizing alignment/centering, motion through space, and the acquisition of an intermediate working ballet vocabulary.

DANC 23A Theory and Technique of Contemporary (Modern) Dance I 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Physical Education 23A. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 23A and 23B, and Physical Education 23A and 23B may be taken up to six times for credit for the family of courses.)

Introduction to the discipline and creative art of contemporary dance. Student will be exposed to a basic movement theory, technique and repertoire from global artists.

DANC 23B Theory and Technique of Contemporary (Modern) Dance II 2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Dance 23A or Physical Education 23A.

(Also listed as Physical Education 23B. Student may enroll in either department, but not both, for credit.)

Four hours lecture-laboratory.

(Any combination of Dance 23A and 23B, and Physical Education 23A and 23B may be taken up to six times for credit for the family of courses.)

The discipline and creative art of contemporary dance focusing on practice, theory, technique, and movement explorations in time and space, developing a working intermediate contemporary dance vocabulary.

DANC 23H Dance Composition 2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Physical Education 23H. Student may enroll in either department, but not both, for credit.)

Four hours lecture-laboratory.

(Any combination of Dance 23H and Physical Education 23H may be taken up to two times for credit.)

Introduction to the fundamental elements and techniques of individual and group dance composition.

DANC 23L Theory and Technique of Hip-Hop I (Popular American Dance) 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Physical Education 23L. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 23L and 23M, and Physical Education 23L and 23M may be taken up to six times for credit for the family of courses.)

An Introduction to the discipline of creative arts through hip-hop dance with an integrated fitness approach that focuses on developing the stabilization muscles of the center of the body. Concentration will be on muscles of the torso, back, hips, inner and outer thighs, chest and abdominals will be used in conjunction with breathing, posture, and muscle awareness. Exposure to great works and artists of the field. Development of a working hip-hop dance vocabulary. Theory and practice of basic technique.

DANC 23M Theory and Technique of Hip-Hop II (Popular American Dance II) 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Physical Education 23M. Student may enroll in either department, but not both for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 23L and 23M, and Physical Education 23L and 23M may be taken up to six times for credit for the family of courses.)

Explorations in the discipline of creative arts through the theory and practice of hip-hop dance intermediate/advanced level technique, with an integrated fitness approach that focuses on developing the stabilization muscles of the center of the body. Concentration will be on muscles of the torso, back, hips, inner and outer thighs, chest and abdominals will be used in conjunction with breathing, posture, and muscle awareness. Exposure to great works and multicultural artists of the field. Development of a working hip-hop vocabulary and performance skills.

DANC 24A Theory and Technique of Social Dance I 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Physical Education 24A. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 24A, 24B and 24C, and Physical Education 24A, 24B and 24C may be taken up to six times for credit for the family of courses.)

Introduction to the discipline and creative art of social dance. Exposure to basic forms of social dance in a ballroom context. Developing a working vocabulary of traditional social dance movements and an understanding of the cultural and historical contexts that produced the specific dance styles.

DANC 24B Theory and Technique of Social Dance II 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Physical Education 24B. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 24A, 24B and 24C, and Physical Education 24A, 24B and 24C may be taken up to six times for credit for the family of courses.)

Introduction to the discipline and creative art of social dance, part two. Exposure to the basic forms of social dance in a ballroom context. Developing a working vocabulary of traditional social dance movements and an understanding of the cultural and historical contexts that produced the specific dance.

DANC 24C Theory and Technique of Social Dance III 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Dance 24A or 24B, or Physical Education 24A or 24B.

(Also listed as Physical Education 24C. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 24A, 24B and 24C, and Physical Education 24A, 24B and 24C may be taken up to six times for credit for the family of courses.)

The art of social dance at the advanced level. Expanded exposure to the basic forms of social dance in a ballroom context. Developing a working vocabulary of traditional social dance movements and an understanding of the cultural and historical contexts that produced the specific dance styles.

DANC 25A Theory and Technique of Salsa Dance I 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Physical Education 25A. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 25A and Physical Education 25A may be taken up to three times for credit as long as the topics are different each time.)

Introduction to the discipline and creative art of salsa dance. Exposure to basic forms of social dance in a salsa dance context. Developing a working vocabulary of traditional salsa dance movements and an understanding of the cultural and historical contexts that produced the specific dance styles.

DANC 27A	Dance Workshop (Student Productions, the De Anza Dancers)	1 Unit	DANC 78L	Special Topics in Dance	1/2 Unit
DANC 27B		2 Units	DANC 78M		1 Unit
DANC 27C		3 Units	DANC 78N		2 Units
DANC 27D		4 Units	DANC 78P		3 Units
Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.			DANC 78Q		4 Units
Two hours lecture-laboratory for each unit of credit.			DANC 78R		5 Units
(Any combination of Dance 27A, 27B, 27C, and 27D may be taken up to three times for credit.)			DANC 78S		6 Units
An introduction to the basic techniques of dance production and performance.			DANC 78T		7 Units
DANC 37A	Theory and Technique of Jazz Dance I	1 Unit	DANC 78U		8 Units
(See general education pages for the requirement this course meets.)			(Formerly Dance 25L-U.)		
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.			Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; enrollment by audition only.		
(Also listed as Physical Education 37A. Student may enroll in either department, but not both, for credit.)			(Also listed as Physical Education 78L-U. Student may enroll in either department, but not both, for credit.)		
Two hours lecture-laboratory.			Two hours lecture-laboratory for each unit of credit.		
(Any combination of Dance 37A and 37B, and Physical Education 37A and 37B may be taken up to six times for credit as long as the topics are different each time.)			(Any combination of Dance 78L-U and Physical Education 78L-U may be taken up to six times for credit, not to exceed 18 units, as long as the topics are different each time.)		
Introduction to the discipline and creative art of jazz dance. Body conditioning, exposure to the history of major international influences, artists, and works. Development of a working vocabulary; and practice of basic techniques.			Projects for groups in special areas of interest relative to but outside of the departmental curriculum.		
DANC 37B	Theory and Technique of Jazz Dance II	2 Units	DANC 79A	Individual Study in Dance	1 Unit
(See general education pages for the requirement this course meets.)			DANC 79B		2 Units
Prerequisite: Dance 37A or Physical Education 37A.			DANC 79C		3 Units
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.			DANC 79D		4 Units
(Also listed as Physical Education 37B. Student may enroll in either department, but not both, for credit.)			(Formerly Dance 26A, 26B, 26C and 26D respectively.)		
Four hours lecture-laboratory.			Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; submission of Special Projects Contract.		
(Any combination of Dance 37A and 37B, and Physical Education 37A and 37B may be taken up to six times for credit as long as the topics are different each time.)			Three hours laboratory for each unit of credit.		
Exploring elements of time, space, shape and motion as related to jazz dance. Body conditioning, exposure to major international influences, artists, and works. The development of a working vocabulary in significant jazz dance styles; and practice of intermediate level techniques.			(Any combination of Dance 79A, 79B, 79C and 79D may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)		
DANC 38A	Appreciation of Dance	4 Units	Individual projects in advanced choreography and dance research.		
(See general education pages for the requirement this course meets.)			Drama		
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.			(See Dance and/or Theatre Arts)		
Four hours lecture.			Economics		
A study of dance as a cultural phenomenon, form of communication, socialization, recreation, artistic expression, and entertainment, exploring the history, traditions and works of outstanding artists.			ECON 1	Principles of Macroeconomics	4 Units
DANC 48	Technical Production for Dance and Theatre	2 Units	(See general education pages for the requirement this course meets.)		
(Formerly Dance 58.)			Advisory: English Writing 1A or English as a Second Language 5.		
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.			Four hours lecture.		
(Also listed as Theatre 48. Student may enroll in either department, but not both, for credit.)			An introduction to macroeconomics. Topics covered will include national income accounting, money and the banking system, money and the price level, classical macro theory, Keynesian macro theory, monetary and fiscal policy, and international trade.		
Four hours lecture-laboratory.			ECON 2	Principles of Microeconomics	4 Units
(Any combination of Dance 48 and Theatre 48 may be taken up to three times as long as the topics/projects in musical drama, dance concert, etc. are different each time.)			(See general education pages for the requirement this course meets.)		
Introduction to the theoretical, technical and craft of dance and theatre production with practical experience in public presentation.			Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.		
DANC 49A	Topics in Theory and Technique of World Dance	1 Unit	Four hours lecture.		
(Formerly Dance 50A.)			Examines fundamental microeconomic issues; the allocation of resources and the pricing of output and factors of production; the distribution of wealth and income; consumer motivations and behavior; the nature and behavior of business firms and markets under various degrees of competition; current problems.		
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.			ECON 78I	Economic Issues in Today's World	3 Units
(Also listed as Physical Education 49A. Student may enroll in either department, but not both, for credit.)			ECON 78J		4 Units
Two hours lecture-laboratory.			(Formerly Economics 40I and 40J respectively.)		
(Any combination of Dance 49A and Physical Education 49A may be taken up to six times as long as the topics in specific dances and cultures are different each time.)			Advisory: English Writing 1A or English as a Second Language 5 ; Economics 1 or 2.		
Introduction to the art of world dance. Course will provide exposure to forms of dance from an international perspective. Students will learn to perform the basic skills of classical, traditional, and folk dances from various world cultures, while developing a working vocabulary of traditional dance movements. Students will attempt to gain an understanding and appreciation of the cultural and historical contexts that produced the specific dance forms.			One hour lecture for each unit of credit.		
			Basic economic analysis of current economic issues. Each topic studied is selected according to its currency and relevance to analysis. Examines fundamental economics issues within the context of current socio-political activity within the local or national economic environment. By learning the economic way of thinking, our students develop the ability to analyze complex, often ill-defined problems, and to think strategically about both intended and unintended consequences. The study of Economics develops a student's ability to organize thoughts, analyze complex issues, and to make clear and persuasive recommendations. These skills explain why economics majors score higher on law school admissions tests than other majors, and receive among the highest starting salaries. Recent classes have involved experimental economic techniques and their application to the understanding and testing of theory; the changing European economic community; liberal, conservative and radical perspectives on current economic policy; the restructuring of the California and United States economy; public finance options for local, state and federal government units; the use of simulations and modeling in economic analysis; political economy; and, experimental and behavioral economic theories and practices.		

EDUC 1 Introduction to Elementary Education in a Diverse Society 3 Units
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Two hours lecture, three hours laboratory.
 Examination of principles and practices of elementary education in today's society including observations and supervised participation in the elementary school setting.

EDUC 41 Class Practices in Middle School Science and Mathematics 2 Units
(Formerly Education 61.)
Prerequisite: Qualifying score on the Math Placement Test within the last calendar year; or Mathematics 114 and a college level science course, both with a grade of C or better; current TB test, finger printing, and background check.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Also listed as Physical Sciences, Mathematics, and Engineering 41. Student may enroll in either department, but not both, for credit.)
One hour lecture, three hours laboratory.
Pass-No Pass (P-NP) course.

Introduction to the teaching and learning of science and mathematics in middle school classrooms for prospective science and mathematics teachers. Pairs of students are placed in local middle school classrooms to observe, participate and assist a Mentor Teacher in science and mathematics instruction. Students also participate in a weekly seminar on campus and discuss the best means to teach appropriate science and mathematics concepts at the middle school level.

EDUC 46 Mathematics for Elementary Education 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: Mathematics 114 with a grade of C or better.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Also listed as Mathematics 46. Student may enroll in either department, but not both, for credit.)
Five hours lecture.

Designed for prospective elementary and middle school teachers. An introduction to the discipline of mathematics as the use of logical, quantitative, and spatial reasoning in the abstraction, modeling, and problem solving of real-world situations. The main topics in the course include the origins of mathematics, mathematical reasoning and problem solving strategies, theory of sets, integers and integral number theory, rational numbers and proportion, real numbers and decimal notation, and measurement. Throughout the course students will experience the learning of mathematics in a way that models how they can create an active learning environment for their future students.

EDUC 56 Understanding and Working with English Language Learners 3 Units
(Also listed as Child Development 56. Student may enroll in either department, but not both, for credit.)
Three hours lecture.

Developmental and cultural examination of the bilingual child in early childhood programs. Theories and developmental sequence of bilingual language acquisition. Role of teacher and methods for supporting the bilingual child.

EDUC 58 Children's Literature 4 Units
(See general education pages for the requirement this course meets.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Also listed as English Literature 58. Student may enroll in either department, but not both, for credit.)
Four hours lecture.

Study of the literature of children (pre-elementary through young adult) with an emphasis on poetry, picture books, folk tales, myths, fiction, fantasy, and nonfiction from a variety of cultures, ethnicities and historical periods. Evaluation of the literary quality and the cultural and historical meaning of individual works. Study of the use of children's literature as an educational tool both in the classroom and outside of it.

EDUC 73 Early Childhood Mental Health 3 Units
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Also listed as Child Development 73. Student may enroll in either department, but not both, for credit.)
Three hours lecture.

Examination of child development and mental health theory. Assessment and screening to identify childhood mental health challenges. Implementation of mental health interventions and strategies. An Exploration of how violence impacts the physical and psychological well-being of adults and children.

EDUC 74 Early Childhood Mental Health Seminar and Fieldwork 3 Units
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Also listed as Child Development 74. Student may enroll in either department, but not both, for credit.)
Two hours lecture, three hours laboratory.
 Provides an overview of different approaches to early intervention with children and their families and will help students develop basic support skills for use in dealing with high risk families, including those with exceptional emotional, social or physical needs.

Electronics

(This is a district program taught at Foothill College.)

Engineering

ENGR 2 The Engineering Profession 2 Units
Prerequisite: Mathematics 212 or equivalent.
Two hours lecture.

A real-world introduction to the study and practice of engineering as a profession; requirements; responsibilities; opportunities; branches of engineering; registration, educational preparation, and the impact engineers have had on our world.

ENGR 10 Introduction to Engineering 4 1/2 Units
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent.
Three hours lecture, five hours laboratory.

An introduction to engineering design through a variety of projects, including experimentation, data analysis, and development of computer skills. Exposure to several engineering disciplines through problem solving for the purpose of providing information to assist students in a choice of major.

ENGR 35 Statics 4 Units
Prerequisite: Engineering 10; Mathematics 1B; Physics 4A.
Three hours lecture, three hours laboratory.

Principles of statics as applied to particles and rigid bodies in two and three dimensions. Vector solutions for concentrated and distributed loads. Determination of centroids and moments of inertia and the effects of dry friction. Programming computer solutions.

ENGR 37 Introduction to Circuit Analysis 5 Units
Prerequisite: Mathematics 1D.
Corequisite: Engineering 37 students must also enroll in Physics 4B.
Five hours lecture.

Introduction to the analysis of lumped, linear, bilateral circuits. Basic equations, elementary network differential equations; natural and forced response of simple circuits. Development of steady state sinusoidal circuit analysis for the network differential equations.

ENGR 45 Properties of Materials 4 Units
Prerequisite: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Engineering 10; Chemistry 1B; Physics 4B.
Three hours lecture, three hours laboratory.

Properties of engineering materials as related to internal structures; modification and control of structure; environmental considerations; selection criteria for applications. Programming computer solutions.

ENGR 77 Special Projects in Engineering 1 Unit
ENGR 77X 2 Units
ENGR 77Y 3 Units

Prerequisite: Consent of the instructor and division dean.
Three hours laboratory for each unit of credit.
(Any combination of Engineering 77, 77X and 77Y may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)
 Individual special reading, writing, or study projects in Engineering as determined in consultation with the instructor.

English

For courses in reading, vocabulary, and spelling, see "Reading." Placement in English is based on results of standardized tests prior to enrollment. To enroll in English Writing 1A, a student must demonstrate competence in reading and writing skills.

Competence in reading is demonstrated by a satisfactory score on a standard test (see schedule of classes for details) or satisfactory completion of Reading 211, including instructor's recommendation.

Competence in writing is demonstrated by a satisfactory score on a standard test (see schedule of classes for details) or satisfactory completion of English Writing 211, including instructor's recommendation.

Students scoring below the qualifying score for Reading 211 in the reading test should enroll in Reading 200. Those scoring below the qualifying score for English Writing 211 on the writing test should enroll in English Writing 200.

English/Literature

Some courses in this department have recommended competencies. These are determined by placement tests; students who have not taken placement tests or who are unsure of their scores should call the Assessment Office at 408.864.8717.

ELIT 1 Introduction to Film 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Film/Television 1. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

An introduction to the international art of cinema through the techniques and procedures of filmmaking, including screenwriting, cinematography, directing, editing, and sound; through the formal properties of film, such as mise-en-scene, structure, and style; through the relationships between film and society, and through the critical analysis of works of film art.

ELIT 3 Film Genres 4 Units

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Film/Television 41. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

(Any combination of English Literature 3 and Film/Television 41 may be taken up to three times for credit as long as the topic matter is different each time.)

Analysis of specific film genres such as action-adventure, comedy, film noir, gangster, horror, musical, science fiction, thriller, war film or western within global, historical, social, cultural, industrial and aesthetic contexts. The genre studied changes each quarter (see subtitle in the quarterly schedule of classes).

ELIT 4 National Cinemas 4 Units

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Film/Television 42. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

(Any combination of English Literature 4 and Film/Television 42 may be taken up to three times for credit as long as the topic matter is different each time.)

Analysis of selected national cinemas in terms of major periods, themes and formal parameters, and in relation to both national and international cultural histories. The national cinema studied changes each quarter (see subtitle in the quarterly schedule of classes).

ELIT 5 Film Artists 4 Units

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Film/Television 43. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

(Any combination of English Literature 5 and Film/Television 43 may be taken up to three times for credit as long as the topic matter is different each time.)

Analysis of the works of specific film artists, such as directors, Alfred Hitchcock or Orson Welles; or analysis of the works of artists practicing a specific film craft, such as screenwriting, acting, cinematography or editing. The topic studied changes each quarter (see subtitle in the quarterly schedule of classes).

ELIT 6 Cinema and the African American (An Historical Analysis of African Americans in American Cinema) 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Intercultural Studies 14 and Film/Television 48. Student may enroll in only one department for credit.)

Four hours lecture.

A survey of the image and role of the American film industry. Particular attention will be given to the development of images of racial stereotypes, those works attempting a historical portrayal of the African American experience and the roles played by key African Americans in the evolution of film as an art and feature films as an industry in the United States.

ELIT 10 Introduction to Fiction 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Intensive study of fiction; reading, discussion and analysis of structure and meaning in selected novels and short stories.

ELIT 11 Introduction to Poetry 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Intensive study of poetry; reading, discussion, and analysis of structure and meaning in selected poems.

ELIT 12 Introduction to Dramatic Literature 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Intensive study of dramatic literature; reading, discussion, and analysis of structure and meaning in selected plays.

ELIT 17 Introduction to Shakespeare 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Analysis of representative Shakespearean sonnets, histories, tragedies, and comedies, placed within the literary and social context of the Renaissance as well as the context of contemporary culture.

ELIT 19 Introduction to the Bible as Literature 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

An introduction to the study of the Bible, in English, from a literary, cultural, and historical point of view, with consideration of its influence on our culture. Selected readings from Hebrew Bible, Greek New Testament, and Apocrypha.

ELIT 20 Major Authors 4 Units

(See general education pages for the requirement this course meets.)

Prerequisite: English Writing 1A.

Four hours lecture.

(May be taken two times for credit as long as the subject matter is different each time.)

Reading and analysis of representative works of one, two, or three major authors through lecture, discussion, and critical writing. Emphasis on author or author's stylistic innovations, historical, social, cultural, multicultural, and gender representations.

ELIT 21 Women in Literature 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Women's Studies 21. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Intensive study of representative literary works by or about women including an analysis of different historical, cultural, and critical perspectives.

ELIT 22 Mythology and Folklore 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

An intercultural survey of prehistoric, historic, and contemporary world mythology and folklore which examines the relationship between a culture's myths and folktales and its art, literature, and social values.

ELIT 23 Literature and Masculinities 4 Units

(Formerly English Literature 63.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Women's Studies 23. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Intensive study of representative literary works that highlight the role of men as writers, characters, subjects and readers, with attention to the relevant historical and cultural contexts of diverse masculinities.

ELIT 24	Asian American Literature (Formerly English Literature 52.) (See general education pages for the requirement this course meets.) Prerequisite: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. (Also listed as Intercultural Studies 24. Student may enroll in either department, but not both, for credit.) Four hours lecture. Introduction to Asian American literature. Readings in Twentieth and Twenty-First Century works, with an emphasis on three relevant themes: problems of identity as it relates to class, gender, mixed heritages, and sexuality; politics and the history of Asian American activism and resistance; and diversity of cultures within the Asian American community.	4 Units
ELIT 25	Introduction to Linguistics (See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. (Also listed as Linguistics 1. Student may enroll in either department, but not both, for credit.) Four hours lecture. Introduction to the nature of language. Origin and development of spoken and written languages, how people learn languages, and how languages change, with emphasis on the history of English. Basics of linguistic description including systems of phonetics and phonology, semantics, morphology and syntax. Study of general linguistic principles as they apply across languages.	4 Units
ELIT 26	Popular Literature (See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Intensive study of popular writing, especially popular fiction, from a social, historical, and literary perspective. Includes examination of oppositions such as popular/literary, high/low culture, entertainment/art.	4 Units
ELIT 39	Contemporary Literature (See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Critical examination of representative, contemporary literary works of the post-WWII period, with emphasis on more recent works and intercultural offerings. Attention to key trends, styles, and issues in a global context.	4 Units
ELIT 44	International Literature (Fiction) (See general education pages for the requirement this course meets.) Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Four hours lecture. Reading and critical analysis of representative works of international fiction, including works from Africa, Asia, Latin America, Pacific Islands, and Australia. Literary, cultural, and cross-cultural interpretation, evaluation, and comparison. Cross-cultural interpretation and literary analysis of short stories and novels.	4 Units
ELIT 46A	Major British Writers (Medieval and Renaissance) (See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Reading and critical analysis of representative works by major writers such as Chaucer, Shakespeare and Milton.	4 Units
ELIT 46B	Major British Writers (Neo-Classical and Romantic) (See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5; or consent of the instructor. Four hours lecture. Reading and critical response to representative works by major writers such as Pope, Behn, Swift, Johnson, Wordsworth, Coleridge, Percy and Mary Godwin Shelley, Keats, Austen, Montagu, and the Bronte sisters.	4 Units
ELIT 46C	Major British Writers (Victorian and Modern) (See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Reading and critical response to representative works by major writers such as the Brontes, Tennyson, Barrett Browning, Browning, Dickens, Arnold, Hopkins, Wilde, Lawrence, Hardy, Yeats, Conrad, Joyce, Eliot, Beckett, Woolf and Auden.	4 Units

ELIT 48A	Major American Writers (Colonial to Romantic, 1620-1865) (See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Reading and critical analysis of representative works by diverse writers such as William Bradford, Anne Bradstreet, Jonathan Edwards, Ben Franklin, Thomas Jefferson, James Fenimore Cooper, Edgar Allan Poe, Nathaniel Hawthorne, Herman Melville, Frederick Douglass, Harriet Jacobs, Harriet Beecher Stowe, Elias Boudinot, Chief Seattle, Sojourner Truth, Ralph Waldo Emerson, Margaret Fuller, Henry David Thoreau.	4 Units
ELIT 48B	Major American Writers (The Advent of Realism, 1865-1914) (See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Reading and critical analysis of representative works by major writers such as Walt Whitman, Emily Dickinson, Mark Twain, Henry James, William Dean Howells, Charlotte Perkins Gilman, Charles Chesnutt, Mary Wilkins Freeman, Kate Chopin, Stephen Crane, Booker T. Washington, W.E.B. DuBois, Black Elk, and Robert Frost.	4 Units
ELIT 48C	Major American Writers (The Modern Age, 1914-the Present) (See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Reading and critical analysis of representative works by major writers such as Faulkner, Hemingway, Hurston, Morrison, Fitzgerald, Hughes, Wright, Ellison, Williams, Cisneros, Stevens, Sexton, Eliot, Vonnegut, Pynchon, O'Connor, Plath, Carver, Wilson, and O'Neill.	4 Units
ELIT 58	Children's Literature (See general education pages for the requirement this course meets.) Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. (Also listed as Education 58. Student may enroll in either department, but not both, for credit.) Four hours lecture. Study of the literature of children (pre-elementary through young adult) with an emphasis on poetry, picture books, folk tales, myths, fiction, fantasy, and nonfiction from a variety of cultures, ethnicities and historical periods. Evaluation of the literary quality and the cultural and historical meaning of individual works. Study of the use of children's literature as an educational tool both in the classroom and outside of it.	4 Units
ELIT 78	Special Topics in Literature	1 Unit
ELIT 78X		2 Units
ELIT 78Y		3 Units
ELIT 78Z	Advisory: English Writing 1A or English as a Second Language 5, or recommendation of instructor or counselor. One hour lecture for each unit of credit. (Any combination of English Literature 78, 78X, 78Y and 78Z may be taken up to six times, not to exceed 18 units, as long as the topics are different each time.) Intensive study and analysis of a special topic in literature.	4 Units
ELIT 97	Special Topics: Shakespeare in Performance Advisory: English Writing 1A or English as a Second Language 5. One hour lecture, three hours laboratory. (May be taken six times for credit, as the topics are different each time.) Discussions of selected plays and an extended field trip to live performances of the plays at the annual Oregon Shakespeare Festival. Costs to be borne by the student.	2 Units

English/Writing

Some courses in this department have recommended competencies. These are determined by placement tests; students who have not taken placement tests or who are unsure of their scores should call the Assessment Office at 408.864.8717.

EWRT 1A	Composition and Reading (See general education pages for the requirement this course meets.) Prerequisite: English Writing 211 and Reading 211 (or Language Arts 211); or equivalent placement (normally based on results of the English Placement Tests). Five hours lecture. Introduction to university level reading and writing, with an emphasis on analysis. Close examination of a variety of texts (personal, popular, literary, professional, academic) from culturally diverse traditions. Practice in common rhetorical strategies used in academic writing. Composition of clear, well-organized, and well-developed essays, with varying purposes and differing audiences, from personal to academic.	5 Units
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EWRT 1B	Reading, Writing, and Research	5 Units	EWRT 63	Technical Publications	5 Units
<i>(See general education pages for the requirement this course meets.)</i> <i>Prerequisite: English Writing 1A.</i> <i>Five hours lecture.</i> Development of analytical, integrative skills in reading and writing. Academic (interpretive, analytical, argumentative) writing based largely on reading of literary/imaginative texts linked by a common theme or issue. Outside research leading to analysis, comparison, and synthesis in documented research paper.			<i>Prerequisite: Business 61 or English Writing 61 or Technical Writing 61.</i> <i>(Also listed as Business 63 and Technical Writing 63. Student may enroll in only one department for credit.)</i> <i>Five hours lecture.</i> Technical writing and editing skills applied through individual and group assignments with emphasis on planning, scheduling, and producing longer reports, manuals, and instructions. Development of organizational skills and individual documentation solutions.		
EWRT 1C	Literature and Composition	5 Units	EWRT 64	Technical Writing Seminar	5 Units
<i>(See general education pages for the requirement this course meets.)</i> <i>Prerequisite: English Writing 1B.</i> <i>Five hours lecture.</i> Applies the analytical, critical, and synthesis skills developed in English Writing 1A and 1B to the ways meaning can be made in diverse cultural, social, and historical contexts in prose, poetry, and drama by reading and analyzing texts and critical interpretations and by composing critical responses, analyses, and arguments.			<i>Prerequisite: Business 62 or 63; or English Writing 62 or 63; or Technical Writing 62 or 63.</i> <i>(Also listed as Business 64 and Technical Writing 64. Student may enroll in only one department for credit.)</i> <i>Five hours lecture.</i> Technical communication and editing skills applied through the preparation and presentation of a complete document according to the standards of the student's chosen technical field.		
EWRT 2	Critical Reading, Writing, and Thinking	5 Units	EWRT 65	Literary Magazine	1 Unit
<i>(See general education pages for the requirement this course meets.)</i> <i>Prerequisite: English Writing 1A.</i> <i>Five hours lecture.</i> Develops critical thinking skills and the ability to apply these skills to reading and writing. Develop analytical and argumentative academic essays based on reading of complex texts, and the use of outside research leading to analysis, comparison, and synthesis and a documented research paper.			EWRT 65X <i>Advisory: English Writing 1A or English as a Second Language 5.</i> <i>(Also listed as Journalism 65W and 65X. Student may enroll in either department, but not both, for credit.)</i> <i>Two hours lecture-laboratory for the one-unit course; two hours lecture-laboratory and three hours laboratory for the two unit course.</i> <i>(Any combination of English Writing 65, 65X and Journalism 65W, 65X may be taken up to six times for credit. Submissions vary each quarter, so content is different. Students build upon previous experience and develop higher-level skills.)</i> <i>Pass-No Pass (P-NP) course.</i> Collaborative evaluation and selection of fiction, poetry, photography, drawings, and other literary and artistic work for literary magazine. Magazine design and production. (Additional editorial, production, management, or marketing work for English Writing 65X and Journalism 65X.)		
EWRT 30	Introduction to Creative Writing	4 Units	EWRT 77		
<i>(See general education pages for the requirement this course meets.)</i> <i>Prerequisite: English Writing 211 and Reading 211 (or Language Arts 211); plus corequisite lab classes in each case; or equivalent placement into English Writing 1A.</i> <i>Four hours lecture.</i> Introduction to the writing of fiction, poetry, drama, and creative nonfiction, through both critical analysis and intensive practice.			EWRT 77X		
EWRT 40	Fiction Writing	4 Units	EWRT 77Y		
<i>Prerequisite: English Writing 211 and Reading 211 (or Language Arts 211).</i> <i>Advisory: English Writing 30.</i> <i>Four hours lecture.</i> <i>Pass-No Pass (P-NP) course.</i> Development of fiction writing skills through critical analysis and intensive practice.			<i>(Formerly English Writing 56, 56X and 56Y respectively.)</i> <i>Prerequisite: Consent of instructor and division dean.</i> <i>Advisory: English Writing 1A or English as a Second Language 5.</i> <i>Three hours laboratory for each unit of credit.</i> <i>(Any combination of English Writing 77, 77X and 77Y may be taken up to six times for credit, not to exceed 18 units, as long as the projects are different each time.)</i> <i>Pass-No Pass (P-NP) course.</i> Special reading, writing, or study projects in English as determined in consultation with the instructor.		
EWRT 41	Poetry Writing	4 Units	EWRT 97		
<i>Prerequisite: English Writing 211 and Reading 211 (or Language Arts 211).</i> <i>Advisory: English Writing 30.</i> <i>Four hours lecture.</i> <i>Pass-No Pass (P-NP) course.</i> Development of poetry writing skills through critical analysis and intensive practice			Introduction to Peer Tutoring in Writing		3 Units
EWRT 42	Writing It Real: Creative Nonfiction and Memoir Writing	4 Units	<i>Prerequisite: English Writing 1A or English as a Second Language 5; must be hired to work as a De Anza tutor.</i> <i>(Also listed as Learning Assistance 97. Student may enroll in either department, but not both, for credit.)</i> <i>Three hours lecture.</i> Required training for De Anza writing tutors. Introduction to the theory and practice of tutoring writing, including strategies and approaches to help students from diverse linguistic backgrounds at various stages of the writing process. Students read about, observe, discuss, write about and practice the craft of tutoring writing. After an initial orientation, students in the class begin tutoring, and reflect on their tutoring experiences as part of the class.		
<i>(Formerly English Writing 54.)</i> <i>Prerequisite: English Writing 211 and Reading 211 (or Language Arts 211).</i> <i>Four hours lecture.</i> Development of skills in writing creative nonfiction and memoir through critical analysis and intensive practice.			EWRT 200	Fundamentals of Writing	5 Units
EWRT 50	Creative Writing Workshop	4 Units	<i>Credit course - Does not apply to De Anza Associate degree.</i> <i>Prerequisite: Qualifying score on the English Placement Test.</i> <i>Five hours lecture.</i> <i>(May be taken two times for credit.)</i> <i>Pass-No Pass (P-NP) course.</i> Practice focused, purposeful writing in several formats to different audiences with a variety of sentence structures responding to, engaging with or inspired by written or visual texts. Edit writing to correct errors in the major conventions of Standard Written English.		
<i>Prerequisite: English Writing 211 and Reading 211 (or Language Arts 211).</i> <i>Four hours lecture.</i> Further development of creative writing skills through careful analysis, intensive practice, and collaborative critique.			EWRT 211	Preparatory Reading and Writing Skills	5 Units
EWRT 61	Introduction to Technical Writing	5 Units	<i>(Formerly English Writing 100.)</i> <i>Credit course - Does not apply to De Anza Associate degree.</i> <i>Prerequisite: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; or an English Placement Test score of 41 or above.</i> <i>Five hours lecture.</i> <i>Pass-No Pass (P-NP) course.</i> Develop the abilities necessary for college-level reading and essay writing. Emphasize writing in response to critical questions about assigned texts.		
<i>Prerequisite: English Writing 1A or English as a Second Language 5.</i> <i>(Also listed as Business 61 and Technical Writing 61. Student may enroll in only one department for credit.)</i> <i>Five hours lecture.</i> Technical writing skills focusing on basic techniques of exposition for the technical field, functional description, process writing, technical vocabulary, correct usage, and accurate editing.					
EWRT 62	Survey of Technical Writing	5 Units			
<i>Prerequisite: Business 61 or English Writing 61 or Technical Writing 61 (may be taken concurrently).</i> <i>(Also listed as Business 62 and Technical Writing 62. Student may enroll in only one department for credit.)</i> <i>Five hours lecture.</i> Technical writing skills focusing on short document formats, production of sections of various technical documents, and incorporation of graphics within text.					

EWRT 274 Grammar and Proofreading for Academic Writing 4 Units

(Formerly English Writing 174.)

Credit course - Does not apply to De Anza Associate degree.

(Recommended for students whose native language is not English and students who wish to improve their grammar and proofreading skills.)

Prerequisite: English as a Second Language 261, 262 and 263; English Writing 200.

(Also listed as English as a Second Language 274. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Focus on helping students become successful academic writers by addressing their needs (a) to understand grammatical structures fundamental to college writing and (b) to develop effective proofreading skills.

English as a Second Language

Students are required to take the De Anza College ESL Placement Test before enrolling in ESL classes. Students who need information about the placement test should look in the *Schedule of Classes* in the section on "Testing" or call the Assessment Office at 408.864.8717.

ESL 5 Advanced Composition and Reading 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; or a qualifying score on the English as a Second Language Placement Test.

Five hours lecture.

Close reading and analysis of a variety of personal, societal, academic, and literary texts representing culturally diverse perspectives. Practice of the techniques of expository, response, and argumentative writing based on personal experience, critical reading, and critical thinking. Composition of clear, organized, and well-developed essays with varied rhetorical strategies and for differing audiences.

ESL 6 Critical Reading and Research for Writing 5 Units

(See general education pages for the requirement this course meets.)

(Restricted to students whose native language is not English.)

Prerequisite: English Writing 1A or English as a Second Language 5.

Five hours lecture.

Development of analytical, integrative and research skills in reading and writing. Academic writing based largely on analytic and interpretive reading of culturally diverse literature. Outside research leading to analysis, comparison, and synthesis in a documented research paper.

ESL 200 High Beginning English as a Second Language 10 Units

Credit course - Does not apply to De Anza Associate degree.

Prerequisite: Qualifying score on the English as a Second Language Placement Test.

Ten hours lecture.

Development of English speaking, listening, reading and writing skills. Practice in listening to and using basic forms of conversational English with comprehensible pronunciation. Development of basic reading comprehension and vocabulary. Practice in writing simple and compound sentences, short narratives, explanations and descriptions.

ESL 210 Practice in Speaking and Conversation 1/2 Unit

Credit course - Does not apply to De Anza Associate degree.

(Restricted to students whose native language is not English.)

Prerequisite: English as a Second Language 244.

One hour lecture-laboratory.

(May be taken up to three times for credit.)

Pass-No Pass (P-NP) course.

English speaking and conversation skills practiced in a variety of contexts to develop vocabulary, comprehensibility and cultural awareness.

ESL 211 Listening in Context 1/2 Unit

ESL 211X

(English as a Second Language 211 was formerly English as a Second Language 111.)

Credit course - Does not apply to De Anza Associate degree.

(Restricted to students whose native language is not English.)

Prerequisite: English as a Second Language 251.

One hour lecture-laboratory.

Pass-No Pass (P-NP) course.

English listening practice in a variety of contexts to expand vocabulary, comprehensibility and cultural awareness.

ESL 213 Vocabulary and Idioms in Context 1/2 Unit
ESL 213X 1 Unit

(English as a Second Language 213 was formerly English as a Second Language 113.)

Credit course - Does not apply to De Anza Associate degree.

(Restricted to students whose native language is not English.)

Prerequisite: English as a Second Language 244.

One-hour lecture-laboratory for the one-half unit course, two hours lecture-laboratory for the one unit course.

Pass-No Pass (P-NP) course.

Vocabulary expansion: reading and listening exposure to vocabulary and idioms in a variety of contexts with follow-up spoken and written practice.

ESL 214 English for Academic Skills 1/2 Unit

Credit course - Does not apply to De Anza Associate degree.

(Restricted to students whose native language is not English.)

Prerequisite: English as a Second Language 261, 262 and 263.

One hour lecture-laboratory.

(May be taken up to three times for credit.)

Pass-No Pass (P-NP) course.

Academic skills with emphasis on improving skills in reading, writing and aurally comprehending academic English to prepare students for college-level general education courses.

ESL 216 Advanced Reading Practice 1/2 Unit

ESL 216X

(English as a Second Language 216 was formerly English as a Second Language 116.)

Credit course - Does not apply to De Anza Associate degree.

(Restricted to students whose native language is not English.)

Prerequisite: English as a Second Language 252.

One-hour lecture-laboratory for the one-half unit course, two hours lecture-laboratory for the one unit course.

Pass-No Pass (P-NP) course.

Extensive reading to expand vocabulary, develop critical reading skills, and improve ability to analyze reading selections through small group discussion.

ESL 222 Reading Comprehension 1/2 Unit

(Formerly English as a Second Language 224.)

Credit course - Does not apply to De Anza Associate degree.

(Restricted to students whose native language is not English.)

Prerequisite: English as a Second Language 244.

One hour lecture-laboratory.

(May be taken up to three times for credit.)

Pass-No Pass (P-NP) course.

Reading practice and vocabulary development to improve comprehension of topics and issues reported by the news media.

ESL 223 Reading and Vocabulary Building 1/2 Unit

ESL 223X

(English as a Second Language 223 was formerly English as a Second Language 123.)

Credit course - Does not apply to De Anza Associate degree.

(Restricted to students whose native language is not English.)

Prerequisite: English as a Second Language 234.

One-hour lecture-laboratory for the one-half unit course, two hours lecture-laboratory for the one unit course.

Pass-No Pass (P-NP) course.

Develop an appreciation for reading and sharing ideas in English while improving reading skills, retention, and vocabulary.

ESL 230 Studies in American Language and Culture 1 Unit

ESL 230W

ESL 230X

ESL 230Y

Credit course - Does not apply to De Anza Associate degree.

(Restricted to students whose native language is not English.)

One hour lecture for each unit of credit.

Pass-No Pass (P-NP) course.

Develop conversation, discussion and listening skills for clear communication in a variety of contexts. Investigate and analyze customs and attitudes in American culture from a multicultural perspective.

ESL 234	Low Intermediate English as a Second Language	10 Units	<p>(Formerly English as a Second Language 134.) Credit course - Does not apply to De Anza Associate degree. (Restricted to students whose native language is not English.) Prerequisite: Qualifying score on the English as a Second Language Placement Test. Ten hours lecture. Development of English speaking, listening, reading and writing skills. Practice in listening to and using basic forms of conversational English to ask and answer questions on a variety of cultural topics. Development of basic reading comprehension and vocabulary. Practice in writing simple and compound sentences, short narratives, explanations, and descriptions.</p>
ESL 244	Intermediate English as a Second Language	10 Units	<p>(Formerly English as a Second Language 144.) Credit course - Does not apply to De Anza Associate degree. (Restricted to students whose native language is not English.) Prerequisite: Qualifying score on the English as a Second Language Placement Test; or English as a Second Language 234 with a grade of C or better. Ten hours lecture. Development of English speaking, listening, reading and writing skills. Includes pronunciation practice, vocabulary building skills, writing short compositions and discussion of cross-cultural topics.</p>
ESL 251	High Intermediate Listening and Speaking	3 Units	<p>Credit course - Does not apply to De Anza Associate degree. (Restricted to students whose native language is not English.) Prerequisite: English as a Second Language 244; or a qualifying score on the English as a Second Language Placement Test. Corequisite: English as a Second Language 251 students may also take English as a Second Language 252 and 253 concurrently. Three hours lecture. English speaking and listening practice in a variety of contexts. Development of vocabulary appropriate in both formal and informal situations.</p>
ESL 252	High Intermediate Reading	3 Units	<p>(Formerly English as a Second Language 152.) Credit course - Does not apply to De Anza Associate degree. (Restricted to students whose native language is not English.) Prerequisite: English as a Second Language 244; or a qualifying score on the English as a Second Language Placement Test. Corequisite: English as a Second Language 252 students may also take English as a Second Language 251 and 253 concurrently. Three hours lecture. Development of high intermediate English reading comprehension and vocabulary building skills in extended written materials.</p>
ESL 253	High Intermediate Grammar and Writing	4 Units	<p>Credit course - Does not apply to De Anza Associate degree. (Restricted to students whose native language is not English.) Prerequisite: English as a Second Language 244; or a qualifying score on the English as a Second Language Placement Test. Corequisite: English as a Second Language 253 students may also enroll in English as a Second Language 251 and 252 concurrently. Four hours lecture. Develop skills in using level-specific grammar and sentence structure in writing. Write organized and well-developed descriptive, narrative, and explanatory paragraphs.</p>
ESL 254	American Language and Culture Through Movies and Television Shows	3 Units	<p>Credit course - Does not apply to De Anza Associate degree. (Restricted to students whose native language is not English.) Prerequisite: English as a Second Language 251; or a qualifying score on the English as a Second Language Placement Test. Three hours lecture. Develop an understanding of American culture, language, common idioms and slang through viewing and discussing American films and television.</p>
ESL 260	Accent Reduction (for Non-Native Speakers)	3 Units	<p>Credit course - Does not apply to De Anza Associate degree. (Restricted to students whose native language is not English.) Advisory: English as a Second Language 251. Two hours lecture, three hours laboratory. Pass-No Pass (P-NP) course. Emphasis on production of speech that is intelligible and accurate, through study and practice of English language sound system, stress, linking, reduction, rhythm, and intonation patterns.</p>
ESL 261	Low Advanced Listening and Speaking	3 Units	<p>(Formerly English as a Second Language 161.) Credit course - Does not apply to De Anza Associate degree. (Restricted to students whose native language is not English.) Prerequisite: English as a Second Language 251 or a qualifying score on the English as a Second Language Placement Test. Corequisite: English as a Second Language 261 students may enroll in English as a Second Language 262 and 263 concurrently. Three hours lecture. Speaking and listening: emphasis on comprehension and analysis of information; expression of students' ideas using a variety of levels of sophistication. Development of listening, pronunciation and note-taking skills.</p>
ESL 262	Low Advanced Reading	3 Units	<p>Credit course - Does not apply to De Anza Associate degree. (Restricted to students whose native language is not English.) Prerequisite: English as a Second Language 252; or a qualifying score on the English as a Second Language Placement Test. Corequisite: English as a Second Language 262 students may also enroll in English as a Second Language 261 and 263 concurrently. Three hours lecture. Development of advanced reading comprehension, vocabulary building skills, and improved reading rate in extended written materials.</p>
ESL 263	Low Advanced Grammar and Writing	4 Units	<p>Credit course - Does not apply to De Anza Associate degree. (Restricted to students whose native language is not English.) Prerequisite: English as a Second Language 253; or a qualifying score on the English as a Second Language Placement Test. Corequisite: English as a Second Language 263 students may also enroll in English as a Second Language 261 and 262 concurrently. Four hours lecture. Develop skills for writing clear, organized, well-developed, multiple paragraph compositions that demonstrate analytical thinking and level-appropriate grammar, sentence structure and vocabulary.</p>
ESL 272	Advanced Reading and Vocabulary	5 Units	<p>(Formerly English as a Second Language 172.) Credit course - Does not apply to De Anza Associate degree. (Restricted to students whose native language is not English.) Prerequisite: Reading 200 (or Language Arts 200), or English as a Second Language 262; or a qualifying score on the English as a Second Language Placement Test. Corequisite: English as a Second Language 272 students may also enroll in English as a Second Language 273 concurrently. Five hours lecture. Development of academic vocabulary and reading skills through extensive reading of college level material in English.</p>
ESL 273	Introduction to the Essay	5 Units	<p>(Formerly English as a Second Language 173.) Credit course - Does not apply to De Anza Associate degree. (Restricted to students whose native language is not English.) Prerequisite: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263 with a grade of C or better; or a qualifying score on the English as a Second Language Placement Test. Corequisite: English as a Second Language 273 students may also enroll in English as a Second Language 272 concurrently. Five hours lecture. Principles of essay writing.</p>
ESL 274	Grammar and Proofreading for Academic Writing	4 Units	<p>(Formerly English as a Second Language 174.) Credit course - Does not apply to De Anza Associate degree. (Recommended for students whose native language is not English and students who wish to improve their grammar and proofreading skills.) Prerequisite: English as a Second Language 261, 262 and 263; English Writing 200. (Also listed as English Writing 274. Student may enroll in either department, but not both, for credit.) Four hours lecture. Focus on helping students become successful academic writers by addressing their needs (a) to understand grammatical structures fundamental to college writing and (b) to develop effective proofreading skills.</p>

ESL 280**English As a Second Language for
Child Development and Education****ESL 280X**
ESL 280Y**1 Unit**
2 Units
3 Units*Credit course - Does not apply to De Anza Associate degree.**(Restricted to students whose native language is not English and who are enrolled in the Child Development Department.)**Corequisite: English as a Second Language 280 students must also enroll in Child Development 10G or 10H; and Child Development 12, 50, 51, 54, 56 and 64.**Advisory: English as a Second Language 251, 252, and 253; or a qualifying score on the English as a Second Language placement test.**One hour lecture for each unit of credit.**Language support for non-native English speakers taking Child Development courses, including listening/speaking, reading, writing, and vocabulary building strategies and test-taking and study skills to help students successfully understand Child Development courses, textbooks, class and group discussions, and writing and interview assignments.*

Environmental Science

ESCI 1 Environmental Science**4 Units***(Formerly Environmental Science 51.)**(See general education pages for the requirement this course meets.)**Advisory: English Writing 1A or English as a Second Language 5.**Four hours lecture.**An introduction to environmental science as a branch of the sciences and its relation to the scientific field including the scientific method. Review of the principles, concepts and terminology of the environmental sciences and ecological literacy including restoration ecology, landscape ecology, sustainable studies and ecosystem management. Agenda 21 and other environmental indicator tools as they relate to human use of the earth's systems including the hydrosphere, atmosphere, lithosphere and biosphere and the impact on cultural, ethnic and gender groups will be explored. (One-day field trip outside of scheduled class time may be required for this course.)***ESCI 1L Environmental Science Laboratory****1 Unit***(Formerly Environmental Science 51L.)**(See general education pages for the requirement this course meets.)**Corequisite: Environmental Science 1L students must also enroll in, or have completed, Environmental Science 1.**Advisory: English Writing 1A or English as a Second Language 5.**Three hours laboratory.**An introduction to environmental science as a branch of the sciences including the scientific method and its relation to the scientific field in a laboratory and field setting. Applications of scientific, environmental, ecological and sustainability principles as they relate to human societies will be explored.***ESCI 19 Environmental Biology****5 Units***(See general education pages for the requirement this course meets.)**Advisory: English Writing 1A or English as a Second Language 5.**Four hours lecture, three hours laboratory.**An introduction to environmental biology as a branch of the environmental sciences and its relation to the scientific field. Review of the principles of environmental biology, ecology and conservation as they relate to natural resource use, the biodiversity crisis, pollution, human population and the impacts on all cultural, ethnic and gender groups. (Field trip outside of scheduled class time may be required for this course.)***ESCI 20 Introduction to Biodiversity****5 Units***(See general education pages for the requirement this course meets.)**Advisory: English Writing 1A or English as a Second Language 5; Environmental Science 19.**Four hours lecture, three hours laboratory.**Introduction to biodiversity conservation as a branch of the environmental sciences, conservation biology and related scientific fields. Includes survey of species and ecosystem diversity, elements of biological classification; evolutionary trends and the mechanisms of evolution; ecology and the importance and problems of biodiversity conservation today.***ESCI 21 Biodiversity 2****5 Units***Advisory: English Writing 1A or English as a Second Language 5.**Four hours lecture, three hours laboratory.**A survey of the California Floristic Province, emphasizing the ways California's biodiversity is sampled and studied. Includes hands-on fieldwork surveying vegetation and animal populations; discussion of societal impacts of biodiversity loss and conservation; and the importance of biodiversity conservation today. (Off-campus field trips will be required.)***ESCI 30 Conservation Biology****5 Units***(See general education pages for the requirement this course meets.)**Advisory: English Writing 1A or English as a Second Language 5.**Four hours lecture, three hours laboratory.**An introduction to conservation biology as a branch of the environmental sciences with particular focus on maintaining genetic, species and ecological diversity of life on Earth. Contemporary bio-conservation issues will be explored and adaptive, community-based conservation techniques applied to develop practical problem-solving approaches to the biodiversity crisis including habitat fragmentation. In addition cultural, economic and philosophical aspects of biodiversity conservation will be explored. (Off-campus field trips will be required.)***ESCI 50 Introduction to Wildlife Corridor Technician: Connectivity****2 Units***Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.**Two hours lecture.**Explore wildlife corridors (connectivity) practice and technology in the 21st century including the scientific principles of corridor ecology, landscape ecology and ecosystem (adaptive) management. Apply the principles (theory) of wildlife corridor technology to assist in the preservation, protection and restoration of native species and ecosystems.***ESCI 52 Wildlife Corridor Technician: Animal Tracking Techniques****1 Unit***Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.**One hour lecture.**Explore the techniques of animal tracking and observation. Apply the field (practical) techniques used in wildlife corridor technology to assist in the preservation, protection and restoration of native species and ecosystems.***ESCI 53 Wildlife Corridor Technician: Data Collection****1 Unit***Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.**Three hours laboratory.**Explore the data collection techniques, protocol and equipment utilized in wildlife corridor technology. Apply the data collection techniques used in the wildlife corridor discipline to assist in the preservation, protection and restoration of native species and ecosystems.***ESCI 54 Wildlife Corridor Technician: Data Analysis****1 Unit***Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.**One hour lecture.**Explore the data analysis techniques (including least cost path analysis), protocol and equipment utilized in wildlife corridor technology. Apply the data analysis techniques utilized in the wildlife corridor discipline to assist in the preservation, protection and restoration of native species and ecosystems.***ESCI 55 Wildlife Corridor Technician: Corridor Design****1 Unit***Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.**One hour lecture.**Examine the process of wildlife corridor (connectivity) design in the 21st century, incorporating the principles and challenges of corridor ecology, ecosystem (adaptive) management and the urban-wildlife interface. Apply the principles of wildlife corridor design to assist in the preservation, protection and restoration of native species and ecosystems.***ESCI 56 Wildlife Corridor Technician: Plant Survey Techniques****1 Unit***Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.**One hour lecture.**Examine the plant survey techniques and plant community ecology principles utilized in wildlife corridor design, preservation or restoration. Apply these plant survey techniques to assist in the preservation, protection and restoration of native species and ecosystems.***ESCI 57 Wildlife Corridor Technician: Advanced Tracking****2 Units***Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.**Six hours laboratory.**Advanced tracking field studies lab course exploring wildlife movement and activities along the 37th parallel (Santa Cruz Mountains through the Diablo Range). Apply the principles of wildlife corridor technology to assist in the preservation, protection and restoration of native species and ecosystems.*

ESCI 58	Wildlife Corridor Technician: Advanced Tracking 2	4 Units	ESCI 83	Central Coast Wildlife Corridors: Salinas River Drainage	1 Unit
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Twelve hours laboratory.</i> Advanced tracking, level 2, field studies lab course exploring wildlife movement, activities and analysis along the 37th parallel (Santa Cruz Mountains through the Diablo Range) and statewide (C to C: Coyote Valley to Carrizo Plains National Monument). Apply the advanced tracking principles and techniques to a statewide corridor case study (California's New Model for Corridors, Connectivity, Children & Capital) to assist in the preservation, protection and restoration of native species and ecosystems statewide.			ESCI 83X ESCI 83Y ESCI 83Z <i>Three hours laboratory for each unit of credit. (Any combination of Environmental Sciences 83, 83X, 83Y and 83Z may be taken up to six times, not to exceed 18 units, as long as the topics are different each time.)</i>		
			An exploration of the Salinas River Wildlife Corridor as an integral component of the Central Coast Wildlife Corridor Regional Landscape (CCWCRL). This field studies course will emphasize wildlife field identification techniques, animal tracking and bird survey protocols, field observation and data collection. These field studies will assist in the long-term preservation, protection and restoration of native species and ecosystems of the Central Coast Region.		
ESCI 61	Introduction to Photovoltaic (PV) Technology	3 Units	ESCI 84	Central Coast Wildlife Corridors: San Benito River Drainage	1 Unit
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Three hours lecture.</i> An introduction to the fundamentals of photovoltaic (PV) basics including how solar cells convert sunlight to electricity, solar potential, types of solar systems, system size requirement and design, net metering options, rebate programs, and related topics for your home or business. An emphasis on the benefits of renewable energy technology as well as how to understand and review multiple bids and analyzing the economics of a PV installation. Good introductory course for students considering the North American Board of Certified Energy Practitioners (NABCEP) certification program. (Out-of-class field trips may be required for this course.)			ESCI 84X ESCI 84Y ESCI 84Z <i>Three hours laboratory for each unit of credit. (Any combination of Environmental Sciences 84, 84X, 84Y and 84Z may be taken up to six times, not to exceed 18 units, as long as the topics are different each time.)</i>		
			An exploration of the San Benito River drainage Wildlife Corridor as an integral component of the Central Coast Wildlife Corridor Regional Landscape (CCWCRL). This field studies course will emphasize wildlife field identification techniques, animal tracking and bird survey protocols, field observation and data collection. These field studies will assist in the long-term preservation, protection and restoration of native species and ecosystems of the Central Coast Region.		
ESCI 63	Photovoltaic (PV) Technology Field Project	2 Units	ESCI 85	Central Coast Wildlife Corridors: Pajaro River Drainage	1 Unit
<i>Advisory: Environmental Sciences 61; English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Six hours laboratory.</i> A photovoltaic (PV) technology field studies course emphasizing hands-on learning of solar angle/orientation and energy use calculation, PV systems design and installation for residential and commercial projects. Good field studies course for students considering the North American Board of Certified Energy Practitioners (NABCEP) certification program. (Out-of-class field trips are required for this course.)			ESCI 85X ESCI 85Y ESCI 85Z <i>Three hours laboratory for each unit of credit. (Any combination of Environmental Sciences 85, 85X, 85Y and 85Z may be taken up to six times, not to exceed 18 units, as long as the topics are different each time.)</i>		
			An exploration of the Pajaro River drainage Wildlife Corridor as an integral component of the Central Coast Wildlife Corridor Regional Landscape (CCWCRL). This field studies course will emphasize wildlife field identification techniques, animal tracking and bird survey protocols, field observation and data collection. These field studies will assist in the long-term preservation, protection and restoration of native species and ecosystems of the Central Coast Region.		
ESCI 77	Special Projects in Environmental Science	1 Unit	ESCI 86	Central Coast Wildlife Corridors: Pacheco Pass	1 Unit
ESCI 77X		2 Units	ESCI 86X		2 Units
ESCI 77Y		3 Units	ESCI 86Y		3 Units
<i>Prerequisite: Consent of instructor and division dean. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Three hours laboratory for each unit of credit. (Any combination of Environmental Science 77, 77X and 77Y may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)</i> Individual research in environmental science. Specific projects determined on consultation with the instructor. Outside reading and written report required.			ESCI 86Z		4 Units
			<i>Three hours laboratory for each unit of credit. (Any combination of Environmental Sciences 86, 86X, 86Y and 86Z may be taken up to six times, not to exceed 18 units, as long as the topics are different each time.)</i>		
			An exploration of the Pacheco Pass Wildlife Corridor as an integral component of the Central Coast Wildlife Corridor Regional Landscape (CCWCRL). This field studies course will emphasize wildlife field identification techniques, animal tracking and bird survey protocols, field observation and data collection. These field studies will assist in the long-term preservation, protection and restoration of native species and ecosystems of the Central Coast Region.		
ESCI 81	Introduction to Ecotourism in the 21st Century	1 Unit	ESCI 87	Central Coast Wildlife Corridors: Diablo Range	1 Unit
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. One hour lecture.</i> Explore the newly emerging field of ecotourism in the 21st Century including the principles of ecosystem management and restoration ecology and community-based coalition models throughout the Americas. Apply the community-based ecotourism model of collaboration to local environmental case studies to preserve, protect and restore native species and ecosystems.			ESCI 87X		2 Units
			ESCI 87Y		3 Units
			ESCI 87Z		1 Unit
<i>Three hours laboratory for each unit of credit. (Any combination of Environmental Sciences 82, 82X, 82Y and 82Z may be taken up to six times, not to exceed 18 units, as long as the topics are different each time.)</i> An exploration of the Coyote Valley Wildlife Corridor as an integral component of the Central Coast Wildlife Corridor Regional Landscape (CCWCRL). This field studies course will emphasize wildlife field identification techniques, animal tracking and bird survey protocols, field observation and data collection. These field studies will assist in the long-term preservation, protection and restoration of native species and ecosystems of the Central Coast Region.			<i>Three hours laboratory for each unit of credit. (Any combination of Environmental Sciences 87, 87X, 87Y and 87Z may be taken up to six times, not to exceed 18 units, as long as the topics are different each time.)</i> An exploration of the Diablo Range Wildlife Corridor as an integral component of the Central Coast Wildlife Corridor Regional Landscape (CCWCRL). This field studies course will emphasize wildlife field identification techniques, animal tracking and bird survey protocols, field observation and data collection. These field studies will assist in the long-term preservation, protection and restoration of native species and ecosystems of the Central Coast Region.		

ESCI 88 Central Coast Wildlife Corridors: Santa Cruz Mountains 1 Unit
ESCI 88X 2 Units
ESCI 88Y 3 Units
ESCI 88Z 4 Units

Three hours laboratory for each unit of credit.

(Any combination of Environmental Sciences 88, 88X, 88Y and 88Z may be taken up to six times, not to exceed 18 units, as long as the topics are different each time.)

An exploration of the Santa Cruz Mountains Wildlife Corridor as an integral component of the Central Coast Wildlife Corridor Regional Landscape (CCWCRL). This field studies course will emphasize wildlife field identification techniques, animal tracking and bird survey protocols, field observation and data collection. These field studies will assist in the long-term preservation, protection and restoration of native species and ecosystems of the Central Coast Region.

ESCI 90 Santa Clara County Field Studies: Tule Elk 1 Unit
 One hour lecture.

Field observation of the tule elk (*cervus elaphus nannodes*) found in Santa Clara County, California with an emphasis on the history of tule elk reintroduction, habitat utilization, home range characteristics, behaviors and other natural history insights. The underlying social, economic and political issues associated with the near extinction and restoration of this subspecies of North American elk will be discussed. (Off-campus field trips will be required.)

ESCI 91 Santa Clara County Field Studies: American Badger 1 Unit
 One hour lecture.

Field observation of the American badger (*taxidea taxus*) found in Santa Clara County, California with an emphasis on habitat utilization, home range characteristics, behaviors and other natural history insights. The underlying social, economic and political issues associated with the decline and listing as a species of special concern for this mammal will be discussed. (Off-campus field trips will be required.)

ESCI 92 Santa Clara County Field Studies: Raptors 1 Unit
 One hour lecture.

Field observation of raptors (bird of prey) found in Santa Clara County, California with an emphasis on the natural history such as habitat utilization, breeding biology, behaviors, identification and migration. Local conservation issues associated with raptors will also be looked at. (Off-campus field trips will be required.)

Environmental Studies

E S 1 Introduction to Environmental Studies 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

An interdisciplinary study of the use of the earth's natural resources by human civilizations, past and present, and the role that economics, ethics, law, history, politics, culture and gender inequity have played in resource use and distribution. (One field trip may be required outside of class time.)

E S 2 Humans, the Environment, and Sustainability 4 Units

(Formerly Environmental Studies 52.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

A study of human evolution, biology and ecology, including human civilizations, past and present, and the interaction with the environment. Environmental worldviews (ethics), past and present, of the various cultural, ethnic, gender and socioeconomic groups will be explored. (One field trip may be required outside of class time.)

E S 3 Imagery of the Environment 4 Units

(Formerly Environmental Studies 53.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

An introduction to the academic discipline of Environmental Studies through historical and contemporary analysis of nature-based imagery. What those representations indicate about past and present environmental changes will be discussed. Roles of the artist as naturalist, scientist and conservationist will be explored, as well as visual representation by a diverse range of cultural groups. (One field trip outside of class may be required for this course.)

E S 6 Introduction to Environmental Law 4 Units

(Formerly Environmental Studies 60.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Today's environmental careers demand proficiency in environmental law. Environmental law is a critical subject of study as it is one of the primary ways that we, as a society, create and establish environmental protections. Includes information regarding laws about land use, energy, natural resources, air, water, and hazardous materials and waste. Current events, citizen action and impacts on various cultural, ethnic, and gender groups will be discussed.

E S 50 Introduction to Pollution Prevention, Hazardous Waste, and Environmental Justice 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

What kind of effects do hazardous wastes have on our health and the health of the environment? How will California, with its increasing population, provide public leadership and innovative solutions regarding environmental justice, green chemistry, and other political, social, and environmental issues? These above topics will be explored with respect to pollution prevention and environmental statutes. Requirements and applications of federal, state and local laws and regulations relating to hazardous materials will be discussed. Cultural, ethnic, socioeconomic, and gender groups will be discussed in depth especially with respect to environmental injustice and racism.

E S 55 Ten Steps to Effective Learning in Environmental Studies 1 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

One hour lecture.

Effective learning strategies in environmental studies including energy management technology, conservation biology, environmental education, ecological restoration, watershed management, environmental law, and other related coursework. Effective learning strategies throughout all disciplines will be discussed. Students will prepare a personal 10-step learning strategies plan. Emphasis on strategies to enhance learning for all cultural, ethnic, and gender groups.

E S 56 Environmental Health and Justice 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Are you concerned about your health as well as the subject of environmental health and justice? Explores biological, chemical and physical environmental hazards to human health. Investigates laws and regulations concerning environmental exposure and the means to reduce human health risks. Current events, citizen action and impacts on cultural, ethnic, and gender groups will be discussed in general, and as they relate to environmental health and justice.

E S 58 Introduction to Green Building 1 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

One hour lecture.

An overview of strategies to implement a green building project within your organization. The strategies include model green building policy and guidelines including LEED (Leadership in Energy and Environmental Design), assembling a green team, assessing the impact of construction and buildings on society, and an overview of key stakeholders in the construction field.

E S 61A Environmental Protection and Pollution Prevention with Emphasis on Local and Regional Communities 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Environmental Studies 6 (may be taken concurrently).

Four hours lecture.

Explores environmental protection and pollution prevention with emphasis on local and regional communities. Topics discussed will include agency missions and guiding principles, agency philosophies, and agency contacts. Agencies participating include Cal/OSHA, County Toxics Enforcement, EPA, Bay Area Air Quality Management District. Environmental impacts on cultural, ethnic, and gender groups will be discussed.

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- E S 61B Environmental Protection and Pollution Prevention with Emphasis on the State and Federal Levels 4 Units**
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Environmental Studies 1 and 6 (Environmental Studies 60 may be taken concurrently).
Four hours lecture.
 Examines environmental protection and pollution prevention with emphasis on the state and federal levels. Topics discussed will include agency missions and guiding principles, agency philosophies, and agency contacts. for each of the following: California Department of Fish & Game, California Integrated Waste Management Board, California Energy Commission, California Department of Forestry, California Board of Mining and Reclamation, California Environmental Protection Agency, the U.S. Department of Agriculture, the U.S. Department of the Interior, U.S. Fish and Wildlife Service and local boards and commissions. Impacts on cultural, ethnic, and gender groups will be discussed.
- E S 62A Introduction to ISO 14001 and Sustainability Management Plans (SMP) 1 Unit**
Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
One hour lecture.
 Explores the emerging field of voluntary compliance of environmental regulation including sustainability management plans (SMP), in the U.S. and abroad. Assess ISO 14001, a voluntary environmental standard developed by the International Organization for Standardization (ISO), as a strategy to minimize an organization's environmental impact.
- E S 62B ISO 14001: Environmental Management Systems (EMS) and Sustainability Management Plans (SMP) 1 Unit**
Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
One hour lecture.
 The next step in ISO 14001 implementation is the development of an Environmental Management System (EMS) and Sustainability Management Plans (SMP). Explore a step-by-step approach, using a consensus-based model, to develop an ISO 14001 EMS and SMP.
- E S 62C ISO 14001: Integration of an Environmental Management System (EMS) and Sustainability Management Plan (SMP) 1 Unit**
Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
One hour lecture.
 Explores strategies and principles in the adoption, implementation and integration of an ISO 14001 Environmental Management System (EMS) and Sustainability Management Plan (SMP) for an organization including both internal and external stakeholders in environmental management.
- E S 62D ISO 14001: Voluntary Audit 1 Unit**
Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
One hour lecture.
 Explores strategies and procedures utilized in the process of voluntary audits of an ISO 14001 Environmental Management System (EMS) and a Sustainability Management Plan (SMP) by an organization.
- E S 63 Agenda 21: Blueprint for Sustainability 1 Unit**
One hour lecture.
 An overview of Agenda 21, an action plan to implement the principles and agreements of the Rio de Janeiro Summit in 1992, the largest-ever meeting of 179 nations. Examines the seven central themes of Agenda 21 to ensure that all people benefit by the implementation of it regardless of race, ethnicity or socioeconomic status.
- E S 64 AB 32 (CA Global Warming Solutions Act of 2006) 1 Unit**
One hour lecture.
 An overview of California's Global Warming Solutions Act of 2006, AB 32. The course also includes an overview of strategies to implement this act within an organization and a look at the reduction of greenhouse gas emissions (GHG) by three percent per year.
- E S 65 Environmental Stewardship 1 Unit**
Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
One hour lecture.
 Explores the role of environmental citizenship including personal responsibility and participation in local environmental case studies along the 37th parallel. Develop an understanding of environmental stewardship principles, including those of other cultural, ethnic and gender groups, and the use of such practices in establishing common ground for community-based decision-making.
- E S 66 Environmental Leadership 1 Unit**
Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
One hour lecture.
 Explores the role of environmental leadership in the 21st Century, including development and implementation of leadership skills and models. Apply those leadership skills and models developed to address local environmental case studies.
- E S 67 Environmental Team-Building 1 Unit**
Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
One hour lecture.
 Explores the concept of team-building in the 21st Century, including development and implementation of team-building skills and models. Apply those team-building skills and models developed to address local environmental case studies.
- E S 68 Community-Based Coalitions and Stakeholders 1 Unit**
Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
One hour lecture.
 Explores the concept of environmental community-based coalitions in the 21st Century, including identifying and integrating key stakeholders. Apply the community-based model of collaboration to address local environmental case studies.
- E S 69 Energy Reliability and Your Organization 1 Unit**
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
One hour lecture.
 An overview of strategies to assist in preparing an energy management action plan for your organization and staff. The strategies include model board policy, administrative guidelines, assembling an energy management action team, assessing the impact of energy policy on society, and an overview of key stakeholders in the energy field. (One out-of-class field trip may be required for this course.)
- E S 70 Introduction to Energy Management Technology 1 Unit**
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
One hour lecture.
 An overview of the field of Energy Management and its importance in today's society, including future implications, and discussion of careers and impact on modern culture and society. This module introduces the whole building concept and related energy and conservation issues including the building envelope, HVAC systems, lighting, energy management and controls and renewable energy technologies. (One out-of-class field trip may be required for this course.)
- E S 71 The Building Envelope 1 Unit**
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
One hour lecture.
 An introduction to the building shell as the primary physical component of any facility which controls energy flow between the interior and exterior of the building. The goal is to develop a qualitative and analytical understanding of the thermal performance of major building envelope components. Topics include walls, doors, glazing (windows), roofing and building skin as well as climatic responsive building design. (One out-of-class field trip may be required for this course.)
- E S 72 Heating, Ventilating and Air Conditioning (HVAC) Systems 1 Unit**
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
One hour lecture.
 An introduction to HVAC systems, the systems that provide heating, cooling, humidity control, filtration, and comfort control to facilities. Examines various HVAC systems and their interrelationship with other building systems. Students will consider HVAC technologies that can help facilities managers achieve the goals of lowering energy costs, becoming more environmentally friendly, and enhancing indoor air quality. (One out-of-class field trip may be required for this course.)
- E S 73 Electric Motors and Drives 1 Unit**
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
One hour lecture.
 Examines the opportunities for lowering energy consumption through energy-efficient motors and motor controls, including an introduction to the technology of high efficiency motors and variable frequency drives. Techniques to increase current carrying capacity, improve voltage to equipment, reduce power losses, and lower electric bills will be discussed. (One out-of-class field trip may be required for this course.)

E S 74 Lighting Distribution Systems 1 Unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

One hour lecture.

Provides an introduction to the fundamentals of lighting and energy management lighting techniques. Discusses the different types of lighting and day-lighting applications used in commercial and institutional buildings, while describing the quality and quantity of lighting needed for certain applications, measuring efficiency, color rendering, ballasts, etc. Lighting design that provides visual comfort at lower energy costs will be emphasized. (One out-of-class field trip may be required for this course.)

E S 75 Electric Power Systems 1 Unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

One hour lecture.

An introduction to electric power systems, focusing on distribution components such as transformers, switch-gear, distribution panels, and wiring. Power systems analysis, preventive maintenance, and record keeping techniques will be discussed. Emphasis will be placed on opportunities within a facility's distribution system to save energy, increase equipment life, and reduce unscheduled outages. (One out-of-class field trip may be required for this course.)

E S 76 Energy Star Products 1 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

One hour lecture.

An introduction to Energy Star products including high efficiency, high performance commercial, industrial and residential equipment and appliances that reduce energy consumption and save money.

E S 76A Solar Thermal Systems 1 Unit

(Formerly Environmental Studies 77.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

One hour lecture.

An overview of solar thermal systems including water heating technologies which reduce energy use to generate hot water including maintaining equipment and insulation, reducing hot water use and water temperatures, reducing heat losses from the system, and utilizing waste heat sources and renewable energy technologies, including solar.

E S 77X Special Projects in Environmental Studies 1 Unit**E S 77Y 2 Units****E S 77Z 3 Units**

Prerequisite: Consent of instructor and division dean.

Three hours laboratory for each unit of credit.

(Any combination of Environmental Studies 77X, 77Y and 77Z may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)

Individual research in environmental studies. Specific projects determined on consultation with the instructor. Outside reading and written report required.

E S 78 Energy Management Systems and Controls 1 Unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

One hour lecture.

Describes the most commonly used controls and energy management systems in commercial and institutional applications. Topics will include complex automatic systems for major energy-consuming equipment, as well as simple controls, including time clocks, occupancy sensors, photocells, and programmable thermostats. Computer-based energy management systems, as well as control systems to reduce peak electrical demand will be discussed. (One out-of-class field trip may be required for this course.)

E S 79 Renewable and Alternative Energy Systems 1 Unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

One hour lecture.

An introduction to the potential for renewable and alternative energy systems when adding power generation capacity for a site or large facility. Life-cycle cost comparisons between renewable energy systems and conventional power generation and the added potential of reducing peak power demand will be emphasized. Topics include photovoltaic power systems, wind energy systems, and fuel cells. (One out-of-class field trip may be required for this course.)

E S 80 California Field Studies 1 Unit**E S 80X 2 Units****E S 80Y 3 Units****E S 80Z 4 Units**

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or

English as a Second Language 272 and 273.

One hour lecture for each unit of credit.

Field observation of California's native plants and animals in aquatic and terrestrial ecosystems, with an emphasis on endangered, rare, protected and reintroduced species. The underlying social, economic and political issues associated with habitat and species loss will be discussed, as well as impacts on various cultural, ethnic and socioeconomic groups. (Off-campus field trips may be required.)

E S 85A California Native Plants and Animals 2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or

English as a Second Language 272 and 273.

Two hours lecture. (Field project required.)

Environmental education and interpretative methods focusing on the native plants and animals of California with an emphasis on local case studies and endangered species. Interpretive techniques utilized in environmental education will be reviewed. Prepares students to lead tours of the Cheeseman Environmental Study Area's outdoor lab. Teaching environmental education and interpretive techniques to various ethnic, cultural and socioeconomic groups will be explored.

E S 85B Cheeseman Environmental Study Area Interpretive Training and Other Docent Activities 2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or

English as a Second Language 272 and 273.

One hour lecture, three hours laboratory.

Interpretative techniques of environmental education and environmental outreach utilizing the Cheeseman Environmental Study Area outdoor lab and the Kirsch Center for Environmental Studies. Students will refine the techniques required for leading tours and interpreting California native plant and animal communities in the Environmental Study Area, as well as in any other outdoor settings. Students will lead tours through the Cheeseman Environmental Study Area and the Kirsch Center for Environmental Studies. Strategies for teaching environmental education and nature-based learning with various cultural, ethnic and socio-economic groups will also be explored. (Off-campus field trips are required for this course.)

E S 86 Global Field Studies 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or

English as a Second Language 272 and 273.

Four hours lecture.

Field observation of the native plants and animals of aquatic and terrestrial ecosystems of various natural areas worldwide, including tropical regions of the Americas, with an emphasis on endangered, rare, protected and reintroduced species. Social, economic and political issues associated with habitat and species loss as well as the impacts on cultural, ethnic and socioeconomic groups will be explored. (Field trip required. Note that this field studies class may require a trip abroad.)

E S 90 Environmental Research and Field Methods 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or

English as a Second Language 272 and 273.

Four hours lecture.

Explores the various methods used to conduct research and field studies on environmental topics. Application of legal policy and field research principles and techniques, including review of local case studies. Preparation of press releases, reports on current environmental issues, persuasive oral advocacy of environmental topics and case law research.

E S 91X Environmental Education and Nature Based Learning 2 Units**E S 91Z 4 Units**

(Formerly Environmental Studies 100X and 100Z respectively.)

Credit course - Does not apply to De Anza Associate degree.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or

English as a Second Language 272 and 273.

One hour lecture for each unit of credit.

Environmental education for educators emphasizing environmental and ecological concepts, nature-based learning and other curricula, interpretive techniques, development of classroom lesson plans, a review of field trip sites and other resources available to educators. The Cheeseman Environmental Studies Area and local field trip sites will be explored. Teaching environmental curricula to various cultural, ethnic and socioeconomic groups will be discussed. (Local field trips may be required.)

E S 93 Sustainability Across the Curriculum 1 Unit

One hour lecture.

An overview of strategies needed to implement sustainability courses across the curriculum in academic institutions utilizing the seven central themes of Agenda 21. The critical role of education and educators in communicating the link between human and planetary health and in building a sustainable society will be examined.

E S 95 Introduction to Environmental Careers 1 Unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

One hour lecture.

Learn about saving the planet through environmental careers, including ecosystem management, restoration ecology, corridors ecology, energy management technology, environmental stewardship, environmental education, watershed management, environmental law, pollution prevention and more. Opportunities for internships and employment in business, industry, public agencies, academia and nonprofit agencies will be explored. Students will prepare an academic plan for their two- or four-year degree, certificate or workplace.

E S 95A Environmental Studies Internship 1 Unit**E S 95B 2 Units****E S 95C 3 Units****E S 95D 4 Units**

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

One hour lecture for each unit of credit.

A work experience internship seminar. The seminar will prepare student interns for internships in business, industry or government related to the student's field of study. The internship must occur during the last year of study prior to completion of a degree or certificate program.

Film and Television Production

F/TV 1 Introduction to Film 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as English Literature 1. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

An introduction to the international art of cinema through the techniques and procedures of filmmaking, including screenwriting, cinematography, directing, editing, and sound; through the formal properties of film, such as mise-en-scene, structure, and style; through the relationships between film and society, and through the critical analysis of works of film art.

F/TV 2A History of Cinema (1895-1950) 4 Units**F/TV 2AW 4 1/2 Units**

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Student may enroll in either Film/Television 2A or Film/Television 2AW, but not both, for credit.)

One hour lecture for each unit of credit.

A survey of the international development of the motion picture to 1950 as a distinct form of artistic expression, through classic films, notable artists, and key events; an investigation of the aesthetic, technological, economic, and social factors that contributed to the evolution of film; an examination of the value systems reflected in and shaped by these works from diverse cultures. Film/Television 2AW will cover expanded topics in historiography, such as problems and approaches to historical film research and analysis.

F/TV 2B History of Cinema (1950-Present) 4 Units**F/TV 2BW 4 1/2 Units**

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Student may enroll in either Film/Television 2B or Film/Television 2BW, but not both, for credit.)

One hour lecture for each unit of credit.

A survey of the international development of the motion picture since 1950 as a distinct form of artistic expression, through classic films, notable artists, and key events; an investigation of the aesthetic, technological, economic, and social factors that contributed to the evolution of film; an examination of the value systems reflected in and shaped by these works from diverse cultures. Film/Television 2BW will cover expanded topics in historiography, such as problems and approaches to historical film research and analysis.

F/TV 10 Introduction to Electronic Media 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Humanities 17. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

A survey course of the history, aesthetics, technology and social impacts of electronic media, including film, broadcasting and the Internet. Explores the role of government, advertising, audiences, and emerging technologies, their futures and impacts on global societies.

F/TV 20 Basic Digital Film/Video Production 4 Units

Corequisite: Film/Television 20 students must also enroll in Film/Television 54, 54X, 54Y or 54Z.

Three hours lecture, two hours lecture-laboratory.

Digital video production, film-style production techniques including mini-DV and HD formats: camera operation and procedures, basic principles and techniques of sound and scriptwriting; and film and nonlinear editing.

F/TV 22 16mm Film Production I 4 Units

Prerequisite: Film/Television 20.

Corequisite: Film/Television 22 students must also enroll in Film/Television 54, 54X, 54Y or 54Z.

Three hours lecture, two hours lecture-laboratory.

Logistics, scriptwriting, sound recording, film and sound editing. Methods by which visual and aural elements of a motion picture may be organized. The study and analysis of exemplary motion pictures as well as of the student's own work.

F/TV 41 Film Genres 4 Units

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as English Literature 3. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

(Any combination of Film/Television 41 and English Literature 3 may be taken up to three times for credit as long as the topic matter is different each time.)

Analysis of specific film genres such as action-adventure, comedy, film noir, gangster, horror, musical, science fiction, thriller, war film or western within global, historical, social, cultural, industrial and aesthetic contexts. The genre studied changes each quarter (see subtitle in the quarterly schedule of classes).

F/TV 42 National Cinemas 4 Units

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as English Literature 4. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

(Any combination of Film/Television 42 and English Literature 4 may be taken up to three times for credit as long as the topic matter is different each time.)

Analysis of selected national cinemas in terms of major periods, themes and formal parameters, and in relation to both national and international cultural histories. The national cinema studied changes each quarter (see subtitle in the quarterly schedule of classes).

F/TV 43 Film Artists 4 Units

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as English Literature 5. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

(Any combination of Film/Television 43 and English Literature 5 may be taken up to three times for credit as long as the topic matter is different each time.)

Analysis of the works of specific film artists, such as directors, Alfred Hitchcock or Orson Welles; or analysis of the works of artists practicing a specific film craft, such as screenwriting, acting, cinematography or editing. The topic studied changes each quarter (see subtitle in the quarterly schedule of classes).

F/TV 45 History of Experimental Film/Video 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

History and development of experimental film/video; origins in European experimental cinema, American underground film, avant-garde painting, sculpture, music and theater. Evolution of experimental video and electronic developments.

F/TV 48 Cinema and the African American (An Historical Analysis of African Americans in American Cinema) 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Intercultural Studies 14 and English Literature 6. Student may enroll in only one department for credit.)

Four hours lecture.

A survey of the image and role of the American film industry. Particular attention will be given to the development of images of racial stereotypes, those works attempting a historical portrayal of the African American experience and the roles played by key African Americans in the evolution of film as an art and feature films as an industry in the United States.

F/TV 50 Introduction to Film/ Television Directing 4 Units

Prerequisite: Film/Television 20.

Corequisite: Film/Television 50 students must also enroll in Film/Television 54, 54X, 54Y or 54Z.

Three hours lecture, two hours lecture-laboratory.

Development and execution of short, single-camera-style projects focusing on the skills of directing and editing.

F/TV 51A Intermediate Digital Film and Video Production 4 Units

Prerequisite: Film/Television 20.

Corequisite: Film/Television 51A students must also enroll in Film/Television 54, 54X, 54Y or 54Z.

Three hours lecture, two hours lecture laboratory.

Principles of digital video in the preproduction and production of a short project using cameras, lighting and sound equipment and post production digital editing.

F/TV 52A 16mm Film Production II 4 Units

Prerequisite: Film/Television 22.

Corequisite: Film/Television 52A students must also enroll in Film/Television 54, 54X, 54Y or 54Z.

Three hours lecture, three hours laboratory.

Advanced sound film editing, laboratory procedures, interior and exterior lighting techniques, color cinematography. Emphasis on individual student projects.

F/TV 52B 16mm Film Production III 4 Units

Prerequisite: Film/Television 22 and 52A.

Corequisite: Film/Television 52B students must also enroll in Film/Television 54, 54X, 54Y or 54Z.

Three hours lecture, three hours laboratory.

(May be taken two times for credit as long as the topics are different each time.)

Advanced production and post-production techniques, including sync-sound production and editing, music editing, preparing for the sound mix. Emphasis on individual projects.

F/TV 53 Non-Linear Editing 4 Units

Prerequisite: Film/Television 20.

Corequisite: Film/Television 53 students must also enroll in Film/Television 54, 54X, 54Y or 54Z.

Three hours lecture, two hours lecture-laboratory.

Concepts and techniques of non-linear digital film and video editing, including organization of the editing process, working the timeline and audio editing, with emphasis on the principles and aesthetics of film and video editing.

F/TV 54 Film/Television Production Laboratory 1/2 Unit

F/TV 54X 1 Unit

F/TV 54Y 2 Units

F/TV 54Z 3 Units

Corequisite: Film/Television 54, 54X, 54Y and 54Z students must also enroll in Film/Television 20 or any other Film/Television production course.

Three hours laboratory for each unit of credit.

(Any combination of Film/Television 54, 54X, 54Y and 54Z may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.)

Instruction in the use of film and television laboratory equipment and facilities to fulfill assigned projects in other film and television production courses.

F/TV 55A Video Studio Production 4 Units

Advisory: English Writing 1A or English as a Second Language 5.

Three hours lecture, three hours laboratory.

An introduction to multi-camera television studio production, the basic procedures and techniques, with emphasis on camera, audio, graphics, scripting, directing and producing.

F/TV 57A Nonfiction Workshop I: The Documentary 4 Units

Prerequisite: Film/Television 20.

Corequisite: Film/Television 57A students must also enroll in Film/Television 54, 54X, 54Y or 54Z.

Three hours lecture, two hours lecture-laboratory.

Nonfiction concepts, principles, and techniques as related to the production of a documentary video. Examination of the historical roots in nonfiction film and television. Emphasis on production work in documentary programs.

F/TV 57B Nonfiction Workshop II: The Documentary 4 Units

Prerequisite: Film/Television 57A.

Corequisite: Film/Television 57B students must also enroll in Film/Television 54, 54X, 54Y or 54Z.

Three hours lecture, two hours lecture-laboratory.

Advanced techniques in non-fiction film and television, including cinematography, sound, lighting, post-production editing, and directing. Analysis of the modern film and television documentary. Emphasis on production of a documentary video.

F/TV 58R Film/Television Production Workshop 1/2 Unit

F/TV 58S 1 Unit

F/TV 58T 2 Units

F/TV 58U 3 Units

F/TV 58V 4 Units

F/TV 58W 5 Units

F/TV 58X 6 Units

F/TV 58Y 7 Units

F/TV 58Z 8 Units

Prerequisite: Film/Television 20.

Two hours lecture-laboratory for each unit of credit.

(Any combination of Film/Television 58R-Z may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.)

A workshop in film or video production in which the student works independently, or with a crew, to produce a film or video to refine skills in camera, lighting, directing, post-production, and other related skills. The number of units is dependent on the production.

F/TV 59 Role of the Media Producer 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent; Film/Television 20 or 55A.

Four hours lecture.

Roles and responsibilities of the media producer. Skills and knowledge required in developing a production proposal; including development, audience analysis, location scouting, production schedule, and budgeting.

F/TV 60A Scriptwriting for Film and Video I 4 Units

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Introduction to scriptwriting for film and video; the role of the script in media production; format and structure in the script; the basic skills of scriptwriting for fiction and nonfiction.

F/TV 60B Scriptwriting for Film and Video II 4 Units

Prerequisite: Film/Television 60A.

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Intermediate course in scriptwriting for fiction and nonfiction film and video projects; examination of structure and characterization in dramatic narrative; consideration of approach and structure in nonfiction; emphasis on development and revision of script projects.

F/TV 60C Scriptwriting for Film and Video III 4 Units

Prerequisite: Film/Television 60B.

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Advanced course in scriptwriting for fiction and non-fiction film and video projects; examination of classical and experimental structures in fiction and non-fiction; further practice in the development and revision of script projects.

F/TV 61 TV Scriptwriting for Training and Communications 4 Units

Prerequisite: Film/Television 60A.

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Scriptwriting for business and institutional film and video; structure, format, and elements of programs for information, training, marketing, and corporate communication.

F/TV 62 Lighting for Film and Television 4 Units

Three hours lecture, two hours lecture-laboratory.

Introduction to the basic principles of studio and location lighting for film, television, animated, and composited production. Focus on evaluation of the aesthetic style and techniques of media lighting in professional production. An analysis and application of basic electricity, lighting instruments, dimming equipment, light color, media, and gaffer equipment. Practical experience in film and television productions.

F/TV 63A Location Recording and Sound Design 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours lecture, two hours lecture-laboratory.

Study of the art and techniques of film, video and media audio recording. Emphasis on preproduction and production in studio and on location. Examines the aesthetics of design and the technologies of analog and digital audio, and manipulation of sound in the aural and recorded environment. Practical experience in audio production.

F/TV 63B Audio Post Production 3 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours lecture, two hours lecture-laboratory.

Concepts and techniques of audio post production for film and video, including nonlinear audio editing, sound effect scoring, foley, cutting sound to picture and mixing.

F/TV 64A	Fiction Screenwriting I	4 Units	F/TV 69	Principles of Animation: Character and Motion	3 Units
<i>Prerequisite: Film/Television 60B or 60C.</i>			<i>Two hours lecture, two hours lecture-laboratory.</i>		
<i>Advisory: English Writing 1A or English as a Second Language 5.</i>			Investigation of the fundamental principles of movement and timing when animating characters or objects, progressing from simple to complex motion. Experience in creating character weight, power and emotion; portraying the forces of nature in "effects" animation and manipulating the quality of the line and the image. Close analysis of the animation technique in exemplary professional films.		
<i>Four hours lecture.</i>					
F/TV 64B	Fiction Screenwriting II	4 Units	F/TV 70G	Screenwriting for Animation	4 Units
<i>Prerequisite: Film/Television 64A.</i>			<i>Advisory: English Writing 1A or English as a Second Language 5; Film/Television 66 and/or 69.</i>		
<i>Advisory: English Writing 1A or English as a Second Language 5.</i>			<i>Four hours lecture.</i>		
<i>Four hours lecture.</i>			Conceptual development and scriptwriting for animated film. Contrast of the role of the treatment and the script in animation to that in live-action production. Comparison of screenplay formats for television, feature films and short forms. Examination of structure and characterization in dramatic narrative. Investigation of methodology and structure in nonfiction forms of animation.		
F/TV 64C	Fiction Screenwriting III	4 Units	F/TV 70H	The Animation Storyboard	3 Units
<i>Prerequisite: Film/Television 64B.</i>			<i>(Formerly Film/Television 70.)</i>		
<i>Advisory: English Writing 1A or English as a Second Language 5.</i>			<i>Advisory: Film/Television 66 and/or 69.</i>		
<i>Four hours lecture.</i>			<i>Two hours lecture, two hours lecture-laboratory.</i>		
An intensive workshop in the re-writing of feature-length fiction screenplays; strengthening the plot, character development, arcs, turning points and journeys; preparing the material for submission to the marketplace; pitching and strategies in breaking into the entertainment industry will be discussed.			Methods of planning and designing animated films using the storyboard technique. Focus on translating concepts into visuals, selecting camera angles and choosing editing style. Exploration of animation's unique cinematic vocabulary and its potential for personal expression, social advocacy and/or literary adaptation.		
F/TV 65	Current Practices in the Film/Video Profession	4 Units	F/TV 71	Animated Film Production Workshop	3 Units
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i>			<i>Prerequisite: Film/Television 66A, 69, 84A or consent of instructor.</i>		
<i>Four hours lecture.</i>			<i>Two hours lecture, two hours lecture-laboratory.</i>		
Current creative, technical, economic, and employment conditions in film and video as seen by working professionals.			<i>(Film/Television 71 may be taken up to six times, not to exceed 18 units, as long as the course content is different each time.)</i>		
F/TV 66A	Basic Techniques of Animation: 3D Media	3 Units	Practice in refinement of animation motion design and timing. Development of initial concept stages for a short personal film in any style of animation (e.g. drawn), stop-motion or computer, suitable for public screening, including Creation of storyboards, character models, soundtracks and motion tests. Course content and lecture-demonstration material are driven by student projects and change completely each quarter.		
<i>(Formerly Film/Television 66.)</i>			F/TV 72	Advanced Animation Workshop	3 Units
<i>Two hours lecture, two hours lecture-laboratory.</i>			<i>Prerequisite: Film/Television 71.</i>		
An exploration of the techniques of three-dimensional stop-motion and non-cel animation, as applied to a variety of art media (puppet, clay, pixillation, shadow puppets and other under-camera art media). Principles of movement and timing, lighting and cinematography, and multiplane dimensionality, with application to both computer and traditional drawn animation.			<i>Two hours lecture, two hours lecture-laboratory.</i>		
F/TV 67G	Drawing for Animation: Human Figure	3 Units	<i>(Film/Television 72 may be taken up to six times, not to exceed 18 units, as long as the course content is different each time.)</i>		
<i>Prerequisite: Film/Television 69 (may be taken concurrently).</i>			Creation of visual and audio elements for production of a personal film in any style of animation (e.g. drawn), stop-motion or computer, which can serve both as the student's diploma film and as a professional portfolio piece. Investigation of career options and marketing strategies as they pertain to each project. Formulation of portfolios and demo reels. Course content and lecture-demonstration material are driven by student projects and change completely each quarter.		
<i>Two hours lecture, three hours laboratory.</i>			F/TV 73	Animation Production Laboratory	1/2 Unit
Life drawing workshop, designed specifically for animators for study of staging, posing, movement, drapery and character design. Exercises include quick gesture drawings, silhouette form composition, constructive drawings techniques, multiple-pose memory sketches and analysis of action to determine key and breakdown drawings. Emphasis on rendering anatomical details of heads and hands and on keeping character volume consistent when drawn from a variety of angles.			F/TV 73X		1 Unit
F/TV 67H	Drawing for Animation: Animal Expression	3 Units	F/TV 73Y		2 Units
<i>Prerequisite: Film/Television 69 (may be taken concurrently).</i>			F/TV 73Z		3 Units
<i>Two hours lecture, three hours laboratory.</i>			<i>Corequisite: Film/Television 73, 73X, 73Y and 73Z students must also enroll in an animation production course.</i>		
Drawing workshop, designed specifically for animators and focusing on animals, birds, insects and objects as anthropomorphic characters. Exercises include quick gesture drawings, silhouette form composition, constructive drawing technique and fast-pose memory sketches from live models and reference film. Design and construction of model sheets for both realistic and stylized characters. Analysis of comparative anatomy and locomotion.			<i>Three hours laboratory for each unit of credit.</i>		
F/TV 67I	Drawing for Animation: Layout and Visual Development	3 Units	<i>(Any combination of Film/Television 73, 73X, 73Y and 73Z may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.)</i>		
<i>Prerequisite: Film/Television 70H.</i>			Supervised use of film and television laboratory equipment and facilities to fulfill assigned projects in other animation production courses.		
<i>Two hours lecture, three hours laboratory.</i>			F/TV 75G	History of Animation	4 Units
Drawing and art direction workshop for animators, concentrating on expanding storyboards into full layouts. Development of visual style for an animated film production. Design of props and backgrounds, utilizing one-point, two-point and three-point perspective, and including simulation of elaborate camera movements. Drawn representation of telephoto or wide-angle lens perspective and depth of field.			<i>(See general education pages for the requirement this course meets.)</i>		
F/TV 68	Sound for Animation	3 Units	<i>Advisory: English Writing 1A or English as a Second Language 5.</i>		
<i>Two hours lecture, two hours lecture-laboratory.</i>			<i>Four hours lecture.</i>		
Principles of soundtrack design to accompany the unique properties of the animated image. Aesthetics and techniques of film music. Recording, editing and mixing of voice, music and sound effects using location, studio and library sources. Methods of lip-synched character dialogue, musical synchronization to animation, and sound effects ambiances.			An international survey of the historical development of the animated film, from its pre-cinema origins to a contemporary art form, with emphasis on the contributions of major studios, including Bray, Sullivan, Fleischer, Disney, Warner Brothers, UPA, Zagreb, Shanghai, the Canadian Film Board and England's Channel Four, as well as many works by important independent artists. Close analysis of social messages, historical significance and exemplary artistic technique.		
			F/TV 75H	Classic Hollywood Animation	4 Units
			<i>Advisory: English Writing 1A or English as a Second Language 5.</i>		
			<i>Four hours lecture.</i>		
			An exploration of films produced by major American animation studios during their Golden Age (1933-1948), analyzing their development of narrative form and perfection of animation technique. Appraisal of the films' controversial social content regarding race, gender and international politics. Studios include Disney, Fleischer, Warner Brothers, M-G-M, Columbia, Lantz, Terry and the George Pal Puppets.		

F/TV 75I Contemporary World Animation 4 Units

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

A survey of international animation from 1970 to the present, concentrating on England, Canada, Eastern Europe, Japan, China and other animation centers, including many masterworks never released in North America. Emphasis on short films created by independent artists in art media ranging from traditional hand-drawn to puppets, cutouts, clay and computer. Close analysis of social messages, historical significance and exemplary artistic technique.

F/TV 75J The Animated Feature Film 4 Units

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

A survey of the evolution of the full-length animated film from its origins in the silent cinema to the present, including rare masterworks. Emphasis on hand-drawn, puppet and computer creations from England, France, Russia, Czechoslovakia and Japan, as well as Hollywood and the San Francisco Bay Area. Close analysis of social messages, historical significance and exemplary artistic technique.

F/TV 75K Japanese Animation 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

An examination of the post-1960s evolution of animated films in Japan, a national cinema famed for its exciting range of subject matter and outstanding graphics. Screening of exemplary and influential works by distinguished artists, writing collectives and production studios. Close analysis of social content, reflections of history, adaptations of literature and artistic technique.

F/TV 77X Animation History Area Studies 1 Unit**F/TV 77Y 2 Units**

(Formerly Film/Television 87X and 87Y respectively.)

Credit course - Does not apply to De Anza Associate degree.

Advisory: English Writing 1A or English as a Second Language 5.

One hour lecture for each unit of credit.

(Any combination of Film/Television 77X and 77Y may be taken up to six times as long as the topics are different each time.)

Concentrated investigation of an influential animated film director, studio, genre, movement, national cinema, historical period or applied technique. The topic studied is different for each section of this course (e.g. Aardman and the U.K., Disney, the Canadian Film Board, Bay Area Animation, the Animated Documentary or visiting animators).

F/TV 78 Special Topics in Film Studies 1/2 Unit**F/TV 78W 1 Unit****F/TV 78X 2 Units**

(Formerly Film/Television 76, 76W and 76X respectively.)

Advisory: English Writing 1A or English as a Second Language 5.

One hour lecture for each unit of credit.

(Any combination of Film/Television 78, 78W and 78X may be taken up to six times for credit as long as topics are different each time.)

Concentrated investigation of an influential film artist, studio, national cinema, genre, movement, or historical period. The topic studied is different for each section of this course and may include Bay Area film festival and nonprofit-organization screenings and events (see course note in the quarterly schedule of classes).

F/TV 79G Workshop with Professional Traditional Animator 3 Units

Two hours lecture, two hours lecture-laboratory.

(Any combination of Film/Television 79G and 79H may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.)

Intensive workshop in a specialized area of drawn or puppet animation production (e.g. writing, storyboard, layout, fabrication, lighting, motion design, soundtrack construction, etc.) with an instructor with full-time experience on feature films or national television commercials at a major Bay Area animation studio (Industrial Light & Magic, Wild Brain, Twitching Image/Skellington, Phil Tippett Studios, etc.) Repeatable as instructors, topics and/or student productions vary.

F/TV 79H Workshop with Professional Computer Animator 3 Units

Two hours lecture, two hours lecture-laboratory.

(Any combination of Film/Television 79G and 79H may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.)

Intensive workshop in a specialized area of computer animation production (e.g. character/prop modeling, texturing, lighting, skeletal articulation; animation, special visual effects or compositing techniques) with an instructor with full-time experience on feature films or national television commercials at a major Bay Area animation studio (Industrial Light & Magic, Pixar, PDI/Dreamworks, Wild Brain, Phil Tippett, Electronic Arts, etc.). Repeatable as instructors, software, topics and/or student productions vary.

F/TV 80A Theory and Technique of Acting for the Camera 3 Units

(Formerly Film/Television 86A.)

Prerequisite: Theatre Arts 20A.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Theatre Arts 80A. Student may enroll in either department, but not both, for credit.)

Six hours lecture-laboratory.

(Any combination of Film/Television 80A and Theatre Arts 80A may be taken two times for credit as long as the topics/projects are different each time.)

The basic fundamentals of acting for the camera are explored. Exercises, demonstrations and improvisations are used to practice the techniques of acting. Scenes are rehearsed, taped and critiqued.

F/TV 80B Theory and Technique of Advanced Acting for the Camera 3 Units

(Formerly Film/Television 86B.)

Prerequisite: Theatre Arts 80A or Film/Television 80A.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Theatre Arts 80B. Student may enroll in either department, but not both, for credit.)

Six hours lecture-laboratory.

(Any combination of Film/Television 80B and Theatre Arts 80B may be taken two times for credit as long as the topics/projects are different each time.)

A continuation of Acting for the Camera through further exploration of equipment used in media performance: blue screen acting, ear prompting, teleprompting and microphone applications in voice recording and voice over. Continued exploration and skill building of techniques used in performance before the camera including but not limited to advanced character development, make-up techniques and special problems in character preparation for feature film.

F/TV 80G Independent Projects in Animation 2 Units

Prerequisite: Consent of Animation Program Director.

Four hours lecture-laboratory.

(Film/Television 80G may be taken up to six times for credit as long as the project or the stage of film production are different each time.)

Advanced individual and group creative projects in animation production or animation history.

F/TV 81 Seminar in Animation Production Topics 1/2 Unit**F/TV 81X 1 Unit****F/TV 81Y 2 Units****F/TV 81Z 3 Units**

Two hours lecture-laboratory for each unit of credit.

(Any combination of Film/Television 81, 81X, 81Y and 81Z may be taken up to six times, not to exceed 18 units, as long as the topics are different each time.)

Intensive workshop in a specialized area of animation production (e.g. puppet animation, gesture drawing, special visual effects, the role of the producer, advanced computer techniques).

F/TV 83A Introduction to 2D Computer Animation 3 Units

Prerequisite: Film/Television 66A or 69 (either may be taken concurrently).

Two hours lecture, three hours laboratory.

(Film/Television 83A may be repeated only if the Animation program switches to a different software. No combination of Film/Television 83A and 83B may be taken more than four times or exceed 16 units.)

Utilization of the computer in the creation of two-dimensional animation with application to educational CD-ROMs, video games, television or the Internet. Strengths and limitations compared to traditional animation techniques. Concentration on methods of creating sequences of character movement in the drawn image, timing soundtracks for synchronization, constructing storyboard reels, and adding color and texture to artwork.

F/TV 83B Advanced 2D Computer Animation 4 Units

Prerequisite: Film/Television 83A.

Three hours lecture, three hours laboratory.

(Film/Television 83B may be repeated only if the Animation program switches to a different software. No combination of Film/Television 83A and 83B may be taken more than four times or exceed 16 units.)

Deployment of computer software in the production of professional narrative drawn animation, such as feature films or television series. Emphasis on digitizing and layering imagery, designing simple and complex movements of the virtual camera, and employing digital coloring techniques in lieu of traditional cel inking and painting.

F/TV 84A Introduction to 3D Computer Animation 4 Units*Prerequisite: Film/Television 83A.**Three hours lecture, three hours laboratory.**(Any combination of Film/Television 84A, 84B and 84C may be taken up to six times, not to exceed 18 units, for the family of courses as long as the Animation program switches to a different software.)**Orientation to the concepts and production process of three-dimensional (3D) computer animation. Introduction to the software interface, to basic design and construction of computer models, and to fundamentals of texturing, lighting and rendering, culminating in the creation of 3D cinematic stills.***F/TV 84B Intermediate 3D Computer Animation 4 Units***Prerequisite: Film/Television 84A.**Three hours lecture, three hours laboratory.**(Any combination of Film/Television 84A, 84B and 84C may be taken up to six times, not to exceed 18 units, for the family of courses as long as the Animation program switches to a different software.)**Application of the classic principles of traditional animation regarding movement and timing to computer animation. Digital motion design in a professional software program via techniques such as keyframing, motion path animation and shape blending. Fundamentals of rigging models for expressive movement, including introduction to forward and inverse kinematics. Principles of simulated cinematography and visual aesthetics.***F/TV 84C Advanced 3D Computer Animation 4 Units***Prerequisite: Film/Television 84B.**Three hours lecture, three hours laboratory.**(Any combination of Film/Television 84A, 84B and 84C may be taken up to six times, not to exceed 18 units, for the family of courses as long as the Animation program switches to a different software.)**Utilization of sophisticated professional computer programs to produce individual or collaborative animated projects with increasingly complex character models, animated movements, lighting schemes and visual effects. Exploration of advanced computer animation procedures, such as particle systems, or digital compositing, including the use of complementary software.***F/TV 85 Motion Graphics 3 Units***Prerequisite: Arts 55B.**(Also listed as Arts 85. Student may enroll in either department, but not both, for credit.)**Six hours lecture-laboratory.**The analysis and interpretation of the arts and design involved in the production of "on-the-air" graphic design. The creative integration of "type" and "image" in motion is stressed through the use of directed laboratory exercises. Software used includes Adobe Photoshop, Adobe Premier, Macromedia FreeHand, Macromedia Director, Macromedia Flash.***F/TV 92 Topics: Guest Artist/ Industry Professional 1/2 Unit***One and one-half hours lecture-laboratory.**(May be taken up to six times for credit as long as the topics are different each time.)**The investigation of techniques and procedures utilized by a guest artist for the production and development of their work. Concepts, theory, and practice pertaining to the specific topic as predetermined by the guest artist or industry professional.***F/TV 95A Contemporary World Cinema 4 Units**
F/TV 95AW 4 1/2 Units*(See general education pages for the requirement this course meets.)**Advisory: English Writing 1A or English as a Second Language 5.**One hour lecture for each unit of credit.**(Student may enroll in either Film/Television 95A or 95AW, but not both for credit.)**Critical survey of contemporary world cinema as art, business, technology and cultural artifact. Provides critical methodology and practical tools for analyzing and interpreting the work of notable film artists, current international film movements and genres, and transnational and globalized media developments.***F/TV 98G Fiction Workshop (The Writer, Producer, Director) 3 Units***Prerequisite: Film/Television 20.**Six hours lecture-laboratory.**(Any combination of Film/Television 98G, 98H and 98J may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.)**Advanced workshop in the writing, producing or directing of complex scenes or multiple scene works of narrative/dramatic film or video.***F/TV 98H Fiction Workshop (The Technical Crew) 3 Units***Prerequisite: Film/Television 20.**Six hours lecture-laboratory.**(Any combination of Film/Television 98G, 98H and 98J may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.)**Advanced workshop in cinematography, art direction, sound recording, and other techniques and craft skills essential to the production of narrative/dramatic film and video projects.***F/TV 98J Fiction Workshop (Editing/Post Production) 3 Units***Prerequisite: Film/Television 20.**Six hours lecture-laboratory.**(Any combination of Film/Television 98G, 98H and 98J may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.)**Advanced workshop in the post-production phase including elements of picture and sound editing and sound mixing for narrative/dramatic film and video projects.*

French

FREN 1 Elementary French (First Quarter) 5 Units*(See general education pages for the requirement this course meets.)**Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.**Five hours lecture.**Introduction to the language and cultures of the French-speaking countries. Basic speaking, listening, reading and writing of French will be introduced and practiced within a cultural framework. Emphasis will be on language as an expression of culture. Language laboratory practice to reinforce pronunciation, grammar and syntax.***FREN 2 Elementary French (Second Quarter) 5 Units***(See general education pages for the requirement this course meets.)**Prerequisite: French 1 (equivalent to one year of high school French) or equivalent.**Five hours lecture.**Further development of material presented in French 1. Continuation of introduction to the language and cultures of the French-speaking countries. Basic speaking, listening, reading and writing of French will be introduced and practiced within a cultural framework. Emphasis will be on language as an expression of culture. Language laboratory practice to reinforce pronunciation, grammar and syntax.***FREN 3 Elementary French (Third Quarter) 5 Units***(See general education pages for the requirement this course meets.)**Prerequisite: French 2 (equivalent to two years of high school French) or equivalent.**Five hours lecture.**Further development of material presented in French 1 and French 2. Completion of introduction to the language and cultures of the French-speaking countries. Basic speaking, listening, reading and writing of French will be introduced and practiced within a cultural framework. Emphasis will be on language as an expression of culture. Language laboratory practice to reinforce pronunciation, grammar and syntax.***FREN 4 Intermediate French (First Quarter) 5 Units***(See general education pages for the requirement this course meets.)**Prerequisite: French 3 (equivalent to three years of high school French) or equivalent.**Five hours lecture.**Reading and discussion of texts dealing with the literature, arts, geography, history and culture of the French-speaking world. Review of the linguistic functions and grammar structures of first-year French. Development of reading, writing, speaking and listening skills at the first intermediate level.***FREN 5 Intermediate French (Second Quarter) 5 Units***(See general education pages for the requirement this course meets.)**Prerequisite: French 4 (equivalent to four years of high school French) or equivalent.**Five hours lecture.**Reading and discussion of texts dealing with the literature, arts, geography, history and culture of the French-speaking world. Review of the linguistic functions and grammar structures of first-year French. Development of reading, writing, speaking and listening skills at the second intermediate level.***FREN 6 Intermediate French (Third Quarter) 5 Units***(See general education pages for the requirement this course meets.)**Prerequisite: French 5 or equivalent.**Five hours lecture.**Reading and discussion of texts dealing with the literature, arts, geography, history and culture of the French-speaking world. Review of the linguistic functions and grammar structures of first-year French. Development of reading, writing, speaking and listening skills at the third intermediate level.*

FREN 10 Intensive French (First Year) 15 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Fifteen hours lecture.

Development and practice of skills for oral and written communication supported by essentials of grammar, syntax, vocabulary and pronunciation. Language of instruction is primarily French.

FREN 13A French - Intermediate Conversation (First Quarter) 3 Units

Prerequisite: French 3 (equivalent to three years of high school French) or equivalent.

Three hours lecture.

Review and development of conversational skills in the targeted functions studied in first-year French with attention to fluency, vocabulary, idiom, and pronunciation. Practice in conversational exchanges and strategies at the fourth-quarter level. Discussion of culturally relevant topics and situations.

FREN 13B French - Intermediate Conversation (Second Quarter) 3 Units

Prerequisite: French 4 (equivalent to four years of high school French); or French 13A; or equivalent.

Three hours lecture.

Continued practice and development of conversational skills in the targeted functions studied in French 13A with increased attention to fluency, vocabulary, idiom, and pronunciation. Practice in conversational exchanges and strategies emphasizing improvisational skills at the fifth-quarter level. Discussion of culturally relevant topics and situations.

FREN 13C French - Advanced Conversation 3 Units

Prerequisite: French 5 or 13B or equivalent.

Three hours lecture.

Continued practice and development of conversational skills in the targeted functions studied in French 13A and 13B, with greater communicative competence. Increased control of conversational exchanges and strategies at the sixth-quarter level. Discussion of culturally relevant topics and situations.

FREN 60A French - Introductory Conversation (First Quarter) 3 Units

(Formerly French 90A.)

Three hours lecture.

A practical course in the French language, approached by intensive drills in the patterns and idioms of daily speech supported by sufficient grammar to give flexibility in the spoken language.

FREN 60B French - Introductory Conversation (Second Quarter) 3 Units

(Formerly French 90B.)

Prerequisite: French 60A.

Three hours lecture.

Further development of material presented in French 60A. Continuation of intensive drills in the patterns of idioms of daily speech at the second-quarter level.

FREN 60C French - Introductory Conversation (Third Quarter) 3 Units

(Formerly French 90C.)

Prerequisite: French 60B.

Three hours lecture.

Further development of material presented in French 60A and 60B. Continuation of intensive drills in the patterns of idioms of daily speech at the third-quarter level.

FREN 77 Special Projects in French 1 Unit**FREN 77X 2 Units****FREN 77Y 3 Units**

Prerequisite: Consent of instructor and division dean.

Three hours laboratory for each unit of credit.

(Any combination of French 77, 77X and 77Y may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)

Special reading, writing, or study projects in any discipline in French, determined in consultation with the instructor.

Geography

GEO 1 Physical Geography 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5;

Mathematics 210 or equivalent.

Four hours lecture.

An introduction to the basic physical elements of geography and the diverse physical environment in which we live. Topics include the global patterns of weather and climate, landforms, soils and vegetation along with human modification of natural environments.

GEO 4 Cultural Geography 4 Units

(Formerly Geography 50.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5;

Mathematics 210 or equivalent.

Four hours lecture.

Examining the location of people and activities throughout the world and understanding the reasons for their distribution. Topics covered include population and migration, human-environment relationships, geographies of language, religion, race and ethnicity, economic activities, political organization and settlement patterns including the urban environment.

GEO 5 A Geography of California 4 Units

(Formerly Geography 55.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

An exploration California's diverse physical landscapes (land forms, climate, soil and resources) and analyzes its cultural landscapes created by human transformation of the environment through economic activities such as agriculture, mining, trade, industry and urbanization. Examines the remarkable physical and cultural regional differences within California. A study in the wealth of diversity of California's peoples while investigating the more disturbing aspects of discrimination and exploitation of various groups based on race, ethnicity, class and gender.

GEO 10 World Regional Geography 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5;

Mathematics 210 or equivalent.

Four hours lecture.

An introduction to the major distinctive regions of the world; their natural environment, people, resources, agriculture, manufacturing, trade, cities and the problems relating to contemporary society in each of the regions. Understanding the increasing interdependencies among and between regions.

Geology

GEOL 10 Introductory Geology 5 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or

English as a Second Language 272 and 273.

Four hours lecture, three hours laboratory.

Analysis and description of the composition, structure, and development of the earth's external and internal features. Examination of the concepts and principles upon which geologic knowledge is based. (One Saturday field trip is required.)

GEOL 20 General Oceanography 4 Units

Four hours lecture.

An introduction to the physical environment of the ocean. Origin and evolution of ocean basins; sea-floor morphology; origin, distribution, historical record, and economic significance of marine sediments; ocean currents, climate and the ocean system, waves, tides, and changing sea level; beaches, shorelines, and coastal processes; marine resources, pollution, and human impacts on the oceans. (One Saturday field trip is required.)

GEOL 77 Special Projects in Geology 1 Unit**GEOL 77X 2 Units****GEOL 77Y 3 Units**

Prerequisite: Consent of instructor and division dean.

Three hours laboratory for each unit of credit.

(Any combination of Geology 77, 77X and 77Y may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)

Pass-No Pass (P-NP) course.

Individual special reading, writing, or study projects in Geology as determined in consultation with the instructor.

GEOL 78 Special Topics in Geology 1/2 Unit**GEOL 78W 1 Unit****GEOL 78X 2 Units****GEOL 78Y 3 Units****GEOL 78Z 4 Units**

Prerequisite: Consent of instructor and division dean.

Two hours lecture-laboratory for each unit of credit.

(Any combination of Geology 78, 78W, 78X, 78Y and 78Z may be taken up to six times, not to exceed 18 units, as long as the topics are different each time.)

Study of topics in the geological sciences that are of special relevance to current earth-science related events, geological hazards, environmental issues, new discoveries in the geological sciences, or resource issues.

GERM 1	Elementary German (First Quarter)	5 Units
<i>(See general education pages for the requirement this course meets.)</i> Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Five hours lecture. Introduction to the language and cultures of the German speaking countries. Basic speaking, listening, reading and writing of German will be introduced and practiced within a cultural framework. The emphasis will be on language as an expression of culture. Language laboratory practice to reinforce pronunciation, grammar and syntax.		
GERM 2	Elementary German (Second Quarter)	5 Units
<i>(See general education pages for the requirement this course meets.)</i> Prerequisite: German 1 (equivalent to one year of high school German) or equivalent. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Five hours lecture. Further development of material presented in German 1. Continuation of introduction to the language and cultures of the German-speaking countries. Basic speaking, listening, reading and writing of German will be introduced and practiced within a cultural framework. The emphasis will be on language as an expression of culture. Language laboratory practice to reinforce pronunciation, grammar and syntax.		
GERM 3	Elementary German (Third Quarter)	5 Units
<i>(See general education pages for the requirement this course meets.)</i> Prerequisite: German 2 (equivalent to two years of high school German) or equivalent. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Five hours lecture. Further development of material presented in German 1 and 2. Completion of introduction to the language and cultures of the German-speaking countries. Basic speaking, listening, reading and writing of German will be introduced and practiced within a cultural framework. The emphasis will be on language as an expression of culture. Language laboratory practice to reinforce pronunciation, grammar and syntax.		
GERM 4	Intermediate German (First Quarter)	5 Units
<i>(See general education pages for the requirement this course meets.)</i> Prerequisite: German 3 (equivalent to three years of high school German) or equivalent. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Five hours lecture. Development of reading, writing, speaking and listening skills at the first intermediate level. Reading and discussion of texts dealing with the literature, arts, history, geography and culture of the German-speaking world. Review and expansion of the linguistic functions and grammar structures of first-year German.		
GERM 5	Intermediate German (Second Quarter)	5 Units
<i>(See general education pages for the requirement this course meets.)</i> Prerequisite: German 4 (equivalent to four years of high school German) or equivalent. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Five hours lecture. Development of reading, writing, speaking and listening skills at the second intermediate level. Reading and discussion of texts dealing with the literature, arts, history, geography and culture of the German-speaking world. Review and expansion of the linguistic functions and grammar structures of first-year German.		
GERM 6	Intermediate German (Third Quarter)	5 Units
<i>(See general education pages for the requirement this course meets.)</i> Prerequisite: German 5 or equivalent. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Five hours lecture. Development of reading, writing, speaking and listening skills at the third intermediate level. Reading and discussion of texts dealing with the literature, arts, history, geography and culture of the German-speaking world. Review and expansion of the linguistic functions and grammar structures of first-year German.		

GUID 200	Educational Diagnostic Center (EDC) Learning Skills Assessment	1 Unit
<i>(Formerly Guidance 100.)</i> Credit course - Does not apply to De Anza Associate degree. One hour lecture. Pass-No Pass (P-NP) course. Individualized psycho-educational assessment which provides an analysis of learning strengths and weaknesses, cognitive/perceptual abilities and academic achievement levels. Assessment results may be utilized to determine a student's eligibility for community college learning disability services. College and community resources to enhance access and success will be introduced.		
GUID 201	Introduction to Learning Disabilities and Attention Deficit/Hyperactive Disorders	4 Units
<i>(Formerly Guidance 101.)</i> Credit course - Does not apply to De Anza Associate degree. Advisory: English Writing 1A or English as a Second Language 5; Guidance 200. Four hours lecture. Covers basic characteristics of learning disabilities and attention deficit/hyperactive disorders and their impact on various life functions including learning. Emphasis is on awareness, acceptance, and advocacy of learning disabilities for college students with specialized learning differences.		
GUID 202	Student Success Strategies	4 Units
<i>(Formerly Guidance 102.)</i> Credit course - Does not apply to De Anza Associate degree. Advisory: Guidance 200. Four hours lecture. Pass-No Pass (P-NP) course. Optimal learning strategies and accommodative techniques for students with special learning needs. Evaluate and apply successful learning tools in areas such as time management, goal setting, memory, processing information, test taking strategies and learning styles.		
GUID 204	Introductory Spelling Strategies	4 Units
<i>(Formerly Guidance 104.)</i> Credit course - Does not apply to De Anza Associate degree. Advisory: Guidance 200 and/or placement by Educational Diagnostic Center Learning Specialist or Disability Support Services counselor. Basic word processing proficiency or concurrent enrollment in Special Education 140, 145, or Computer Applications and Office Systems 70AA. Four hours lecture. Pass-No Pass (P-NP) course. A multi-sensory approach to improving basic reading and spelling skills for the student with special needs utilizing a phonetic sound-symbol base to aid in decoding and encoding language. Development of word attack skills utilizing the six-syllable spelling patterns and knowledge of roots, prefixes, and suffixes. Specialized learning strategies are utilized including simultaneous use of visual, auditory and kinesthetic modalities.		
GUID 207	Educational Diagnostic Center (EDC) Introductory Writing and Grammar Skills	4 Units
<i>(Formerly Guidance 107.)</i> Credit course - Does not apply to De Anza Associate degree. Advisory: Guidance 200. Four hours lecture. Pass-No Pass (P-NP) course. Basic writing and editing skills for students with specialized learning needs preparing for college level writing activities. Engage in diverse writing formats including structured paragraphs on a variety of topics using compensatory written learning strategies. Practice parts of speech, capitalization, punctuation, sentence structure, and paragraph development.		
GUID 209	Arithmetic Skills and Strategies	4 Units
<i>(Formerly Guidance 109.)</i> Credit course - Does not apply to De Anza Associate degree. Advisory: Guidance 200 or placement by a counselor/adviser. Four hours lecture. Pass-No Pass (P-NP) course. A transition class for students with special learning needs. The class is designed to improve skills in mathematics by addressing areas of difficulty common to students with disabilities in mathematics. The class moves at a slower pace and includes small group instruction.		

GUID 211 Algebra Skills I**4 Units**

(Formerly Guidance 111.)

*Credit course - Does not apply to De Anza Associate degree.**Advisory: Guidance 200 or placement by a counselor/adviser.**Four hours lecture.**Pass-No Pass (P-NP) course.*

A transitional class for students with special learning needs. The class is designed to improve skills in mathematics by addressing areas of difficulty common to student with disabilities in mathematics. The class moves at a slower pace with small group instruction. This class also includes alternative learning strategies for mastering algebraic concepts.

GUID 212 Algebra Skills II**4 Units**

(Formerly Guidance 112.)

*Credit course - Does not apply to De Anza Associate degree.**Advisory: Guidance 200; Mathematics 210; or placement by a counselor/adviser.**Four hours lecture.**Pass-No Pass (P-NP) course.*

A transition class for students with special learning needs. The class focuses on the acquisition of fundamental algebra skills, including the study of equations, polynomials, factoring, graphs of linear functions and inequalities by using a multi-sensory approach.

GUID 218 Educational Diagnostic Center (EDC) Group Instructional Assistance**1 Unit**

(Formerly Guidance 118.)

*Credit course - Does not apply to De Anza Associate degree.**Advisory: Guidance 204, 207, 209, 211 or 212.**Two hours lecture-laboratory.**Pass-No Pass (P-NP) course.*

Small group collaborative and instructional support focused on reducing learning difficulties associated with learning and other types of disabilities and on developing study strategies designed to improve academic performance.

GUID 219 Educational Diagnostic Center (EDC) Instructional Assistance Laboratory**1/2 Unit**

(Formerly Guidance 119.)

*Credit course - Does not apply to De Anza Associate degree.**One and one-half hours laboratory.**(May be taken up to six times for credit.)**Pass-No Pass (P-NP) course.*

Instructional support laboratory that provides students with disabilities strategies for effective studying and to improve academic performance.

Health

HLTH 21 Contemporary Health Concerns**4 Units***(See general education pages for the requirement this course meets.)**Advisory: English Writing 1A or English as a Second Language 5.**Four hours lecture.*

Development of understanding and attitudes relative to personal, family, community, and global health needs. Attention given to mental health, drug abuse, infectious and degenerative diseases, family health, nutrition, exercise, the life cycle, and ecological conditions of health significance. Study of common lifestyle behaviors will emphasize self-help and preventable aspects of medical care.

HLTH 51 Health and Fitness**4 Units***(See general education pages for the requirement this course meets.)**Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.**(Also listed as Physical Education 51. Student may enroll in either department, but not both, for credit.)**Four hours lecture.*

Introduction to the disciplines of Physical Education and Health through fitness, wellness and lifestyle management. Concepts of wellness from an interdisciplinary and global perspective. Practices and beliefs that contribute to fitness and healthful living. Students will be exposed to past and current theories of health and fitness with emphasis on how lifestyle, wellness, and personal fitness are affected by genetics, gender, and age. Each student will assess their own cardiovascular capacity, muscular strength and endurance, flexibility, body composition, and diet during the class.

HLTH 57A**First Aid in the Workplace, Community and Wilderness****1/2 Unit***Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.**One hour lecture-laboratory.**(May be taken once every three years for credit.)*

Designed for certification in American Red Cross First Aid. Students will gain the knowledge and skills necessary to recognize and provide basic care for injuries and sudden illness until advanced medical personnel take over. Adaptations for a wilderness environment, including altitude, lightning, heat and cold emergencies, sudden illness, injuries, leadership, decision making, resource management, victim protection and transport. Upon successful completion of the course, each participant will receive an American Red Cross certification in First Aid (valid for three years).

HLTH 57D**CPR/AED for the Professional Rescuer - Recertification****1/2 Unit**

Prerequisite: Must have current certificate from the American Red Cross or the American Heart Association for cardiopulmonary resuscitation and automated external defibrillation (CPR/AED) for the professional rescuer.

*One and one-half hours laboratory.**(May be taken once per year for credit.)**Pass-No Pass (P-NP) course.*

Designed to recertify the trained candidate in CPR/AED for the professional rescuer. The course meets Cal-OSHA standards for basic requirements.

HLTH 57E**Cardiopulmonary Resuscitation and Automated External Defibrillation****1/2 Unit***Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.**One and one-half hours laboratory.**(May be taken three times per year for credit.)**Pass-No Pass (P-NP) course.*

Designed for certification in American Red Cross cardiopulmonary resuscitation and automated external defibrillation for the professional rescuer. Using American Red Cross standards, students will gain the knowledge and skills necessary to apply the blood-borne pathogens regulations issued by the Occupational Health and Safety Administration with the intent to prevent disease transmission, recognize and provide basic care for breathing emergencies, perform adult, child and infant cardiopulmonary resuscitation (CPR) and use an automated external defibrillator (AED) for victims of sudden cardiac arrest. (Upon successful completion of the course, each participant will receive an American Red Cross certification in CPR/AED for the Professional Rescuer.)

Health Technologies

HTEC 50**Introduction to Health Technologies****1 Unit***Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.**Two hours lecture-laboratory.**Pass-No Pass (P-NP) course.*

Survey of health technology programs with emphasis on the professions; designed to assist in identifying personal strengths and weaknesses related to health technology professions; assist students in health technology professions to learn basic principles of human behavior.

HTEC 51**Introduction to Medical Laboratory Technology****2 Units***Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 114 or equivalent.**Four hours lecture-laboratory.*

Introduces clinical laboratory professions and provides the foundation of theory, skills and techniques required for understanding and performing routine laboratory tests.

HTEC 60A**Basic Medical Terminology****3 Units***Prerequisite: Health Technologies 50 (may also be taken concurrently).*

(Those enrolled in De Anza College's Health Technology programs must complete the pre/corequisite; those not enrolled in Health Technology programs do not need to complete the pre/corequisite.)

Three hours lecture.

Orientation to medical terminology; basic structure of medical terms and their components-prefixes, suffixes and roots with emphasis on analysis, definition, spelling and pronunciation.

HTEC 60G**Advanced Medical Terminology****2 Units***Advisory: Health Technology 60A.**Two hours lecture.*

Application of medical terminology to the following body systems: digestive, urinary, reproductive, nervous, integumentary, sensory organs, and radiology.

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a smoke-free campus



HTEC 60H	Advanced Medical Terminology	2 Units	HTEC 77	Special Projects in Health Technology	1 Unit
<i>Advisory: Health Technology 60A.</i>			HTEC 77X		2 Units
<i>Two hours lecture.</i>			HTEC 77Y		3 Units
Application of medical terminology to the following body systems: cardiovascular, respiratory, blood and lymphatic, musculoskeletal, endocrine, oncology, pharmacology and psychiatry.			<i>(Formerly Health Technology 56, 56X and 56Y respectively.)</i>		
			<i>Three hours laboratory per week for each unit of credit.</i>		
			<i>(Any combination of Health Technology 77, 77X and 77Y may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)</i>		
			<i>Pass-No Pass (P-NP) course.</i>		
			<i>Individual advanced projects in Health Technology.</i>		
HTEC 61	Medical Communications	1 1/2 Units	HTEC 80	Clinical Hematology Laboratory	1 1/2 Units
<i>Corequisite: Health Technology 61 students must also enroll in Health Technology 101C.</i>			<i>Corequisite: Health Technology 80 students must also enroll in Health Technology 80A.</i>		
<i>Advisory: Computer Applications and Office Systems 70AA and 91AL; Health Technology 60A.</i>			<i>Four and one-half hours laboratory.</i>		
<i>Three hours lecture-laboratory.</i>			Introduces the various techniques and safety procedures used in the clinical hematology laboratory. The students will prepare and stain blood slides, perform microhematocrits, hemoglobin analysis, ESR, and Sickle Cell Screening. Students will perform manual WBC's and platelet counts using a hemacytometer. Students will evaluate printouts from the automated hematology analyzer. Students will determine the morphology and identification of common human blood cells. Special stains (Reticulocyte, giemsa and Kleihare-Betke) will be done. Correlating test results with disease states will be accomplished. Successful completion of this course and Health Technology 80A, Health Technology 81A, Health Technology 81, Health Technology 82A and Health Technology 82 is required to enroll in Clinical Hematology/Urinalysis/Coagulation Practicum, Health Technology 180.		
Application of medical terminology, abbreviations, symbols, numbers, keyboarding appropriate formats in medical communications; medical chart notes, history and physicals, consultations and operative reports.			HTEC 80A	Clinical Hematology Lecture	4 1/2 Units
HTEC 64A	Basic Clinical Laboratory Procedures	1 1/2 Units	<i>Corequisite: Health Technology 80A students must also enroll in Health Technology 80.</i>		
<i>(Formerly Health Technology 64G.)</i>			<i>Four and one-half hours lecture.</i>		
<i>Advisory: Health Technology 60A.</i>			Presents the origin of the various types of blood cells with emphasis on the red and white blood cells. Human hematological disorders and classifications based on clinical laboratory findings will also be covered. Case studies will be presented.		
<i>Three hours lecture-laboratory.</i>			HTEC 81	Clinical Urinalysis Laboratory	3/4 Unit
Introduction to clinical laboratory; microbiology and infectious diseases; urine collection; microscopic and macroscopic examination of urine.			<i>Corequisite: Health Technology 81 students must also enroll in Health Technology 81A.</i>		
HTEC 64B	Advanced Clinical Laboratory Procedures (Hematology)	1 1/2 Units	<i>Two and one-quarter hours laboratory.</i>		
<i>(Formerly Health Technology 64H.)</i>			Teaches the student the various properties and constituents of urine via "hands-on" learning. Emphasis is placed on the interpretation and handling of urine specimens and their accompanying requisitions. The students will be taught to examine urine physically, chemically, and microscopically and compare clinical values as related to the physiology of the urinary system in health and disease. Correlating test results to disease states will be accomplished. Successful completion of this course and Health Technology 81A, Health Technology 80A, Health Technology 80, Health Technology 82A, and Health Technology 82 is required to enroll in Clinical Hematology/Urinalysis/Coagulation Practicum Health Technology 180.		
<i>Prerequisite: Health Technology 64A.</i>			HTEC 81A	Clinical Urinalysis Lecture	1 1/2 Units
<i>Corequisite: Health Technology 64B students must also enroll in Health Technology 101A.</i>			<i>Corequisite: Health Technology 81A students must also enroll in Health Technology 81.</i>		
<i>Three hours lecture-laboratory.</i>			<i>One and one-half hours lecture.</i>		
Introduction to hematology and blood chemistry techniques: blood collection, hematocrit, white blood cell count and differential; preparation of blood smears, preservation, storage and mailing of blood samples.			Introduces the student to urine formation including renal anatomy and physiology, renal diseases and metabolic disorders. Content also includes basic body fluids. Case studies correlate clinical laboratory testing results to possible disease states.		
HTEC 68	Medical Reception Externship	2 Units	HTEC 82	Clinical Coagulation Laboratory	3/4 Unit
<i>Prerequisite: Health Technology 60A, 71, and 73; Computer Applications and Office Systems 70AA.</i>			<i>Corequisite: Health Technology 82 students must also enroll in Health Technology 82A.</i>		
<i>Six hours laboratory.</i>			<i>Two and one-quarter hours laboratory.</i>		
Practical medical reception experience in medical clinics.			Introduces the various techniques and safety procedures used the clinical coagulation laboratory. Emphasis on platelet function tests and intrinsic and extrinsic clotting pathway testing. Normal and abnormal cases will be studied. Correlating test results with disease states will be accomplished. Successful completion of this course and Health Technology 80, 80A, 81, 81A, and 82A are required to enroll in Clinical Hematology/Urinalysis/Coagulation Practicum, Health Technology 180.		
HTEC 71	Medical Office Reception	1 Unit	HTEC 82A	Clinical Coagulation Lecture	1 1/2 Units
<i>Advisory: Health Technology 60A.</i>			<i>Corequisite: Health Technology 82A students must also enroll in Health Technology 82.</i>		
<i>Two hours lecture-laboratory.</i>			<i>One and one-half hours lecture.</i>		
Duties of the medical receptionist with emphasis on oral communications and appointment scheduling.			Introduces the mechanisms involved in hemostasis. Includes the processes of primary, secondary and fibrinolysis in normal circumstances and in relation to disease states. Case studies will be included.		
HTEC 72	Medical Office Financial Procedures	1 1/2 Units	HTEC 83	Clinical Microbiology Laboratory	1 1/2 Units
<i>Corequisite: Health Technology 72 students must also enroll in Health Technology 101D.</i>			<i>Corequisite: Health Technology 83 students must also enroll in Health Technology 83A.</i>		
<i>Advisory: Health Technology 60A.</i>			<i>Four and one-half hours laboratory.</i>		
<i>Three hours lecture-laboratory.</i>			An introduction to the various techniques and safety procedures in clinical microbiology. Emphasizes the morphology and identification of common pathogenic organisms. Correlation of test results with disease states will be accomplished. Successful completion of this course and Health Technology 83A is required to enroll in Clinical Microbiology Practicum, Health Technology 183.		
Fee determination, credit and collections, billing, diagnostic and procedural coding, private and government health insurance programs.					
HTEC 73	Medical Law and Ethics	1 1/2 Units			
<i>Advisory: Health Technology 60A.</i>					
<i>Three hours lecture-laboratory.</i>					
Medical ethics, medical practice acts, legal relationship of patient and physician, legal responsibilities of the health technology team member, professional liability, physician's civic duties and arbitration.					
HTEC 74	Medical Transcription with Advanced Terminology	1 1/2 Units			
<i>Corequisite: Health Technology 74 students must also enroll in Health Technology 101C.</i>					
<i>Advisory: Health Technology 60A and 61.</i>					
<i>Three hours lecture-laboratory.</i>					
<i>(May be taken four times for credit.)</i>					
Development of transcription skills necessary for a medical office using actual dictation from various medical specialties; advanced medical terminology.					
HTEC 75	Medical Office Management	1 1/2 Units			
<i>Corequisite: Health Technology 75 students must also enroll in Health Technology 101G.</i>					
<i>Advisory: Health Technology 60A and 72.</i>					
<i>Three hours lecture-laboratory.</i>					
Advanced administrative skills including computerized accounts management duties of the medical office manager, personnel recruitment and training, financial management, office policy and procedure manuals, editorial and research duties and meeting arrangements.					

HTEC 83A Clinical Microbiology Lecture 4 1/2 Units

Corequisite: Health Technology 83A students must also enroll in Health Technology 83.

Four and one-half hours lecture.

Addresses microorganisms of medical microbiology with emphasis on the characteristics of clinically significant microorganisms and their biochemical profile, media for isolation, and identification methods for selected pathogens. The student will be introduced to identification methods, theories, and techniques used in basic bacteriology, parasitology and mycology. Emphasizes routine organism identification. Correlating test results with disease states will be accomplished. Successful completion of this course and Health Technology 83 is required to enroll in Clinical Microbiology Practicum, Health Technology 183.

HTEC 84 Clinical Immunology/Immunohematology Laboratory 1 1/2 Units

Corequisite: Health Technology 84 students must also enroll in Health Technology 84A.

Four and one-half hours laboratory.

Introduces the student to the basic principles of antigen and antibody reactions included in blood grouping and typing, compatibility testing and serological procedures by performances in a student lab environment. Introduces serological and immunohematology procedures and techniques to measure analytes qualitatively and quantitatively. Correlating test results with disease states will be accomplished. Successful completion of this course and Health Technology 84A is required prior to enrollment in Clinical Immunology/Immunohematology Practicum, Health Technology 184.

HTEC 84A Clinical Immunology/Immunohematology Lecture 4 1/2 Units

Corequisite: Health Technology 84A students must also enroll in Health Technology 84.

Four and one-half hours lecture.

Introduces the student to the basic principles of antigen and antibody reactions included in blood grouping and typing, compatibility testing and serological procedures. Introduces serological and immunohematology procedures and techniques to measure analytes qualitatively and quantitatively.

HTEC 85A Clinical Chemistry I Laboratory 1 1/2 Units

Corequisite: Health Technology 85A students must also enroll in Health Technology 85C.

Four and one-half hours laboratory.

Teaches the general laboratory principles and specific basic instrumentation methodologies used in basic clinical chemistry analysis. After review of laboratory math, and a reintroduction to quality control and quality assurance, the student will be introduced to variables of the pre-analytical phase, characteristics important to quality lab technique and safety. Correlating test results with disease states will be accomplished. Successful completion of this course, Health Technology 85B, 85C and 85D are required to enroll in Clinical Chemistry Practicum, Health Technology 185.

HTEC 85B Clinical Chemistry II Laboratory 1 1/2 Units

Prerequisite: Health Technology 85A.

Corequisite: Health Technology 85B students must also enroll in Health Technology 85D.

Four and one-half hours laboratory.

Teaches the general laboratory principles and specific basic instrumentation methodologies used in basic clinical chemistry analysis. After review of laboratory math, and a reintroduction to quality control and quality assurance, the student will be introduced to variables of the pre-analytical phase, characteristics important to quality lab technique and safety. Correlating test results with disease states will be accomplished. Successful completion of this course, Health Technology 85B, 85C and 85D are required to enroll in Clinical Chemistry Practicum, Health Technology 185.

HTEC 85C Clinical Chemistry I Lecture 4 1/2 Units

Corequisite: Health Technology 85C students must also enroll in Health Technology 85A.

Four and one-half hours lecture.

Fundamental principles of clinical chemistry will be presented. Topics include: laboratory math, basic supplies and equipment, testing variables, and analytical techniques. Detailed theory of enzymes, electrolytes, acid-base, trace metals, carbohydrates, cardiac, amino acids, proteins, porphyrins will be included. Basic quality control will be introduced. Correlating test results with disease states will be accomplished.

HTEC 85D Clinical Chemistry II Lecture 4 1/2 Units

Prerequisite: Health Technology 85C.

Corequisite: Health Technology 85D students must also enroll in Health Technology 85B.

Four and one-half hours lecture.

Teaches relationships between the endocrine system and analytes assayed in the clinical laboratory, including tumor markers, therapeutic drugs, and compounds studied in toxicology. The student will be introduced to vitamins assayed and correlate their clinical significance. The student will correlate liver, kidney, and pancreatic function with test results and compare with states of health and disease. The function and laboratory analysis of various body fluids including effusions, spinal fluid, and synovial fluid will be included.

HTEC 90G Basic Patient Care 1 1/2 Units

Corequisite: Health Technology 90G students must also enroll in Health Technology 101B.

Advisory: Health Technology 60A.

Three hours lecture-laboratory.

Medical asepsis, nutrition and diet therapy, vital signs, preparation of examining room and patient, various procedures in the medical office.

HTEC 90H Medical Office Sterile Technique 1 1/2 Units

Corequisite: Health Technology 90H students must also enroll in Health Technology 101E.

Advisory: Health Technology 60A and 90G.

Three hours lecture-laboratory.

Local application of heat and cold, medical office instruments, sterilization and disinfection of equipment and instruments, application of sterile gloves, assisting with minor office surgery, and bandaging.

HTEC 91 Medical Office Diagnostic Tests 1 1/2 Units

Corequisite: Health Technology 91 students must also enroll in Health Technology 101F.

Advisory: Health Technology 60A.

Three hours lecture-laboratory.

Electrocardiography, theory of assisting with physical therapy and x-ray examinations, theory of diagnostic procedures and instructions.

HTEC 92 Medical Office First Aid 1 1/2 Units

Advisory: Health Technology 60A.

Three hours lecture-laboratory.

Fundamentals of emergency care in the medical office with emphasis on potential life-threatening health problems.

HTEC 93 Pharmacology for Medical Assistants 1 1/2 Units

Advisory: Health Technology 60A.

Three hours lecture-laboratory.

Dosage calculation, drug legislation and standards, drug preparations and information regarding antibiotics, sulfonamides, antihistamines, and drugs that affect various systems of the body.

HTEC 94 Administration of Medications 1 Unit

Prerequisite: Health Technology 93 (may be taken concurrently).

Two hours lecture-laboratory.

(May be taken up to three times for credit.)

Pertinent anatomy and physiology, choice of equipment, proper technique, hazards and complications, post-treatment and test patient care and satisfactory performance of a minimum of ten intramuscular, subcutaneous, and intradermal injections; preparation and administration of oral medication.

HTEC 95 Health Technology Externship 3 Units

Prerequisite: Completion of all other courses in Health Technology curriculum.

Nine hours laboratory.

(May be taken up to six times for credit.)

Appropriate practical experience in medical facilities.

HTEC 96 Health Technology Externship 4 Units

Prerequisite: Completion of appropriate Health Technology Program's curriculum.

Twelve hours laboratory.

(May be taken up to six times for credit.)

Appropriate practical experience in medical facilities.

HTEC 101A Skill Building in Clinical Laboratory Procedures 1 Unit

Corequisite: Health Technology 101A students must also enroll in Health Technology 64B.

Three hours laboratory.

(May be taken up to six times for credit.)

Pass-No Pass (P-NP) course.

Collection and handling of blood specimens while developing speed and accuracy; performance of some tests on these specimens as required for medical facilities.

HTEC 101B	Skill Building in Basic Patient Care	1 Unit
Corequisite: Health Technology 101B students must also enroll in Health Technology 90G. Three hours laboratory. (May be taken up to six times for credit.) Pass-No Pass (P-NP) course. Development of speed and accuracy in skills learned in the basic patient care course; skills include proper hand washing, vital signs, preparation of examination room and patient and various procedures in the medical office.		
HTEC 101C	Skill Building in Medical Communications and Medical Transcription	1 Unit
Corequisite: Health Technology 101C students must also enroll in Health Technology 61 and/or 74. Three hours laboratory. (May be taken up to six times for credit.) Pass-No Pass (P-NP) course. Development of speed and accuracy in skills learned in medical communications and medical transcription and advanced medical terminology.		
HTEC 101D	Skill Building in Medical Office Financial Procedures	1 Unit
Corequisite: Health Technology 101D students must also enroll in Health Technology 72. Three hours laboratory. (May be taken up to six times for credit.) Pass-No Pass (P-NP) course. Development of speed and accuracy in skills learned in medical office financial procedures course; skills include determining ICD-9CM and CPT codes, completing various types of insurance forms.		
HTEC 101E	Skill Building in Medical Office Sterile Technique	1 Unit
Corequisite: Health Technology 101E students must also enroll in Health Technology 90H. Three hours laboratory. (May be taken up to six times for credit.) Pass-No Pass (P-NP) course. Development of speed and accuracy in skills learned in the medical office sterile technique course; skills include local application of heat and cold, application of sterile gloves, assisting with minor surgery, and bandaging.		
HTEC 101F	Skill Building in Medical Office Diagnostic Tests	1 Unit
Corequisite: Health Technology 101F students must also enroll in Health Technology 91. Three hours laboratory. (May be taken up to six times for credit.) Pass-No Pass (P-NP) course. Development of speed and accuracy in skills learned in the medical office diagnostic tests course; skills include performing and assessing electrocardiograms.		
HTEC 101G	Skill Building in Medical Office Management	1 Unit
Corequisite: Health Technology 101G students must also enroll in Health Technology 75. Three hours laboratory. (May be taken up to six times for credit.) Pass-No Pass (P-NP) course. Development of speed and accuracy in skills learned in medical office management course; skills include computerized account management duties and medical office administrative simulations.		
HTEC 110	Health Technologies Employment Preparation	1 1/2 Units
Advisory: To be taken the quarter before final externship. Three hours lecture-laboratory. (May be taken up to three times for credit.) Steps involved in seeking employment in medical facilities; preparation of resume and interviewing; preparation for certification examinations.		
HTEC 180	Clinical Hematology/Urinalysis/Coagulation Practicum	6 Units
(Formerly Health Technology 280.) Prerequisite: Health Technology 80A, 81A and 82A. Eighteen hours laboratory. Provides entry-level clinical laboratory practice/experience in the department of hematology, urinalysis and coagulation. Emphasis is place on technique, accuracy, and precision. Different instrumentation will be introduced as well as bench/manual methods. Competence will be evaluated based on final clinical evaluations. This practicum will be conducted at a clinical affiliate site that will be assigned by the MLT (Medical Laboratory Technician) Program Director.		

HTEC 183	Clinical Microbiology Practicum	6 Units
(Formerly Health Technology 283.) Prerequisite: Health Technology 83A. Eighteen hours laboratory. Provides entry-level clinical laboratory practice/experience in the department of microbiology. Emphasis is place on technique, accuracy, and precision. Different instrumentation will be introduced as well as bench/manual methods. Competence will be evaluated based on final clinical evaluations. This practicum will take place at a clinical affiliate site that will be assigned by the MLT (Medical Laboratory Technician) Program Director.		
HTEC 184	Clinical Immunology/Immunohematology Practicum	4 1/2 Units
(Formerly Health Technology 284.) Prerequisite: Health Technology 84A. Thirteen and one-half hours laboratory. Provides entry-level clinical laboratory practice/experience in the department of serology and blood banking. Emphasis is placed on technique, accuracy, and precision. Different instrumentation will be introduced as well as bench/manual methods. Competence will be evaluated based on final clinical evaluations. This practicum will take place at a clinical affiliate site that will be assigned by the MLT (Medical Laboratory Technician) Program Director.		
HTEC 185	Clinical Chemistry Practicum	6 Units
(Formerly Health Technology 285.) Prerequisite: Health Technology 85C and 85D. Eighteen hours laboratory. Provides entry-level clinical laboratory practice/experience in the department of general and special chemistry. Emphasis is placed on technique, accuracy, and precision. Different instrumentation will be introduced as well as bench/manual methods. Competence will be evaluated based on final clinical evaluations. This practicum will be conducted at a clinical affiliate site that will be assigned by the MLT (Medical Laboratory Technician) Program Director.		

Hebrew

HEBR 1	Elementary Hebrew (First Quarter)	5 Units
(See general education pages for the requirement this course meets.) Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. Five hours lecture. Introduction to the Hebrew language and the culture of Hebrew-speaking Israel. Basic speaking, listening, reading and writing of Hebrew will be introduced and practiced within a cultural framework. Hebrew will be the primary language of instruction. Readings and written practice will be used to further the understandings of the underlying grammatical and syntactical structures. Language laboratory practice will be part of the regular instruction to reinforce pronunciation, grammar, syntax, and conversation.		
HEBR 2	Elementary Hebrew (Second Quarter)	5 Units
(See general education pages for the requirement this course meets.) Prerequisite: Hebrew 1 (equivalent to one year high school Hebrew) or equivalent. Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. Five hours lecture. Continuation and further development of material presented in the introductory course - Hebrew 1. Intensive oral and written practice broadening the functions presented in Hebrew 1. Evaluating additional aspects of the Hebrew language and the culture of Israel, with emphasis on more advanced communicative activities. Hebrew will be the primary language of instruction and class discourse. Language laboratory practice will be part of the regular instruction to reinforce pronunciation, grammar, syntax, and conversation.		
HEBR 3	Elementary Hebrew (Third Quarter)	5 Units
(See general education pages for the requirement this course meets.) Prerequisite: Hebrew 2 (equivalent to two years high school Hebrew) or equivalent. Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. Five hours lecture. Continuation and further development of material presented in the introductory and intermediary courses - Hebrew 1 and Hebrew 2. Focus on intensive oral class interactions in Hebrew and increased scope of written works will further the competency acquired in Hebrew 2. Evaluating additional aspects of the Hebrew language and the culture of Israel, with emphasis on contemporary discourse. Classes will be conducted in Hebrew. Language laboratory practice will be part of the regular instruction to reinforce pronunciation, grammar, syntax, and conversation.		

HINDI 1 Elementary Hindi (First Quarter) 5 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Five hours lecture.

Introduction to the language and cultures of the Hindi-speaking countries. Basic speaking, listening, reading and writing of Hindi will be introduced and practiced within a cultural framework. The emphasis will be on language as an expression of culture. Language laboratory practice to reinforce pronunciation, grammar and syntax.

HINDI 2 Elementary Hindi (Second Quarter) 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Hindi 1 (equivalent to one year of high school Hindi) or equivalent.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Five hours lecture.

Further development of material presented in Hindi 1. Continuation of introduction to the language and cultures of the Hindi-speaking states. Basic speaking, listening, reading and writing of Hindi will be introduced and practiced within a cultural framework. The emphasis will be on language as an expression of culture. Language laboratory practice to reinforce pronunciation, grammar and syntax.

HINDI 3 Elementary Hindi (Third Quarter) 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Hindi 2 (equivalent to two years of high school Hindi) or equivalent.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Five hours lecture.

Further development of material presented in Hindi 1 and Hindi 2. Completion of introduction to the language and cultures of the Hindi-speaking states. Basic speaking, listening, reading and writing of Hindi will be introduced and practiced within a cultural framework. The emphasis will be on language as an expression of culture. Language laboratory practice to reinforce pronunciation, grammar and syntax.

History**HIST 2 Introduction to California Studies 4 Units**

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Interdisciplinary introduction to California as a region of the earth and of the mind: landscapes, environments and biosystems, peoples and culture, human communities and history, arts and literature, technological systems.

HIST 3A World History 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Intercultural Studies 3A. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Beginning with late prehistoric times and covering to 750 Common Era (C.E.), focusing on the world's ancient peoples, cultures and civilizations. Interdisciplinary, multi-perspective view of world history, using a thematic approach and offering a balanced, representative and inclusive sampling of the world's cultures from Africa, the Americas, Asia, Europe and Oceania.

HIST 3B World History 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Intercultural Studies 3B. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Beginning with 750 C.E. and covering to 1750 Common Era (C.E.), focusing on the convergence of the world's peoples, cultures and civilizations. Interdisciplinary, multi-perspective view of world history, using a thematic approach and offering a balanced, representative and inclusive sampling of the world's cultures from Africa, the Americas, Asia, Europe and Oceania.

HIST 3C World History 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Intercultural Studies 3C. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Beginning with 1750 Common Era (C.E.) and covering to the present, focusing on recent and current interactions between the world's peoples, cultures and civilizations. Interdisciplinary, multi-perspective view of world history, using a thematic approach and offering a balanced, representative and inclusive sampling of the world's cultures from Africa, the Americas, Asia, Europe and Oceania.

HIST 4A History of Western Civilization 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

The development of Western culture from its origins in the Near East through the Hellenistic era, with an emphasis on the growth of ancient Greek rationalism.

HIST 4B History of Western Civilization 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

The development of Western culture from the Roman Republic through the Middle Ages, with an emphasis on the growth of Judeo-Christian and Islamic traditions.

HIST 4C History of Western Civilization 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

The development of Western Civilization from the 13th to the late 18th centuries, which includes late Medieval, the Renaissance, Reformation, the Enlightenment. This study concludes with an overview of the French Revolution and the beginning of globalism and the modern world.

HIST 4D History of Western Civilization 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

The development of Western Civilization from the Revolutionary era to the present, with an emphasis on the emergence of modern ideologies and the development of modern social thought.

HIST 7A Colonial Latin American History 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Intercultural Studies 38A. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Colonial Latin America and its role in the Atlantic world (to 1825) including the independence movements. Themes cover social, intellectual and cultural developments, impact of poverty, race and gender relations and popular culture.

HIST 7B Modern Latin American History 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Intercultural Studies 38B. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Latin American history from post-colonialism to the present (1810 to the present). Focuses on understanding the region as a diverse geographic, political and social reality. Special attention will be given to contributions of various peoples and cultures, human communities in arts and literature.

HIST 9 Women in American History 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Women's Studies 9. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Critical examination of the social, economic, cultural and political history of American women from the colonial times to the present. Emphasis on the movements which enhanced women's political and economic rights, the social roles which defined women primarily by their gender and the legal realities that women faced. Significant moral, political and economic issues will be assessed.

HIST 10 History of California 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

California history from Native American cultures to the present. Emphasis is placed on introducing students to the discipline of history through cultural, social, economic, political, and environmental resource issues. Practice in critical analysis of primary and secondary sources.

HIST 11 Technology and the Environment in America 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

An introductory U.S. history survey that explores the interrelationships of people, their technology, and the environment. These relationships are examined in terms of the American experience from 1600 to the present.

HIST 16A	History of Africa to 1800	4 Units	HIST 19B	History of Asian Civilization: China and Japan (19th - 21st Centuries)	4 Units
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. (Also listed as Intercultural Studies 16A. Student may enroll in either department, but not both, for credit.) Four hours lecture. History of Africa from the Paleolithic period to 1800; an interdisciplinary survey of the emergence and development of African civilizations that focuses on geographical, environmental economic, social, cultural and political issues.			(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. (Also listed as International Studies 19B. Student may enroll in either department, but not both, for credit.) Four hours lecture. An introductory study of the development of modern China and Japan from the nineteenth to the twenty-first centuries.		
HIST 16B	History of Africa from 1800 to the Present	4 Units	HIST 28	Social Environmental History	4 Units
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. (Also listed as Intercultural Studies 16B. Student may enroll in either department, but not both, for credit.) Four hours lecture. A study of African history in the 19th and 20th centuries; an examination of the implications of European expansion into Africa; an analysis of the "Scramble for Africa"; the emergence of independent African nations and the growth of African nationalism.			(Formerly History 64.) (See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. (Also listed as Intercultural Studies 28. Student may enroll in either department, but not both, for credit.) Four hours lecture. An historical survey of human societies and their influence on the environments in which they developed. An examination of rapidly decreasing world resources, pollution, and the environment in general are examined in a historical context through a chronological approach, beginning with the ancient civilizations, the spreading of humanity across the globe, the cultural, social, and environmental implications, and ending with a discussion of contemporary environmental issues as they affect modern society.		
HIST 17A	History of the United States to Early National Era	4 Units	HIST 51W	Topics in California Political and Diplomatic History	1 Unit
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. U.S. civilization to Early National Era. A survey of the social, cultural, political, economic and intellectual development of the Colonial Era with emphasis on the era of the American Revolution, the development of the Constitution, and the role of the major ethnic, social and gender groups in the American experience.			HIST 51X		2 Units
HIST 17B	History of the United States from 1800 to 1900	4 Units	Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. One hour lecture for each unit of credit. (Any combination of History 51W and 51X may be taken up to six times as long as the topics are different each time.) Examination of topics relating to California's political and diplomatic history from the time of the early Spanish explorations through the present, looking at both Spanish, Mexican and United States rule.		
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. U.S. civilization from 1800 to 1900. A survey of United States history (political, economic, intellectual, and social development).			HIST 52W	Topics in History of Transportation in California	1 Unit
HIST 17C	History of the United States from 1900 to the Present	4 Units	HIST 52X		2 Units
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. American civilization from 1900 to the present. A survey of United States History (political, economic, intellectual, and social development).			Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. One hour lecture for each unit of credit. (Any combination of History 52W and 52X may be taken up to six times as long as the topics are different each time.) Examination of topics relating to California's transportation history looking at the influences of various cultures and national rulerships from the earliest human occupation to the present.		
HIST 18A	African American History Before 1865	4 Units	HIST 53W	Topics in California Historical Sites and Monuments	1 Unit
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. (Also listed as Intercultural Studies 18A. Student may enroll in either department, but not both, for credit.) Four hours lecture. History of the African American from the pre-European West African city state kingdoms to the end of the Civil War; major events in America's development emphasizing the role of people of African descent in the political, social and economic life of the United States; the institution of slavery; free Blacks in the north and the abolitionist movement.			HIST 53X		2 Units
HIST 18B	African American History Since 1865	4 Units	Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. One hour lecture for each unit of credit. (Any combination of History 53W and 53X may be taken up to six times as long as the topics are different each time.) Topics relating to California's sites and monuments through a historical perspective of various eras and major architects who created or influenced them. Consideration of the political, socioeconomic, geographical and environmental conditions providing the historical and cultural context in which these styles evolved.		
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. (Also listed as Intercultural Studies 18B. Student may enroll in either department, but not both, for credit.) Four hours lecture. History of the African American in the United States since the Civil War; major events in America's development emphasizing the role of people of African descent in the political, social and economic life of the United States; reconstruction; Jim Crow era; Booker T. Washington and his critics; Martin Luther King, Malcolm X and the Civil Rights Movement; the new reconstruction; and African Americans in the Reagan-Bush and Clinton eras.			HIST 54W	Special Topics: Significant Californians	1 Unit
HIST 19A	History of Asian Civilization: China and Japan (through the 18th Century)	4 Units	HIST 54X		2 Units
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. (Also listed as International Studies 19A. Student may enroll in either department, but not both, for credit.) Four hours lecture. An introductory study of the development of Chinese and Japanese civilizations from their origins through the eighteenth century.			Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. One hour lecture for each unit of credit. (Any combination of History 54W and 54X may be taken up to six times as long as the topics are different each time.) Works and achievements of specific Californians will be studied in relation to how they affected the trends, social climate, history and development of California.		
			HIST 107W	Community History	1 Unit
			HIST 107X		2 Units
			(Formerly History 107.) Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. One hour lecture for each unit of credit. (Any combination of History 107W and 107X may be taken up to six times as long as the topics/projects are different each time.) An overview and appreciation of one or more California communities tracing evolution of land use and development and looking at the influence of Native Americans and various cultures to the present.		

Human Development

HUMA 10 Human Sexuality 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

The comprehensive study of the biological, psychological and socio-cultural aspects of human sexuality. An exploration into values and attitudes and their relationship to behaviors and behavioral changes. Includes an assessment of various cultural mores and current safe sex practices.

HUMA 20 Life Skills for Higher Education 4 Units

(Formerly Human Development 57.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Addresses a multitude of life skills and strategies for success, with emphasis on attaining professional, personal and academic goals in a diverse society. Topics covered include creative and realistic goal setting, academic and life management, cultural learning styles, college and community resources, library and Internet use, time management, and techniques to reduce math and science anxiety. Evaluation and application of academic study methods to achieve subject matter mastery. Development of critical thinking skills, and application of reading, writing, note taking and test taking methods to improve personal strategies. Exploration of personal lifestyle and health factors, including the causes and management of stress, as it relates to academic success. Assessment of academic and career goals, selection of majors, and development of education plans. Topics from developmental psychology, learning theory and personality theory will be presented as a foundation for the course.

HUMA 50 Understanding and Managing Stress 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

The study of stress as the interaction between the individual and the environment, viewed from psychological, sociological, and physiological perspectives, including gender, physical and psychological disabilities, sexual orientation, multicultural and global concerns.

Humanities

HUMI 1 Creative Minds 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

An introduction to the study of creativity in human life; its sources, development, social purpose, and role in culture change. Students analyze creativity as a central source of meaning and purpose in their lives as well as a development of their unique combination of human intelligences. Lives of creative people from all over the world are examined and contextualized.

HUMI 2 But is it Art? Questions and Criticism 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

A cross-cultural, interdisciplinary introduction to aesthetics - theories about what art is, its functions and value, and the ways we experience it. Examines historical and contemporary views on visual, literary, and performing arts. Explores distinctions between "fine" and popular art, and varieties of deviant or shocking art. Primary focus will be on the visual arts and how they enrich our lives.

HUMI 5 Storytelling in American Culture 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Explores how stories are told among different ethnic groups within the United States. Critically examines how collective memories are selected, organized, transformed, contested, and retold as origin myths, multicultural histories, family lore, heroic epics, trickster tales, traumatic experiences, slave narratives, immigrant testimonies, spectacular events, war memorials, celebrity biographies, malicious rumors, urban legends, animated fairy-tales, and science fiction films.

HUMI 6 Popular Culture 4 Units

(Formerly Humanities 51.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Utilizes the methods of the humanities in a critical analysis of popular culture. This inquiry is framed in multicultural, historical and political contexts and will evaluate how popular culture is created and sustained by mass media and techniques of mass production, marketing and distribution. Students examine how social meaning is constructed by the "texts" of popular culture in a constantly changing era of globalization of information and economies.

HUMI 7 The Arts and the Human Spirit 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Explores the expression of spiritual and religious thought and aspiration in the arts. Examines religious art in various media in particular, and analyzes the roles of creativity and spirituality in the arts in general. Critical, reflective and experiential in approach.

HUMI 9 Introduction to Comparative Religion 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

An interdisciplinary examination and comparison of the religious dimensions of human life: history, terminology, emotional experiences, concepts, attitudes, images, material expressions, conflicts, myths, metaphors, symbols, perceptions of nature and the natural environment and rituals relating to the particular social context of each tradition. Emphasis will be placed on the numerous practices and perspectives of women and men throughout time and from different cultures regarding their sense of the sacred.

HUMI 10 Global Religious Perspectives: Judaism, Christianity, and Islam 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

This course is a historically grounded and contemporarily focused examination of the religious elements and experiences essential to the formation of the Western world-view. Early Tribal, European, Asian, Babylonian, Persian, and Egyptian content will be important, while Judaism, Christianity, and Islam will be the central focus.

HUMI 13 Introduction to Korean Popular Culture 4 Units

(Formerly Humanities 63.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A English as a Second Language 5.

(Also listed as International Studies 13.)

Four hours lecture.

An interdisciplinary introduction to contemporary Korean popular culture which explores modern Korean society across a wide range of themes such as identity, gender/sexuality, love/marriage, family and social value systems. Examines multi-levels of the socio-construction of modern Korean society through TV drama (soap opera), film and pop music. Also, it explores the unique patterns of Korean culture and Korean cultural issues related to contemporary Asian societies and global issues. No Korean language or studies experience necessary.

HUMI 14A Indian Philosophy 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Philosophy 14A. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

A study of the development of philosophical thought in India. Primary emphasis is given to the orthodox darshanas, especially Jaina.

HUMI 14B Chinese Philosophy 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Philosophy 14B. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

An introduction to classical Chinese philosophies (roughly the philosophies that flourished in China prior to unification in 221 B.C.E.), emphasizing Confucianism, Moism, Yangism, The Logicians, Han Fei Tzu, and the schools and texts that get antecedently labeled "Daoism." In addition to the classical period of Chinese philosophy, some attention will be given to the evolution of philosophical thought in China, such as the introduction of Buddhism and other elements (as represented, for example, by Wang Yangming). Finally, philosophical examination of contemporary China will be considered.

HUMI 14C Japanese Philosophy 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Philosophy 14C. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

A study of philosophical thought in Japan including Zen Buddhism, Shinto, and contemporary thinkers.

HUMI 15 Discussion on the Arts 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Art forms such as painting, sculpture, architecture, music, dance, drama, literature, film and photography will be explored to provide a forum for discussion on how the arts affect humanity, reflect the human spirit, touch the soul, and stimulate mankind's creativity. A great first time, multicultural exposure to the arts. Focus will be on enhancing the student's ability to experience the uniqueness of each art form and to develop a depth of understanding of its expression and relevance.

HUMI 16 Arts, Ideas and Values 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Interdisciplinary introduction to artistic cultural studies. A critical analysis of the dynamic process through which contemporary cultural values and social constructions of gender, ethnicity, sexual orientation, social class, religion and globalization shape and have been shaped by artistic expression. Special emphasis is placed on art as a tool for social change.

HUMI 17 Introduction to Electronic Media 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Film/Television 10. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

A survey course of the history, aesthetics, technology and social impacts of electronic media, including film, broadcasting and the Internet. Explores the role of government, advertising, audiences, and emerging technologies, their futures and impacts on global societies.

HUMI 18 History as Mystery: Western Perspectives in Global Contexts 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

As history reveals, it also conceals; so, what do historical narratives conceal? What kind of historical scripts might emerge from our descendants based on our current-cultural artifacts? This is an interdisciplinary discussion that identifies, examines, analyzes and critiques fundamental western concepts from aesthetics, history, philosophy, religion and science as representative of a perspective from an historical or cross-cultural context. Emphasis will be placed on how the past, present, and future have the potential to inform one another and are framed by perspective.

HUMI 20 The Greek Achievement 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Critical examination and exploration of the intellectual and artistic achievements of the Ancient Greeks who created new cultural alternatives (experiences) and values in self-awareness, rationalism, community, education, ethics, and justice. Particular attention will be paid to these experiences and values which will be explored and analyzed through Greek art, architecture, science, philosophy, drama, poetry, and religion.

Intercultural Studies

ICS 3A World History 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as History 3A. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Beginning with late prehistoric times and covering to 750 Common Era (C.E.), focusing on the world's ancient peoples, cultures and civilizations. Interdisciplinary, multi-perspective view of world history, using a thematic approach and offering a balanced, representative and inclusive sampling of the world's cultures from Africa, the Americas, Asia, Europe and Oceania.

ICS 3B World History 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as History 3B. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Beginning with 750 C.E. and covering to 1750 Common Era (C.E.), focusing on the convergence of the world's peoples, cultures and civilizations. Interdisciplinary, multi-perspective view of world history, using a thematic approach and offering a balanced, representative and inclusive sampling of the world's cultures from Africa, the Americas, Asia, Europe and Oceania.

ICS 3C World History 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as History 3C. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Beginning with 1750 Common Era (C.E.) and covering to the present, focusing on recent and current interactions between the world's peoples, cultures and civilizations. Interdisciplinary, multi-perspective view of world history, using a thematic approach and offering a balanced, representative and inclusive sampling of the world's cultures from Africa, the Americas, Asia, Europe and Oceania.

ICS 4 Race, Ethnicity and Social Stratification 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

An interdisciplinary study of race and ethnicity in relation to social stratification in the United States. Exploration of race and ethnicity as historical and social categories of identification in the context of changing relations of power, prestige, and privilege. Social stratification theories and social/policy debates will be analyzed.

ICS 5 History of Art (Multicultural Arts in the United States) 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Arts 2F. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

A cross-cultural introduction to American art history which includes interdisciplinary analysis of diverse art forms generated by artists of color, including African Americans, Asian Americans, Native Americans, Latina(o)s/ Chicana(o)s, and Americans of non-European heritage. Significant attention will be given to issues considered important by each ethnicity or group as well as issues related to racism, gender, and social class. Traditions, values, and cultural expressions of diverse societies and their contributions to American visual culture are explored.

ICS 7 Intercultural Communication 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Speech 7. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Study of intercultural communication in domestic and global contexts. Examines how differing cultures, languages, and social patterns influence the way members of groups relate among themselves and with members of other ethnic and cultural groups. Emphasizes development of interpersonal skills for communicating effectively across cultures and encourages appreciation of diverse cultural voices.

ICS 8 Women of Color in the USA 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Women Studies 8. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

An interdisciplinary, multi perspective and comparative study of the experiences of women of color in the United States. The constructs of race, ethnicity, class, gender and sexuality as they relate to social institutions and national ideologies will be explored. Examination and analysis of the historical, political, and economic influences that have informed the relationships between women of color and white women in the U.S.A, is foundational to this course.

ICS 9 Studying Race and Ethnicity (Theories and Methods) 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Interdisciplinary examination of historical and contemporary race and ethnic relations in the United States. Topics include racial and ethnic identity, racial privilege and inequality, theories of race and racial ideology, and pluralism and the work of anti-racism. Application of theories, concepts, and research frameworks towards studying race and ethnicity in local contexts.

ICS 10 An Introduction to African American Studies 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

A broad-based survey of African American life and culture. Through a variety of cross-disciplinary perspectives, including history, literature, philosophy, politics, socio-economics, and the arts, students gain insights into African American experiences in the United States.

ICS 11 The Roots of the African American Experience 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

An interdisciplinary course utilizing the award-winning docudrama "Roots: The Saga of an American Family". An historical and aesthetic analysis of people of African descent in the United States. Emphasis on the colonial period, antebellum era, the Civil War and reconstruction period.

ICS 12 An Introduction to African American Literature 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Surveys African American literature in all genres from the mid-eighteenth century to the present. Emphasizes the cultural, historical and social contexts of African American oral and literary expression. Studies writers such as Phillis Wheatley, Zora Neale Hurston, Langston Hughes, Richard Wright, Alice Walker and Toni Morrison.

ICS 14 Cinema and the African American (An Historical Analysis of African Americans in American Cinema) 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Film/Television 48 and English Literature 6. Student may enroll in only one department for credit.)

Four hours lecture.

A survey of the image and role of the American film industry. Particular attention will be given to the development of images of racial stereotypes, those works attempting a historical portrayal of the African American experience and the roles played by key African Americans in the evolution of film as an art and feature films as an industry in the United States.

ICS 16A History of Africa to 1800 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as History 16A. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

History of Africa from the Paleolithic period to 1800; an interdisciplinary survey of the emergence and development of African civilizations that focuses on geographical, environmental economic, social, cultural and political issues.

ICS 16B History of Africa from 1800 to the Present 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as History 16B. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

A study of African history in the 19th and 20th centuries; an examination of the implications of European expansion into Africa; an analysis of the "Scramble for Africa"; the emergence of independent African nations and the growth of African nationalism.

ICS 17 Critical Consciousness and Social Change 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Philosophy 17. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Introduction to the basic issues and concepts related to social change, including the development of ways of thinking that promote social change. Students will read classical and contemporary authors on movements for social change, strategies for organizing, and the development of political consciousness.

ICS 18A African American History Before 1865 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as History 18A. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

History of the African American from the pre-European West African city state kingdoms to the end of the Civil War; major events in America's development emphasizing the role of people of African descent in the political, social and economic life of the United States; the institution of slavery; free Blacks in the north and the abolitionist movement.

ICS 18B African American History Since 1865 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as History 18B. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

History of the African American in the United States since the Civil War; major events in America's development emphasizing the role of people of African descent in the political, social and economic life of the United States; reconstruction; Jim Crow era; Booker T. Washington and his critics; Martin Luther King, Malcolm X and the Civil Rights Movement; the new reconstruction; and African Americans in the Reagan-Bush and Clinton eras.

ICS 20 Asian American Experiences in History 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Experiences of Asian immigrant communities in the United States from the 19th Century to the Asian American Movement of the late 1960s.

ICS 22 Contemporary Issues in the Asian American Communities 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Experiences of contemporary Asian Americans are examined in terms of issues such as identity, community, youth, and empowerment, with an interdisciplinary approach based on Asian American Studies and the social sciences.

ICS 24 Asian American Literature 4 Units

(Formerly Intercultural Studies 52.)

(See general education pages for the requirement this course meets.)

Prerequisite: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as English Literature 24. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Introduction to Asian American literature. Readings in Twentieth and Twenty-First Century works, with an emphasis on three relevant themes: problems of identity as it relates to class, gender, mixed heritages, and sexuality; politics and the history of Asian American activism and resistance; and diversity of cultures within the Asian American community.

ICS 28 Social Environmental History 4 Units

(Formerly Intercultural Studies 64.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as History 28. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

An historical survey of human societies and their influence on the environments in which they developed. An examination of rapidly decreasing world resources, pollution, and the environment in general are examined in a historical context through a chronological approach, beginning with the ancient civilizations, the spreading of humanity across the globe, the cultural, social, and environmental implications, and ending with a discussion of contemporary environmental issues as they affect modern society.

ICS 29 Cultural Pluralism and American Law and Justice 4 Units

(Formerly Intercultural Studies 58.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Administration of Justice 29. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

An interdisciplinary study of marginalized peoples and their relationship to the law. Examines the legal perspective on cultural diversity in the United States, including race, ethnicity, gender, class, religious background, disability, and sexual orientation. Analyzes how these groups interact with mainstream society through American law, concentrating on both historical and contemporary state and federal legislation and court rulings. Analyzes how the courts play a role in determining the status of minority groups.

ICS 30 Introduction to Chicano Studies 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

An exploration of the Chicano experience with emphasis on the cultural and historical development, the socioeconomic and political status of the contemporary Chicano/a.

ICS 31	Chicano Culture	4 Units	ICS 43	U.S. History from an American Indian Perspective	4 Units
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Survey of the origins and development of Chicano culture with emphasis on the religions, philosophies, and lifestyles of the Chicano.			(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Study of U.S. history from an indigenous perspective pre-Columbian contact to present. Examines Native American societies with attention to white intrusion, U.S. constitution and legislation to remove American Indians, control their land and the impact upon indigenous cultures and society.		
ICS 32	Chicano History	4 Units	ICS 44	American Indian Religions	4 Units
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. A history of the Chicano people, surveying pre-Columbian origins, with emphasis on the period since 1848 in the United States Southwest.			(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Survey of spirit beings, prophesies, and renewals of the Indian way through their land-based religions, symbols and ceremonies. Tribal religions reviewed as they have been influenced by foreign influences and philosophies. Change and continuity of American indigenous values and tribalism as reflected through present-day spiritual issues in Indian America.		
ICS 33	The Chicano and the Arts	4 Units	ICS 45	Survey of American Indian Arts	4 Units
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Survey and analysis of contemporary Chicano art, film, theater and dance, and literature, and their influence on the Chicano experience.			(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Survey of styles and forms of pre-contact and contemporary American Indian arts, within the context of their tribal cultures and traditions with consideration of the influence of non-native cultures' artistic techniques and resources on American Indian art. A look at the development of contemporary American Indian arts.		
ICS 35	Chicano Literature	4 Units	ICS 46	Literatures of America's Native Peoples	4 Units
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. A survey of Chicano/a literature in its various forms, with emphasis on contemporary authors, from the 1940s to the present.			(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Study of traditional and contemporary literature produced by native peoples of North America. Literary methods of analysis of contemporary American Indian poetry and fiction will be used to explore and formulate perspectives concerning Indian America in the 21st century.		
ICS 37	Ancient People of Mesoamerica	4 Units	ICS 55	Civic Leadership for Community Empowerment	4 Units
(See general education pages for the requirement this course meets.) Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Four hours lecture. Introductory survey of the development of pre-contact Mesoamerican indigenous cultures, concluding with the Spanish invasion, conquest and colonization of the Aztecs, Maya and Zapotec peoples. A course of study commencing with the earliest known evidence of human occupation in Mesoamerica, progressing through the development of agriculturally-based societies.			(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Introduction to intercultural studies through principles of civic leadership. Explores community empowerment as idea and practice in areas of public service, nonprofit work, and electoral politics. Examines political economy of community development through historical study of disenfranchised ethnic, racial, and immigrant groups in the U.S. such as Asian Americans and Latinos, the two largest ethnic and racial minority populations in Silicon Valley. Engages students in community-focused problem solving, personal reflection, and interpersonal and organizational leadership development.		
ICS 38A	Colonial Latin American History	4 Units	ICS 77	Special Projects in Intercultural Studies	1 Unit
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. (Also listed as History 7A. Student may enroll in either department, but not both, for credit.) Four hours lecture. Colonial Latin America and its role in the Atlantic world (to 1825) including the independence movements. Themes cover social, intellectual and cultural developments, impact of poverty, race and gender relations and popular culture.			ICS 77X		2 Units
ICS 38B	Modern Latin American History	4 Units	ICS 77Y		3 Units
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. (Also listed as History 7B. Student may enroll in either department, but not both, for credit.) Four hours lecture. Latin American history from post-colonialism to the present (1810 to the present). Focuses on understanding the region as a diverse geographic, political and social reality. Special attention will be given to contributions of various peoples and cultures, human communities in arts and literature.			ICS 77Z		4 Units
ICS 41	American Indians in Contemporary Society	4 Units	Prerequisite: Consent of instructor and division dean. One hour lecture for each unit of credit. (Any combination of Intercultural Studies 77, 77X, 77Y and 77Z may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.) Specific reading, writing or study projects within the discipline of Intercultural Studies.		
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Sociological understanding of the American Indian groups in contemporary society with emphasis on the relationship to dominant society. American Indian economic, political, legal and cultural changes in the 21st century. Emphasis on issues of identity, the role of the federal government, gaming and self-determination.			ICS 78	Issues in Intercultural Studies	1/2 Unit
ICS 42	American Indian Peoples of California	4 Units	ICS 78W		1 Unit
(See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. A survey of the American Indian peoples of California, including their histories and cultures from oral traditions to contemporary issues, with a focus on selected Indian tribes and communities.			ICS 78X		2 Units
			ICS 78Y		3 Units
			ICS 78Z		4 Units
			Advisory: English Writing 1A or English as a Second Language 5. Three hours laboratory for each unit of credit. (Any combination of Intercultural Studies 78, 78W, 78X, 78Y and 78Z may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.) Special group projects that incorporate the theory and practice of issues within the field of intercultural studies.		

De Anza College.
Just What You Need

ICS 80	Community Based Learning in Intercultural Studies	1/2 Unit
ICS 80W		1 Unit
ICS 80X		2 Units
ICS 80Y		3 Units
ICS 80Z		4 Units

Three hours laboratory for each unit of credit.
(Any combination of Intercultural Studies 80, 80W, 80X, 80Y and 80Z may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.)
Practical work with a community, business or civic institution and reflection on that activity.

International Studies

INTL 5	Global Issues and Perspectives	4 Units
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(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5.
Four hours lecture.
Introduces current global issues, with emphasis on the development and growth of the global economy and world order, as seen from a number of different perspectives. Analyzes the role of culture in world affairs, the processes of economic development and globalization, the environmental impacts of global production, and issues of war and peace. Encourages consideration of global processes from local, regional, governmental and non-governmental perspectives.

INTL 8	Sociology of Globalization and Social Change	4 Units
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(Formerly International Studies 58.)
(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5.
(Also listed as Sociology 5. Student may enroll in either department, but not both, for credit.)
Four hours lecture.
Introduction to the sociological study of globalization and other forms of social change. Macrosociological analysis of economic, political, military, cultural, technological, and environmental aspects of globalization; history of globalization, European colonialism and decolonization processes; impact of multinational corporations and global political and financial institutions, and social movements from cross-cultural and global perspectives.

INTL 10	History of Art (Arts of Asia)	4 Units
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(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5.
(Also listed as Arts 2G. Student may enroll in either department, but not both, for credit.)
Four hours lecture.
A general introduction to art through major Asian artistic traditions. Focuses upon paintings, sculptures, ceramics, and architecture and their religious, cultural, historical, and social contexts. Examines arts from China, Japan, India, Central Asia, Himalayas, and Southeast Asia and assesses the contributions of Asian art in a global context.

INTL 11	Vietnamese Literature (from Tradition to Asian American Identity)	4 Units
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(See general education pages for the requirement this course meets.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Four hours lecture.
An introduction to the humanities through Vietnamese literature. Exploration of oral tradition, folk literature, traditional elite literature, modern prose, exile writings, and Vietnamese American literary expressions. Students develop an historical and aesthetic understanding of Vietnamese and Vietnamese American creative expressions, with emphasis on native development and international influences.

INTL 13	Introduction to Korean Popular Culture	4 Units
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(Formerly International Studies 63.)
(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A English as a Second Language 5.
(Also listed as Humanities 13.)
Four hours lecture.
An interdisciplinary introduction to contemporary Korean popular culture which explores modern Korean society across a wide range of themes such as identity, gender/sexuality, love/marriage, family and social value systems. Examines multi-levels of the socio-construction of modern Korean society through TV drama (soap opera), film and pop music. Also, it explores the unique patterns of Korean culture and Korean cultural issues related to contemporary Asian societies and global issues. No Korean language or studies experience necessary.

INTL 15	Introduction to the Arab World	4 Units
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(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5.
Four hours lecture.
An introductory survey of contemporary Arab society and people. Topics include geography, family and gender, religions and pre- and post-colonial histories; ethnicity, migration, refugees and Arab groups in Europe and the Americas; and new media and globalization in Arab countries today. Provides an overview of key events, milestones and ideas that have shaped Arab society and includes a sociological analysis of the societies and people, emphasizing the nature and character of social transformation, as well as issues related to ethnic groups, migrations, refugees, and globalization.

INTL 19A	History of Asian Civilization: China and Japan (through the 18th Century)	4 Units
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(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5.
(Also listed as History 19A. Student may enroll in either department, but not both, for credit.)
Four hours lecture.
An introductory study of the development of Chinese and Japanese civilizations from their origins through the eighteenth century.

INTL 19B	History of Asian Civilization: China and Japan (19th - 21st Centuries)	4 Units
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(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5.
(Also listed as History 19B. Student may enroll in either department, but not both, for credit.)
Four hours lecture.
An introductory study of the development of modern China and Japan from the nineteenth to the twenty-first centuries.

INTL 21	History of Art: Native Arts of Mesoamerica and South America	4 Units
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(Formerly International Studies 67.)
(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5.
(Also listed as Arts 2H. Student may enroll in either department, but not both, for credit.)
Four hours lecture.
A general introduction to the visual arts of the indigenous cultures of Mesoamerica, an area extending from northern Mexico through Central America, and the Andean region of South America. Covers diverse art forms, including architecture, ceramics, weaving, painting and sculpture from antiquity to the present. Topics addressing the religious, cultural, social, economic and political contexts of the art will be explored. Compares indigenous arts of the Americas to other world art traditions and assesses the contributions of indigenous cultures in a global context.

INTL 22	History of Art: Indigenous Arts of the World	4 Units
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(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5.
(Also listed as Arts 2J. Student may enroll in either department, but not both, for credit.)
Four hours lecture.
A general introduction to some of the many indigenous art traditions around the world, with emphasis placed upon traditional arts created for use in small-scale communities from the Americas, South Pacific region and Africa. Diverse art forms covered will include sculpture, painting, performance, ceramics, textiles and architecture from antiquity through the colonial period to the present. Topics addressing the religious, cultural, social, economic and political contexts of the art will be explored. Compares arts from indigenous peoples to other world art traditions and assesses the contributions of indigenous arts in a global context.

INTL 23	History of Art: Visual Arts of Islam	4 Units
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(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5.
(Also listed as Arts 2K. Student may enroll in either department, but not both, for credit.)
Four hours lecture.
An exploration of the visual arts of Islam in a global context, including comparative analysis of the arts from diverse regions of the Islamic world. Examines artistic traditions of calligraphy, miniature painting, textiles, decorative arts and architecture from the beginnings of the Islamic faith to the present, and Islamic contributions to world art history. Includes interdisciplinary analysis of Islamic visual arts, emphasizing the cultural and religious contexts, as well as issues related to gender and social class.

INTL 24 History of Art: Visual Arts of Africa 4 Units
 (See general education pages for the requirement this course meets.)
 Advisory: English Writing 1A or English as a Second Language 5.
 (Also listed as Arts 2L. Student may enroll in either department, but not both, for credit.)
 Four hours lecture.

A general introduction to the visual arts of Africa, covering diverse art forms, including sculpture, painting, performance, ceramics, textiles and architecture from antiquity through the colonial period to the present. Topics addressing the religious, cultural, social, economic and political contexts of the art will be explored. Compares arts from Africa to other world art traditions and assesses the contributions of African arts in a global context.

INTL 30 Introduction to Islamic Studies 4 Units
 (Formerly International Studies 55.)
 (Please see general education pages for the requirement this course meets.)
 Advisory: English Writing 1A or English as a Second Language 5.
 Four hours lecture.

Introduction to Islam as a religious system focusing on its origins, basic sources, brief history, culture, values and its impact on Muslims, non-Muslims and the world.

INTL 33 Introduction to Peace and Conflict Studies 4 Units
 (See general education pages for the requirement this course meets.)
 Advisory: English Writing 1A or English as a Second Language 5.
 (Also listed as Political Science 33. Student may enroll in either department, but not both, for credit.)
 Four hours lecture.

Introduction to a broad range of issues, concepts, and approaches fundamental to the study of peace and conflict predominantly from the discipline of political science but incorporating ethnology, psychology, anthropology, religion, economics, and history. Students assess: the role of international norms, institutions, and states; the impact of religious, philosophical, and cultural influences; and the processes and sources of social change as they relate to upholding peace, culminating in the examination and identification of factors that attend conflict and violence with the intention of applying this understanding toward the prevention, de-escalation, and resolution of conflicts.

INTL 34 Russian Culture: An Introduction to a Nation and People 4 Units
 (Formerly International Studies 54.)
 See general education pages for the requirement this course meets.)
 Advisory: English Writing 1A or English as a Second Language 5.
 Four hours lecture.

An interdisciplinary introduction to the political and cultural development of Russia from the Kievan period through the present.

Internet

(See Computer Applications and Office Systems, Computer Information Systems, and Learning Center.)

Italian

ITAL 1 Elementary Italian (First Quarter) 5 Units
 (See general education pages for the requirement this course meets.)
 Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
 Five hours lecture.

Introduction to the language and cultures of the Italian speaking-countries. Basic speaking, listening, reading, and writing of Italian will be introduced and practiced within a cultural framework. Italian will be the primary language of instruction. Emphasis will be on language as an expression of culture. Language laboratory practice will be part of the regular instruction to reinforce pronunciation, grammar, syntax, and conversation.

ITAL 2 Elementary Italian (Second Quarter) 5 Units
 (See general education pages for the requirement this course meets.)
 Prerequisite: Italian 1 (equivalent to one year of high school Italian) or equivalent.
 Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
 Five hours lecture.

Further development of material presented in Italian 1. Continuation of introduction to the language and cultures of the Italian-speaking countries. Elementary speaking, listening, reading, and writing of Italian will be continued and practiced within a cultural framework. Emphasis will be on language as an expression of culture. Language laboratory will be practiced to reinforce pronunciation, grammar, and syntax.

ITAL 3 Elementary Italian (Third Quarter) 5 Units
 (See general education pages for the requirement this course meets.)
 Prerequisite: Italian 2 (equivalent to two years of high school Italian) or equivalent.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
 Five hours lecture.

Further development of material presented in Italian 1 and 2. Continuation of introduction to the language and cultures of the Italian-speaking countries. Elementary speaking, listening, reading, and writing of Italian will be continued and practiced within a cultural framework. Emphasis will be on language as an expression of culture. Language laboratory will be practiced to reinforce pronunciation, grammar, and syntax.

ITAL 4 Intermediate Italian (First Quarter) 5 Units
 (See general education pages for the requirement this course meets.)
 Prerequisite: Italian 3 (equivalent to three years of high school Italian) or equivalent.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
 Five hours lecture.

Further development of material presented in Italian 1, 2 and 3. Continuation of introduction to the language and cultures of the Italian-speaking countries. Intermediate speaking, listening, reading, and writing of Italian will be continued and practiced within a cultural framework. Emphasis will be on language as an expression of culture. Language laboratory will be practiced to reinforce pronunciation, grammar, and syntax.

Japanese

JAPN 1 Elementary Japanese (First Quarter) 5 Units
 (See general education pages for the requirement this course meets.)
 Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
 Five hours lecture.

Introduction to the language and the culture of Japan. Emphasis will be on language as the primary expression of culture and a medium of communication. Develop four language skills (listening, speaking, reading and writing) as well as sociocultural knowledge which plays an important role in communicating in the target language. Japanese will be the major language of instruction. Oral practice based on understanding of the language structure will be also emphasized. Master of two of the Japanese syllabic writing systems, hiragana and katakana is required.

JAPN 2 Elementary Japanese (Second Quarter) 5 Units
 (See general education pages for the requirement this course meets.)
 Prerequisite: Japanese 1 (equivalent to one year of high school Japanese) or equivalent.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 Five hours lecture.

Continuation of introduction to the Japanese language and culture with the further development of materials presented in Japanese 1. Emphasis will be on acquisition of second-quarter beginner level of four language skills (listening, speaking, reading and writing) as well as sociocultural knowledge which plays an important role in communicating in the target language. Japanese is the major language of instruction. Oral practice based on understanding of the language structure will be also emphasized. In addition to practicing two of the Japanese syllabic writing systems, hiragana and katakana, the third writing system, kanji, Sino-Japanese characters will be introduced.

JAPN 3 Elementary Japanese (Third Quarter) 5 Units
 (See general education pages for the requirement this course meets.)
 Prerequisite: Japanese 2 (equivalent to two years of high school Japanese) or equivalent.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 Five hours lecture.

Continuation of introduction to the Japanese language and culture with further development of materials presented in Japanese 1 and 2. Emphasis will be on acquisition of the third-quarter high beginner level of four language skills (listening, speaking, reading and writing) as well as sociocultural knowledge which plays an important role in communicating in the target language. Oral practice based on understanding of the language structure will be further emphasized. More kanji, Sino-Japanese characters will be introduced. Students are expected to integrate three writing systems in order to demonstrate authentic writing skills.

JAPN 4 Intermediate Japanese (First Quarter) 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Japanese 3 (equivalent to three years of high school Japanese) or equivalent.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

The first-quarter of intermediate Japanese. Introduces the Japanese language and culture with the further development of materials presented in Japanese 3. The emphasis will be on the acquisition of the first-quarter low intermediate level of four language skills (listening, speaking, reading and writing) as well as the sociocultural knowledge which plays an important role in communicating in the target language. Oral practice is based on an understanding of the language structures which will also be further emphasized. More kanji, Sino-Japanese characters will be introduced. Students will develop low intermediate level of reading strategies and writing skills integrating hiragana, katakana and kanji.

JAPN 5 Intermediate Japanese (Second Quarter) 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Japanese 4 (equivalent to four years of high school Japanese) or equivalent.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

The second-quarter of intermediate Japanese. Introduces the Japanese language and culture with further development of materials presented in Japanese 4. The emphasis will be on acquisition of the second-quarter intermediate level of four language skills (listening, speaking, reading, and writing) as well as the sociocultural knowledge which plays an important role in communicating in the target language. Oral practice is based on understanding of the language structures which will also be emphasized. More kanji, Sino-Japanese characters will be introduced. Students will develop intermediate level of reading strategies and writing skills integrating hiragana, katakana, and kanji.

JAPN 6 Intermediate Japanese (Third Quarter) 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Japanese 5 or equivalent.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

The third-quarter of intermediate Japanese. Introduces the Japanese language and culture with further development of materials presented in Japanese 5. The emphasis will be on acquisition of the high intermediate level of four language skills (listening, speaking, reading and writing) as well as the socio-cultural knowledge which plays an important role in communicating in the target language. Oral practice based on understanding of the language structures should also be emphasized. More kanji, Sino-Japanese characters will be introduced. Students will develop high intermediate level of reading strategies and writing skills integrating hiragana, katakana, and kanji.

JAPN 60A Japanese - Introductory Conversation (First Quarter) 3 Units

(Formerly Japanese 90A.)

Three hours lecture.

A practical course designed for students with no previous background of Japanese language. The primary focus of this course is on the development of conversational skills. Lesson 1 through Lesson 10 will be covered. One of the three writing systems, Hiragana, is introduced.

JAPN 60B Japanese - Introductory Conversation (Second Quarter) 3 Units

(Formerly Japanese 90B.)

Prerequisite: Japanese 60A.

Three hours lecture.

The next course in the introductory Japanese sequence following Japanese 60A. The primary focus of this course is on the development of conversational skills. Aspects of business life and practical, daily occurrences are dealt with. Lesson 11 through Lesson 20 will be covered. The second writing system, Katakana, is introduced.

JAPN 60C Japanese - Introductory Conversation (Third Quarter) 3 Units

(Formerly Japanese 90C.)

Prerequisite: Japanese 60B.

Three hours lecture.

The next course in the introductory Japanese sequence following Japanese 60B. The primary focus of this course is on the development of conversational skills. Aspects of business life and practical, daily occurrences are dealt with. Lesson 21 through Lesson 30 will be covered.

JAPN 61A Japanese - Intermediate Conversation (First Quarter) 3 Units

(Formerly Japanese 50A.)

Prerequisite: Japanese 60C.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture.

The next course in the sequence following Japanese 60C. It is designed for students who desire to learn natural spoken Japanese in a limited amount of time. Students use the language through speaking, listening, reading, and writing at the low intermediate level. Aspects of business life and practical daily occurrences are dealt with in this course. Third writing system, Kanji, is introduced.

JAPN 61B Japanese - Intermediate Conversation (Second Quarter) 3 Units

(Formerly Japanese 50B.)

Prerequisite: Japanese 61A.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture.

The next course in the intermediate conversation sequence following Japanese 61A. It is designed for students who desire to learn natural spoken Japanese in a limited amount of time. Students use the language through speaking, listening, reading, and writing at the intermediate level. Aspects of business life and practical daily occurrences are dealt with in this course. More Kanji characters are introduced.

JAPN 61C Japanese - Intermediate Conversation (Third Quarter) 3 Units

(Formerly Japanese 50C.)

Prerequisite: Japanese 61B.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture.

The next course in the intermediate conversation sequence following Japanese 61B. It is designed for students who desire to learn natural spoken Japanese in a limited amount of time. Students use the language through speaking, listening, reading, and writing at the high intermediate level. Aspects of business life and practical daily occurrences are dealt with in this course. More Kanji characters are introduced.

Journalism

JOUR 2 Mass Communication and Its Impact On Society 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

A survey of the mass media and measurement of its impact on culture and society. Mass media effects on global and American institutions. Theories of mass communications in the context of each medium: books, newspapers, magazines, movies, radio, recordings, television and the Internet. Ethical and legal implications of media and their effects on the individual and society. Influences of the media on gender, ethnic and minority issues.

JOUR 21A News Writing and Reporting 3 Units

Prerequisite: English Writing 1A or English as a Second Language 5.

Three hours lecture.

Instruction and practice in reporting and the fundamentals of news writing, with analysis of typical news stories. Concentration on the language and style of news writing; organization and structure of news stories; the lead and the basic story types. Practical writing experience.

JOUR 21B Feature Writing and Reporting 3 Units

Prerequisite: English Writing 1A or English as a Second Language 5.

Three hours lecture.

Fundamentals in feature writing for newspapers and magazines with instruction and practice in profile, human interest, consumer and interpretive news features. Practical experience in interviewing, writing special story types and revising. Freelancing a story for publication.

Journalism Production

Students are encouraged to enroll in only one of the 60 series courses per quarter; any deviation must be approved in advance by the instructor. San Jose State University will accept for journalism credit no more than 12 per quarter units in the Journalism 60 series. Any course in the series is open to non-journalism majors. While previous publications experience is desirable, it is not mandatory. See descriptions of individual courses for prerequisites.

JOUR 61	Newspaper and Student Media Staff	3 Units
<i>Advisory: Journalism 21A or 21B.</i>		
<i>Nine hours laboratory.</i>		
<i>(May be taken up to six times for credit.)</i>		
Practical experience in covering and reporting news and features as members of the college newspaper, magazine or media staff. Staff includes reporters, editors, photojournalists, graphic artists and media producers.		
JOUR 62	Newspaper and Media Freelancing	1 Unit
<i>Three hours laboratory.</i>		
<i>(May be taken up to six times for credit.)</i>		
Practical experience contributing as a freelancer to the college newspaper as a reporter, copy editor, columnist, graphic artist, photographer, or other freelance position.		
JOUR 63	Newspaper Advertising Staff	1 Unit
<i>Three hours laboratory.</i>		
<i>(May be taken up to six times for credit.)</i>		
Experience in advertising as it relates to the college newspaper. Combines functions of advertising and business management. Introduction to advertising sales, design, production and billing.		
JOUR 65W	Literary Magazine	1 Unit
JOUR 65X		2 Units
<i>Advisory: English Writing 1A or English as a Second Language 5.</i>		
<i>(Also listed as English Writing 65 and 65X. Student may enroll in either department, but not both, for credit.)</i>		
<i>Two hours lecture-laboratory for the one-unit course; two hours lecture-laboratory and three hours laboratory for the two unit course.</i>		
<i>(Any combination of English Writing 65, 65X and Journalism 65W, 65X may be taken up to six times for credit. Submissions vary each quarter, so content is different. Students build upon previous experience and develop higher-level skills.)</i>		
<i>Pass-No Pass (P-NP) course.</i>		
Collaborative evaluation and selection of fiction, poetry, photography, drawings, and other literary and artistic work for literary magazine. Magazine design and production. (Additional editorial, production, management, or marketing work for English Writing 65X and Journalism 65X.)		
JOUR 77W	Special Projects in Journalism	1 Unit
JOUR 77X		2 Units
JOUR 77Y		3 Units
JOUR 77Z		4 Units
<i>(Formerly Journalism 70W, 70X, 70Y and 70Z respectively.)</i>		
<i>One hour lecture for each unit of credit.</i>		
<i>(Any combination of Journalism 77W, 77X, 77Y and 77Z may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)</i>		
Special research, writing or study projects in Journalism as determined in consultation with the department chair. (Complexity of project determines number of units assigned.)		
JOUR 78W	Special Topics in Journalism	1 Unit
JOUR 78X		2 Units
JOUR 78Y		3 Units
JOUR 78Z		4 Units
<i>(Formerly Journalism 66W, 66X, 66Y and 66Z respectively.)</i>		
<i>One hour lecture for each unit of credit.</i>		
<i>(Any combination of Journalism 78W, 78X, 78Y and 78Z may be taken up to six times, not to exceed 18 units, as long as the topics are different each time.)</i>		
Intensive study and analysis of a special topic in Journalism. Subjects vary. (Complexity of topic determines number of units assigned.)		

Korean

KORE 1	Elementary Korean (First Quarter)	5 Units
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i>		
<i>Five hours lecture.</i>		
Introduction to the Korean historical and cultural background of the language. Intensive oral practice of basic everyday language functions, written practice, including Hangul, to further understand grammatical and syntactical structures. Language laboratory practice to reinforce pronunciation, grammar and syntax.		
KORE 2	Elementary Korean (Second Quarter)	5 Units
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: Korean 1 (equivalent to one year of high school Korean) or equivalent.</i>		
<i>Five hours lecture.</i>		
Further development of material presented in Korean 1. Intensive oral practice broadening the functions presented in Korean 1 and adding new ones. Greater emphasis on student generated discussion. More emphasis on cultural and historical background in the use of language. Written practice to further understanding of the underlying grammatical and syntactical structures. Language laboratory practice to reinforce pronunciation, grammar and syntax.		

KORE 3	Elementary Korean (Third Quarter)	5 Units
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: Korean 2 (equivalent to two years of high school Korean) or equivalent.</i>		
<i>Five hours lecture.</i>		
Further development of material presented in Korean 1 and 2. Continuation of elementary language skills for oral and written communication in targeted language functions, with focus on greater structural accuracy and communicative competence. Understanding of Korean culture through the analysis of literature. Language laboratory practice to reinforce pronunciation, grammar and syntax.		
KORE 4	Intermediate Korean (First Quarter)	5 Units
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: Korean 3 (equivalent to three years of high school Korean) or equivalent.</i>		
<i>Five hours lecture.</i>		
Review of grammar and discussion of grammatical features beyond the elementary level. Development of reading, writing, speaking and listening skills at the first intermediate level. Reading and discussion of texts dealing with Korean literature, arts, history and culture. Language laboratory practice.		
KORE 5	Intermediate Korean (Second Quarter)	5 Units
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: Korean 4 (equivalent to four years of high school Korean) or equivalent.</i>		
<i>Five hours lecture.</i>		
Review of grammar and discussion of grammatical features beyond the elementary level. Development of reading, writing, speaking and listening skills at the second intermediate level. Reading and discussion of texts dealing with Korean literature, arts, history and culture. Language laboratory practice.		
KORE 6	Intermediate Korean (Third Quarter)	5 Units
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: Korean 5 or equivalent.</i>		
<i>Five hours lecture.</i>		
Continuation of Korean 5. Review of grammar and discussion of grammatical features beyond the elementary level. Development of reading, writing, speaking and listening skills at the third intermediate level. Reading and discussion of texts dealing with Korean literature, arts, history and culture. Language laboratory practice.		

Language Arts

LART 80	Community Based Learning in Language Arts	1/2 Unit
LART 80W		1 Unit
LART 80X		2 Units
LART 80Y		3 Units
LART 80Z		4 Units
<i>Three hours laboratory for each unit of credit.</i>		
<i>(Any combination of Language Arts 80, 80W, 80X, 80Y and 80Z may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.)</i>		
Practical work with a community, business or civic institution and reflection on that activity.		
LART 200	Developing Reading and Writing Connections	10 Units
<i>Credit course - Does not apply to De Anza Associate degree.</i>		
<i>(Not open to students who have completed Reading 200 and/or English Writing 200.)</i>		
<i>Prerequisite: A qualifying score on the Reading and Writing Placement Test.</i>		
<i>Ten hours lecture.</i>		
<i>Pass-No Pass (P-NP) course.</i>		
Development of reading and writing abilities to the level necessary to be successful in Reading 211 and English Writing 211. Comprehension of assigned readings. Writing focused on a central idea, developed with specific examples, organized according to a reasonably clear progression of ideas and largely free of major grammatical, syntactic, usage and diction errors.		
LART 211	Integrated Reading and Writing	10 Units
<i>(Formerly Language Arts 100.)</i>		
<i>Credit course - Does not apply to De Anza Associate degree.</i>		
<i>Prerequisite: Successful completion of Language Arts 200 or Reading 200 and/or English Writing 200; or a qualifying score on the Reading and Writing Placement Test.</i>		
<i>Ten hours lecture.</i>		
<i>Pass-No Pass (P-NP) course.</i>		
Integration of reading and writing skills necessary for success in college level courses. Emphasis on analysis and criticism of assigned readings and written responses to critical questions about those readings.		

Learning Assistance

LRNA 77 Special Projects in Learning Assistance 1 Unit LRNA 77X 2 Units

(Formerly Learning Assistance 99 and 99W respectively.)

Prerequisite: Consent of instructor and division dean.

Two hours lecture-laboratory for each unit of credit.

(Any combination of Learning Assistance 77 and 77X may be taken up to six times as long as the projects are different each time.)

Pass-No Pass (P-NP) course.

Special reading, writing, or study projects in Learning Assistance as determined in consultation with the instructor. Student must concurrently work as a tutor (for pay or volunteer) at the De Anza College Tutorial Center, or similar organization, as determined by instructor.

LRNA 95 Introduction to Peer Tutoring in Math and Science 2 Units

Prerequisite: Must be selected to work as a De Anza tutor.

(Also listed as Physical Sciences, Math, and Engineering 95. Student may enroll in either department, but not both, for credit.)

Two hours lecture.

Pass-No Pass (P-NP) course.

Content-specific strategies and communication skills to help peer tutors of math and science conduct productive, effective, and fun tutoring sessions. Experience applying instructional and learning theory and tutoring techniques to math and science content. Strategies for working with students from diverse backgrounds and with various learning styles. Self-reflection and peer feedback on actual tutoring sessions. Required of all De Anza group and individual math and science tutors during their first quarter of tutoring.

LRNA 96 Introduction to Peer Tutoring in Groups 2 Units

Prerequisite: Must be hired as a De Anza tutor.

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Speech 96. Student may enroll in either department, but not both, for credit.)

Two hours lecture.

Pass-No Pass (P-NP) course.

Introduction to the principles and practices of group tutoring. Development of effective communication and leadership skills to facilitate collaborative, dynamic and productive learning groups in a multicultural environment.

LRNA 97 Introduction to Peer Tutoring in Writing 3 Units

Prerequisite: English Writing 1A or English as a Second Language 5; must be hired to work as a De Anza tutor.

(Also listed as English Writing 97. Student may enroll in either department, but not both, for credit.)

Three hours lecture.

Required training for De Anza writing tutors. Introduction to the theory and practice of tutoring writing, including strategies and approaches to help students from diverse linguistic backgrounds at various stages of the writing process. Students read about, observe, discuss, write about and practice the craft of tutoring writing. After an initial orientation, students in the class begin tutoring, and reflect on their tutoring experiences as part of the class.

LRNA 98 Introduction to Tutor Training for Individual General Subject Tutors 2 Units

Credit course - Does not apply to De Anza Associate degree.

Advisory: Must be selected to work as a De Anza tutor.

Two hours lecture.

Pass-No Pass (P-NP) course.

Required of all De Anza individual general subject tutors during their first quarter of tutoring. Strategies and communication skills to help peer tutors conduct productive, effective, and fun tutoring sessions. Experience reflecting on instructional and learning theory and practicing theory-based tutoring techniques. Strategies for working with students from diverse backgrounds and with various learning styles. Self-reflection and peer feedback on actual tutoring sessions.

LRNA 200 Supervised Tutoring 0 Units

Non-credit course - Does not apply to De Anza Associate degree.

Prerequisite: Student must be referred by counselor or instructor on the basis of an identified learning need.

(No limit on repeatability for 0 unit courses.)

Optional learning assistance to strengthen students' study and learning skills for the appropriate basic skills courses. Learning assistance is provided in a designated De Anza center by trained and approved De Anza tutors.

LRNA 201 Supervised Tutoring in Language Arts 0 Units

Non-credit course - Does not apply to De Anza Associate degree.

Prerequisite: Student must be referred by counselor or instructor on the basis of an identified learning need.

(No limit on repeatability for 0 unit courses.)

Optional learning assistance to strengthen students' learning skills and reinforce mastery of concepts in the appropriate basic skills parent courses in Language Arts. Learning assistance is provided in a designated De Anza center by approved tutors who are trained in tutoring for specific content areas.

LRNA 202 Supervised Tutoring in Math 0 Units

Non-credit course - Does not apply to De Anza Associate degree.

Prerequisite: Student must be referred by counselor or instructor on the basis of an identified learning need.

(No limit on repeatability for 0 unit courses.)

Optional learning assistance to strengthen students' learning skills and reinforce mastery of concepts taught in the appropriate parent course or courses in basic skills math. Learning assistance is provided in a designated De Anza center by approved De Anza tutors who are trained in tutoring for specific content areas.

Learning Center

LCEN 50 Introduction to Online Research 1 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Two hours lecture-laboratory.

Introduces skills needed to locate, evaluate, and cite information found on the Internet and in subscription databases. Prepares students to do the basic research necessary to effectively complete written and oral assignments.

LCEN 51 Business Resources on the World Wide Web 1 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Two hours lecture-laboratory.

Locate, examine, and evaluate business-related sites available on the World Wide Web.

LCEN 53 Advanced Internet Search Techniques 1 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Two hours lecture-laboratory.

Provides Internet users with tools and information to effectively search and evaluate Internet Web sites. Also introduces the concept of the "hidden web" -- information that is not indexed by search engines such as Google and Yahoo.

LCEN 55 Emerging Internet Technologies -- A Crash Course 1 Unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Two hours lecture-laboratory.

Introduces students to emerging Internet technologies and links these ongoing transitions to information research. Currently referred to as "Web 2.0", today's Internet includes photography and image postings, blogs, wikis, and RSS feeds. Skills for locating and using these new applications will be studied.

Linguistics

LING 1 Introduction to Linguistics 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as English Literature 25. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Introduction to the nature of language. Origin and development of spoken and written languages, how people learn languages, and how languages change, with emphasis on the history of English. Basics of linguistic description including systems of phonetics and phonology, semantics, morphology and syntax. Study of general linguistic principles as they apply across languages.

Mandarin

MAND 1	Elementary Mandarin (First Quarter)	5 Units
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i>		
<i>Five hours lecture.</i>		
Introduction to the language and cultures of Mandarin-speaking countries and communities. Basic speaking, listening, reading, and writing of Mandarin will be introduced and practiced within a cultural framework. Mandarin will be the primary language of instruction. Emphasis will be on language as an expression of culture and a medium of communication.		
MAND 2	Elementary Mandarin (Second Quarter)	5 Units
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: Mandarin 1 (equivalent to one year of high school Mandarin) or equivalent.</i>		
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i>		
<i>Five hours lecture.</i>		
Further development of material presented in Mandarin 1. Continuation of introduction to the language and cultures of Mandarin-speaking countries and communities. Speaking, listening, reading, and writing of Mandarin will be continued and practiced within a cultural framework. Mandarin will be the primary language of instruction. Emphasis will be on language as an expression of culture and a medium of communication.		
MAND 3	Elementary Mandarin (Third Quarter)	5 Units
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: Mandarin 2 (equivalent to two years of high school Mandarin) or equivalent.</i>		
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i>		
<i>Five hours lecture.</i>		
Further development of material presented in Mandarin 1 and 2. Completion of introduction to the language and cultures of Mandarin-speaking countries and communities. Basic speaking, listening, reading, and writing of Mandarin will be further introduced and practiced within a cultural framework. Mandarin will be the primary language of instruction. Emphasis will be on language as an expression of culture and a medium of communication.		
MAND 4	Intermediate Mandarin (First Quarter)	5 Units
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: Mandarin 3 (equivalent to three years of high school Mandarin) or equivalent.</i>		
<i>Five hours lecture.</i>		
Read and discuss texts dealing with geography, history, social and cultural practices of the Chinese-speaking world. Review the linguistic functions and grammatical structures of first-year Chinese. Speaking, listening, reading, and writing of Mandarin will be introduced and practiced within a cultural framework. Mandarin will be the primary language of instruction. Emphasis will be on language as an expression of culture and a medium of communication. Develop reading, listening, speaking and writing skills at the high intermediate level. Language laboratory practice will be part of the regular instruction to reinforce pronunciation, grammar, syntax, and conversation.		
MAND 5	Intermediate Mandarin (Second Quarter)	5 Units
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: Mandarin 4 (equivalent to four years of high school Mandarin) or equivalent.</i>		
<i>Five hours lecture.</i>		
Continuation of Mandarin 4. Read and discuss texts dealing with geography, history, social and cultural practices of the Chinese-speaking world. Review the linguistic functions and grammatical structures of intermediary Chinese. Speaking, listening, reading, and writing of Mandarin will be introduced and practiced within a cultural framework. Mandarin will be the primary language of instruction. Emphasis will be on language as an expression of culture and a medium of communication. Develop reading, listening, speaking and writing skills at the low advanced level. Language laboratory practice will be part of the regular instruction to reinforce pronunciation, grammar, syntax, and conversation.		
MAND 6	Intermediate Mandarin (Third Quarter)	5 Units
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: Mandarin 5 or equivalent.</i>		
<i>Five hours lecture.</i>		
Continuation of Mandarin 5. Read, discuss and analyze texts dealing with arts, geography, history, literature, social and cultural practices of the Chinese-speaking world. Review the linguistic functions and grammatical structures of intermediary Chinese. Speaking, listening, reading, and writing of Mandarin will be introduced and practiced within a cultural framework. Mandarin will be the primary language of instruction. Emphasis will be on language as an expression of culture and a medium of communication. Develop reading, listening, speaking and writing skills at the advanced level. Language laboratory practice will be part of the regular instruction to reinforce pronunciation, grammar, syntax, and conversation.		

MAND 60A	Mandarin - Introductory Conversation (First Quarter)	3 Units
<i>(Formerly Mandarin 90A.)</i>		
<i>Three hours lecture.</i>		
Introduction to the language and cultures of Mandarin-speaking countries and communities. Spoken Chinese will be introduced with focus on pronunciation and vocabulary, in connection with elements of Chinese culture necessary to understand the language. Intensive drills in the patterns and idioms of daily speech will be supported by sufficient grammar to give flexibility in the spoken language.		
MAND 60B	Mandarin - Introductory Conversation (Second Quarter)	3 Units
<i>(Formerly Mandarin 90B.)</i>		
<i>Prerequisite: Mandarin 60A.</i>		
<i>Three hours lecture.</i>		
The next course in the introductory conversation Mandarin course sequence, following Mandarin 60A. Continues the introduction to the language and cultures of Mandarin-speaking countries and communities. The vocabulary and grammatical structures mastered in Mandarin 60A will be consolidated and further developed, in conjunction with elements of Chinese culture. The course emphasizes practical communication for everyday use and business, particularly conversational fluency.		
MAND 60C	Mandarin - Introductory Conversation (Third Quarter)	3 Units
<i>(Formerly Mandarin 90C.)</i>		
<i>Prerequisite: Mandarin 60B.</i>		
<i>Three hours lecture.</i>		
The next course in the introductory conversation Mandarin sequence, following Mandarin 60B. Continues the introduction to the language and cultures of Mandarin-speaking countries and communities. The vocabulary and grammatical structures mastered in Mandarin 60B will be consolidated and further developed, in conjunction with elements of Chinese culture. Elements of Chinese for business are introduced. Mandarin 60C is focused on speaking and comprehension proficiency.		
MAND 61A	Mandarin - Intermediate Conversation (First Quarter)	3 Units
<i>(Formerly Mandarin 50A.)</i>		
<i>Prerequisite: Mandarin 60C or equivalent.</i>		
<i>Three hours lecture.</i>		
The first course in the intermediate conversation Mandarin course sequence, following Mandarin 60C. Continues the introduction to the language and cultures of Mandarin-speaking countries and communities. The vocabulary and grammatical structures mastered in Mandarin 60C will be consolidated and further developed, in conjunction with elements of Chinese culture. Elements of Chinese for business are further introduced. Mandarin 61A is focused on speaking and comprehension proficiency near native speaker level.		
MAND 61B	Mandarin - Intermediate Conversation (Second Quarter)	3 Units
<i>(Formerly Mandarin 50B.)</i>		
<i>Prerequisite: Mandarin 61A or equivalent.</i>		
<i>Three hours lecture.</i>		
The next course in the intermediate conversation Mandarin course sequence, following Mandarin 61A. Continues the introduction to the language and cultures of Mandarin-speaking countries and communities. The vocabulary and grammatical structures mastered in Mandarin 61A will be consolidated and further developed, in conjunction with elements of Chinese culture. Elements of Chinese for business are further introduced including a meeting conversation. Mandarin 61B is focused on speaking and comprehension proficiency near native speaker level.		
MAND 61C	Mandarin - Intermediate Conversation (Third Quarter)	3 Units
<i>(Formerly Mandarin 50C.)</i>		
<i>Prerequisite: Mandarin 61B or equivalent.</i>		
<i>Three hours lecture.</i>		
The advanced level of conversation, following Mandarin 61B. Continues the introduction to the language and cultures of Mandarin-speaking countries and communities. The vocabulary and grammatical structures mastered in Mandarin 61B will be consolidated and further developed, in conjunction with elements of Chinese culture. Elements of Chinese for business are further introduced including make business presentations, conducting simple business negotiations, and travel Chinese. Mandarin 61C is focused on speaking and comprehension proficiency at native speaker level.		

M Manufacturing and CNC Technologies

MCNC 56 Special Projects in Manufacturing and CNC 1 Unit **MCNC 56X 2 Units** **MCNC 56Y 3 Units**

Prerequisite: Consent of instructor and division dean.

Three hours laboratory for each unit of credit.

(Any combination of Manufacturing and CNC 56, 56X and 56Y may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)

Projects advancing student's knowledge and experience in a selected area of Manufacturing and CNC Technology. Project type and design will be determined through consultation with the instructor.

MCNC 61A Survey of Writing and Data Communications 2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; keyboarding skills 40 words per minute minimum.

Four hours lecture-laboratory.

The application of word processing and spreadsheet programs to communicate technical information used in various fields of technology including manufacturing, product design, nursing, and similar disciplines.

MCNC 61B Project Designer's Portfolio 2 Units

Prerequisite: Manufacturing and CNC 61A with a grade of C or better.

Four hours lecture-laboratory.

Overview of the steps and procedures required to plan, develop and promote a manufactured product or business related project. Completion of a project designer's portfolio for submission to potential employers.

MCNC 62A Technical Calculations 2 Units

(Formerly Manufacturing and Design Technology 62A.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

The application of fundamental mathematics to various fields of technology including machining, automotive, sheet metal, and similar disciplines. Review and development of arithmetic skills, introduction of basic algebraic concepts and metric conversion. The use of a scientific calculator in problem solving will be emphasized.

MCNC 62B Intermediate Technical Calculations 2 Units

(Formerly Manufacturing and Design Technology 62B.)

Prerequisite: Manufacturing and CNC 62A.

Four hours lecture-laboratory.

The application of fundamental mathematics to various fields of technology including machining, automotive, mechanical drafting, sheet metal, nursing and similar disciplines. Review and development of algebraic skills, plane geometry, geometric constructions, and trigonometric concepts. The use of a scientific calculator in problem solving is essential.

MCNC 62C Advanced Technical Calculations 2 Units

Prerequisite: Manufacturing and CNC 62B with a grade of C or better.

Four hours lecture-laboratory.

Review and development of fundamental algebraic operations on real numbers and real variables with emphasis on linear functions and equations, polynomials, rational expressions and equations, and plane geometry. Elementary trigonometry and their applications as they relate to applied technologies.

MCNC 64 Manufacturing Materials and Processes 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; or Manufacturing and CNC 62A.

Two hours lecture, four hours lecture-laboratory.

Applied materials and process analysis. Materials and process selection techniques. The role of metals, polymers, ceramics and composites in the casting, molding, forging, forming, machining, joining, heat and surface treatment processes.

MCNC 71 Introduction to Machining and CNC Processes 4 1/2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Mathematics 210 or equivalent.

Nine hours lecture-laboratory.

Manufacturing lab safety. Precision measuring tools and practices. Basic manual machine operations: pedestal grinders, drill presses, saws, lathes and milling machines. Threads: types, applications and use of taps and dies. Computer Numerical Control (CNC) mills: axis moves, cutters, tooling, basic setup and controller function. Cutter speed and feed calculations.

MCNC 72 Applied Geometric Inspection Dimensioning and Tolerancing (ANSI Y14.5m); Coordinate Measuring Machines (CMM) 3 Units

(Formerly Manufacturing and Design Technology 72.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Mathematics 210 or equivalent; experience in blueprint reading.

Six hours lecture-laboratory.

Interpretation of specifications and inspection procedures related to current ASME Y14.5 Geometric Dimensioning and Tolerancing (GD&T) standards. Applications and capabilities of precision measuring tools, including the computer-aided Coordinate Measuring Machine (CMM), used in manufacturing environments to inspect discrete complex parts. Machine and inspected part set-up for measuring form, orientation, and position call outs.

MCNC 74A Survey of Computer Drawings 2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

Principles and applications of computer drawings using industry standard software. Emphasis is on 3-D and articulated drawings.

MCNC 74B Survey of Computer Aided Design 2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Mathematics 210 or equivalent.

Four hours lecture-laboratory.

Principles and applications of computer aided design (CAD) using industry standard software. Emphasis is on 2-D drawings.

MCNC 74C Introduction to 3D Computer Aided Design 2 Units

Prerequisite: Manufacturing and CNC 74B.

Four hours lecture-laboratory.

Principles and applications of computer aided design (CAD) using industry standard software. Emphasis on three-dimensional architectural drawings.

MCNC 74D Survey of Industrial Mechanisms 2 Units

Prerequisite: Manufacturing and CNC 62B and 74B with a grade of C or better, or equivalent.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

The application of basic physical principles to the operation and design of mechanical and hydraulic mechanisms.

MCNC 75A Introduction to Computer-Aided Numerical Control (CNC) Programming and Operation; Mills 4 1/2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Mathematics 210 or equivalent; Manufacturing and CNC 71 or experience in machining processes.

Nine hours lecture-laboratory.

Introduction to mill tool path programming using G & M code format. CNC systems and components including machine controller functions and operations. Program entry, editing, and back plotting. Calculation for mill cutter compensation. Precision inspection techniques. Basic mill setups, including cutting tool selection, and work holding.

MCNC 75B Computer-Aided Numerical Control (CNC) Programming and Operation; Lathes, Advanced Mills 4 1/2 Units

Prerequisite: Manufacturing and CNC 75A with a grade of C or better, or equivalent.

Nine hours lecture-laboratory.

Introduction to lathe tool path programming using word address format, including coordinate system, cutter compensation and canned cycles. Advanced mill programming; sub programs, work coordinate system and use of macros. Program entry, editing, and back plotting. Machine controller functions and operations. Single point threading and Unified thread form classes and measurement. Cutting tool insert selection.

MCNC 75C CNC Lathes and Horizontal Machining Centers; Programming and Operation, 4th Rotary Axis, Fixture Design 4 1/2 Units

Prerequisite: Manufacturing and CNC 75B with a grade of C or better.

Nine hours lecture-laboratory.

CNC lathe tool path programming using G and M code format, including tool orientation and compensation and canned cycles. Programming for CNC horizontal machining centers and 4th axis rotary tables. Horizontal machining center and lathe controller functions, setup and operations. Fixture design for mills and lathes; base plate layout, supporting, locating, and clamping practices.

MCNC 76A CAD/CAM Based Computer Numerical Control Programming Using Mastercam 4 1/2 Units

(Students may receive credit for only one Manufacturing and CNC 76 course with an A through E designation.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Mathematics 210 or equivalent; basic understanding of mill and lathe operations.

Nine hours lecture-laboratory.

Introduction to Mastercam three axis mill programming. Create part geometry, define tools and tool paths, using post-processors to produce word-address format programs.

MCNC 76B CAD/CAM Based Computer Numerical Control Programming Using Mastercam 4 1/2 Units

(Students may receive credit for only one Manufacturing and CNC 76 course with an A through E designation.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Mathematics 210 or equivalent; basic understanding of mill and lathe operations.

Nine hours lecture-laboratory.

Introduction to Mastercam three axis mill programming. Create part geometry, define tools and tool paths, using post-processors to produce word-address format programs.

MCNC 76F CAD/CAM Based Computer Numerical Control Programming Using Mastercam 4 1/2 Units

(Students may receive credit for only one Manufacturing and CNC 76 course with an F through J designation.)

Prerequisite: Manufacturing and CNC 76A.

Nine hours lecture-laboratory.

Programming procedures using wireframe, splines, and surface modeling. Rough, finish, and high speed machining. Editing, post-processing, verifying programs.

MCNC 76G CAD/CAM Based Computer Numerical Control Programming Using Mastercam 4 1/2 Units

(Students may receive credit for only one Manufacturing and CNC 76 course with an F through J designation.)

Prerequisite: Manufacturing and CNC 76B.

Nine hours lecture-laboratory.

Programming procedures using wireframe, splines, and surface modeling. Rough, finish, and high speed machining. Editing, post-processing, verifying programs.

MCNC 76L CAD/CAM Based Computer Numerical Control Programming Using Mastercam 4 1/2 Units

(Students may receive credit for only one Manufacturing and CNC 76 course with an L through Q designation.)

Prerequisite: Manufacturing and CNC 76B.

Nine hours lecture-laboratory.

Advanced Mastercam; complex surfacing for milling machines and contouring surfaces for lathes. Tooling, workflow and programming for horizontal machining centers.

MCNC 77 Machining Practices Using Conventional Machine Tools, Tool Design, Abrasive Machining 4 1/2 Units

Prerequisite: Manufacturing and CNC 71 with a grade of C or better or equivalent.

Nine hours lecture-laboratory.

Advanced machining practices using conventional machine tools. Introduction to fixture design including location and clamping methods and computation of fits and allowances. Abrasive machining.

MCNC 200 Open Manufacturing and CNC Technology Laboratory 1/2 Unit

MCNC 200X 1 Unit
MCNC 200Y 1 1/2 Units
MCNC 200Z 2 Units

(Formerly Manufacturing and CNC Technologies 100, 100X, 100Y and 100Z respectively.)

Credit course - Does not apply to De Anza Associate degree.

Corequisite: Manufacturing and CNC 200, 200X, 200Y and 200Z students must also enroll in any Manufacturing and CNC Technology course.

Three hours laboratory for each unit of credit.

(May be taken up to six times for credit as long as the corequisite is satisfied.)

Pass-No Pass (P-NP) course.

Use of Manufacturing and CNC Technology labs for those who need/desire more time to complete machining and/or CNC programs, projects and exercises.

Mathematics

MATH 1A Calculus 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Mathematics 43 or 49B (with a grade of C or better), or appropriate score on the Calculus Placement Test within the past calendar year.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Fundamentals of differential calculus.

MATH 1B Calculus 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Mathematics 1A and one of the following: Mathematics 43 or 49B (with a grade of C or better), or appropriate score on the Calculus Placement Test within the past calendar year.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Fundamentals of integral calculus.

MATH 1C Calculus 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Mathematics 1B with a grade of C or better; or equivalent.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Infinite series, lines and surfaces in three dimensions, vectors in two and three dimensions, parametric equations of curves. Derivatives and integrals of vector functions.

MATH 1D Calculus 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Mathematics 1C with a grade of C or better; or equivalent.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Partial derivatives, Multiple Integrals, Vector Calculus.

MATH 2A Differential Equations 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Mathematics 1D with a grade of C or better.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Ordinary differential equations and selected applications.

MATH 2B Linear Algebra 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Mathematics 1D with a grade of C or better.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Linear algebra and selected topics of mathematical analysis.

MATH 10 Elementary Statistics and Probability 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Mathematics 114 or equivalent with a grade of C or better; or a qualifying score on the Intermediate Algebra Placement Test within the past calendar year.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Introduction to data analysis making use of graphical and numerical techniques to study patterns and departures from patterns. The student studies randomness with an emphasis on understanding variation, collects information in the face of uncertainty, checks distributional assumptions, tests hypotheses, uses probability as a tool for anticipating what the distribution of data may look like under a set of assumptions, and uses appropriate statistical models to draw conclusions from data. Introduces the student to applications in engineering, business, economics, medicine, education, the sciences, and those pertaining to issues of contemporary interest. The use of technology (computers or graphing calculators) will be required in certain applications. Where appropriate, the contributions to the development of statistics by men and women from diverse cultures will be introduced.

MATH 11 Finite Mathematics 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Qualifying score on the Math Placement Test within the past calendar year; or Mathematics 114 or equivalent with a grade of C or better.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Application of linear equations, sets, matrices, linear programming, mathematics of finance and probability to real-life problems. Emphasis on the understanding of the modeling process, and how mathematics is used in real-world applications.

MATH 12 Introductory Calculus for Business and Social Science 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Mathematics 11.

Five hours lecture.

Introduction to limits, differentiation, and integration of single variable functions. Differentiation of multivariate functions. Applications in business, economics, and social science.

MATH 22 Discrete Mathematics 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Mathematics 41 or 49A (with a grade of C or better), or equivalent.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Elements of discrete mathematics with applications to computer science. Topics include methods of proof, mathematical induction, logic, sets, relations, graphs, combinatorics, and Boolean algebra.

MATH 23 Engineering Statistics 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Mathematics 1C with a grade of C or better.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Engineering statistics provides a comprehensive introduction to probabilistic and statistical modeling for students in engineering, economics, finance and related disciplines in the mathematical sciences. The course exposes students to a variety of applications requiring decision making in the face of uncertainty. Topics covered include the collection and analysis of information, making use of graphical and numerical techniques, discrete, continuous, cumulative, and joint probability distribution functions and use of statistical inference, experimental design, and equation fitting, when appropriate. Many of the applications require the use of technology (computers and graphic calculators). Computer simulations are used to illustrate difficult topics and provide visualization of advanced theoretical results (e.g. the Central Limit Theorem.)

MATH 41 Precalculus I: Theory of Functions 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Mathematics 114 or equivalent (with a grade of C or better); or a satisfactory score on the College Level Math Placement Test within the last calendar year.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Polynomial, rational, exponential and logarithmic functions, graphs, solving equations.

MATH 43 Precalculus III: Advanced Topics 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Mathematics 41 and 52 (both with a grade of C or better); or a satisfactory score on Calculus Readiness test within the last calendar year.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Conic sections, parametric equations, systems of equations and inequalities, vectors, lines and planes, sequences and series, polar coordinates, mathematical induction, and the binomial theorem.

MATH 44 Introduction to Contemporary Mathematics 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Qualifying score on the Intermediate Algebra Placement Test within the past calendar year; or Mathematics 114 or equivalent with a grade of C or better.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

A survey of selected topics from contemporary mathematics, including problem solving techniques and connections between mathematics and culture. Includes a selection of introductory topics from symmetry; graph theory; chaos and fractals; topology; number theory; geometry; combinatorics and counting; the mathematics of social choice; data analysis, probability and statistics; consumer mathematics and personal financial management.

MATH 46 Mathematics for Elementary Education 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Mathematics 114 with a grade of C or better.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Education 46. Student may enroll in either department, but not both, for credit.)

Five hours lecture.

Designed for prospective elementary and middle school teachers. An introduction to the discipline of mathematics as the use of logical, quantitative, and spatial reasoning in the abstraction, modeling, and problem solving of real-world situations. The main topics in the course include the origins of mathematics, mathematical reasoning and problem solving strategies, theory of sets, integers and integral number theory, rational numbers and proportion, real numbers and decimal notation, and measurement. Throughout the course students will experience the learning of mathematics in a way that models how they can create an active learning environment for their future students.

MATH 49A Pre-Calculus Algebra 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Mathematics 51 with a grade of C or better, or satisfactory score on Calculus Readiness Test within the last calendar year.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Polynomial, rational, exponential and logarithmic functions, graphs, solving equations; conic sections.

MATH 49B Pre-Calculus Algebra 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Mathematics 49A with a grade of C or better, or satisfactory score on the Calculus Readiness Test within the last calendar year.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Systems of equations and inequalities, vectors, lines and planes, sequences and series, polar coordinates.

MATH 52 Precalculus II: Trigonometric Functions 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Mathematics 61 (with a grade of C or better); or a satisfactory score on the College Level Math Placement Test within the last calendar year.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

The theory of trigonometric functions and their applications.

MATH 77 Special Projects in Mathematics 1 Unit
MATH 77X 2 Units
MATH 77Y 3 Units

Prerequisite: Consent of instructor and division dean.

Three hours laboratory for each unit of credit.

(Any combination of Mathematics 77, 77X and 77Y may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)

Pass-No Pass (P-NP) course.

Individual special reading, writing, or study projects in mathematics as determined in consultation with the instructor.

MATH 104 Applied Algebra Plus 7 Units

(Students may receive credit for either Mathematics 104 or 212, but not both.)

Prerequisite: Qualifying score on the Math Placement Test within the last calendar year; or Mathematics 210 or equivalent.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Seven hours lecture; or five hours lecture, four hours lecture-laboratory.

Fundamental algebraic operations on real numbers and real variables with emphasis on linear functions and equations, polynomials, plane geometry, elementary trigonometry and their applications as they relate to applied technologies.

MATH 114 College Math Preparation Level 3: Intermediate Algebra 5 Units

Prerequisite: Qualifying score on the Math Placement Test within last calendar year; or Mathematics 212 with a grade of C or better, or equivalent.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture; or four hours lecture and two hours lecture-laboratory.

Application of exponential and logarithmic functions, rational functions, and sequences and series to problems. Emphasis on the development of models of real world applications and interpretation of their characteristics.

MATH 201 Pre-Algebra Refresher 1/2 Unit
Credit course - Does not apply to De Anza Associate degree.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
One and one-half hours laboratory.
Pass-No Pass (P-NP) course.
 Review of content of Mathematics 210 including basic arithmetic, estimation, variables, linear equations and their graphs. This is a self-paced, computer-based course. A diagnostic will determine areas needing review and students will be required to master the identified topics.

MATH 202 Beginning Algebra Refresher 1/2 Unit
Credit course - Does not apply to De Anza Associate degree.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
One and one-half hours laboratory.
Pass-No Pass (P-NP) course.
 Review of content of Mathematics 212 including linear functions, quadratic functions, linear systems and their applications. This is a self-paced, computer-based course. A diagnostic will determine areas needing review and students will be required to master the identified topics.

MATH 203 Intermediate Algebra Refresher 1/2 Unit
Credit course - Does not apply to De Anza Associate degree.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
One and one-half hours laboratory.
Pass-No Pass (P-NP) course.
 Review of content of Mathematics 114, including exponential functions, logarithmic functions, rational functions, sequences and series and their applications. This is a self-paced, computer-based course. A diagnostic will determine areas needing review and students will be required to master the identified topics.

MATH 210 College Math Preparation Level 1: Pre-Algebra 5 Units
(Formerly Mathematics 110.)
Credit course - Does not apply to De Anza Associate degree.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Five hours lecture; or four hours lecture and two hours lecture-laboratory.
 Use of basic arithmetic in application problems, estimation, the real number system, variables and linear equations, graphs of linear equations and the Cartesian coordinate system, the concept of function.

MATH 212 College Math Preparation Level 2: Beginning Algebra 5 Units
(Formerly Mathematics 112.)
Credit course - Does not apply to De Anza Associate degree.
Prerequisite: Qualifying score on the Math Placement Test within last calendar year; or Mathematics 210 with a grade of C or better, or equivalent.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Five hours lecture; or four hours lecture and two hours lecture-laboratory.
 Application of linear functions, quadratic functions and linear systems to problems. Emphasis on the development of models of real world applications and interpretation of their characteristics.

MATH 241 Academic Excellence in Precalculus 1 Unit
(Formerly Mathematics 249A.)
Credit course - Does not apply to De Anza Associate degree.
Corequisite: Mathematics 241 students must also enroll in Mathematics 61.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Three hours laboratory.
 Critical thinking and skills reinforcement in a precalculus setting: cooperative learning/study techniques, concept development related to polynomial, rational, exponential and logarithmic functions and their graphs, and use of technology.

MATH 243 Academic Excellence in Precalculus 1 Unit
(Formerly Mathematics 249B.)
Credit course - Does not apply to De Anza Associate degree.
Corequisite: Mathematics 243 students must also enroll in Mathematics 63.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Three hours laboratory.
 Critical thinking and skills reinforcement in a precalculus setting: cooperative learning/study techniques; concept development related to conic sections, vectors and polar and three dimensional coordinates and equations, systems of equations and inequalities, parametric equations and sequences and series, and mathematical induction and the binomial theorem; and use of technology.

MATH 252 Academic Excellence in Trigonometry 1 Unit
(Formerly Mathematics 251.)
Credit course - Does not apply to De Anza Associate degree.
Corequisite: Mathematics 252 students must also enroll in Mathematics 52.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Three hours laboratory.
 Critical thinking and skills reinforcement in a trigonometry setting: cooperative learning/study techniques, concept development, and use of technology.

Meteorology

MET 10 Weather Processes 4 Units
(See general education pages for the requirement this course meets.)
Prerequisite: Mathematics 210 or equivalent.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Four hours lecture.
 Introduction to the principles of the science of meteorology including: history of the science; origin, evolution and structure of the atmosphere; major atmospheric variables that determine weather; global and local wind circulations; air masses and frontal systems; birth and development of extra tropical and tropical cyclones and associated severe weather phenomena; weather map analysis and interpretation; objective techniques used by meteorologists to forecast weather.

MET 10L Meteorology Laboratory 1 Unit
(Formerly Meteorology 50L.)
(See general education pages for the requirement this course meets.)
Prerequisite: Mathematics 210 or equivalent; Meteorology 10 (may be taken concurrently).
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Three hours laboratory.
 Introductory weather lab in which students work with observational data, graphics products, charts and instruments used by synoptic meteorologists to forecast weather. Lab sessions will include current weather products downloaded from the American Meteorological Society's "Online Weather Studies" homepage which has been specifically design for this course and from De Anza College's automated rooftop weather station. Students will practice the analysis and decision-making skills employed by meteorologists to diagnose air patterns, understand air motions and predict future atmospheric conditions.

MET 77 Special Projects in Meteorology 1 Unit
MET 77X 2 Units
MET 77Y 3 Units
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit.
(Any combination of Meteorology 77, 77X and 77Y may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)
Pass-No Pass (P-NP) course.
 Individual research projects in Meteorology as determined in consultation with the instructor. Outside reading and written reports(s) required. These projects are on topics not covered in the regular Meteorology curriculum and require the approval of the PSM&E Division Dean.

Military Studies

Military Studies includes the following: Military Science (Army Reserve Officer's Training Corps [ROTC]), Aerospace Studies (Air Force ROTC), and Naval Science (Naval ROTC). Army ROTC courses are offered at Santa Clara University. Aerospace Studies are offered at San Jose State University. The Naval/Marine ROTC program is offered at the University of California at Berkeley; however, it does not have a community college component at this time.

NOTE: Lower-division ROTC programs are open to all students and there is no military obligation incurred. However, ROTC scholarships and military commissions do have specific qualifications and commitments. While all students are eligible to take ROTC courses, not all students who take ROTC courses will be eligible for either a scholarship or a military commission.

REGISTRATION NOTE: To register from a community college for ROTC courses, please contact Mission College or West Valley College. De Anza College does not currently provide for ROTC registration for De Anza College students. For further information, please contact the Biological and Health Sciences Division 408.864.8773.

Aerospace Studies

(Air Force Reserve Officers Training Corps) The Air Force Reserve Officer Training Program (Air Force ROTC) at San Jose State University offers a high quality educational experience structured for all college students. It gives students the opportunity to learn excellent leadership and management skills while training to become a commissioned officer in the Air Force. Academic instruction includes Air Force organization, history, officer skills, leadership and management, and national security policy and issues. Students find out first hand what the Air Force has to offer for scholarships while they are in school and what career opportunities await them after graduation with a Bachelors Degree.

For direct information on the Air Force ROTC program at San Jose State University, contact the Aerospace Studies Department at San Jose State University at 408.924.2960.

Military Science

(Army Reserve Officers Training Corps) The Army Reserve Officer Training Program (Army ROTC) program at Santa Clara University offers a high quality educational experience open to all students. The program is designed to develop men's and women's management skills and leadership abilities for successful careers in both the corporate world and the military. Instruction is conducted on and off the Santa Clara University campus. All courses offered by the Military Science Department are fully accredited and applicable toward fulfilling academic requirements for graduation at Santa Clara University. Through this voluntary program, Santa Clara University offers all eligible students the opportunity to obtain an officer's commission in the U.S. Army Reserve, National Guard, or active Army, while earning their college degree.

For direct information on the Army ROTC program at Santa Clara University, contact the Department of Military Science at Santa Clara University at 408.554.4033.

Naval Science

(Navy Reserve Officers Training Corps) The Department of Naval Science at the University of California, Berkeley, offers several programs of instruction for men and women leading to reserve commissions in the U.S. Navy or U.S. Marine Corps. There are no Navy ROTC programs available for community college students. For information on the four year institution Navy ROTC program, please contact the Department of Naval Science at 510.642.3551.

Music

MUSI 1A Introduction to Music: Music in Western Cultures 4 Units

(Formerly Music 1.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Introduction to the discipline of music; methods of understanding music available in modern culture; listening techniques; use of fundamental concepts including form, style, musical media, and textures; acquaintance with and comparison of musical examples from various eras and cultures; roles of music in society.

MUSI 1B Introduction to Music: Jazz Styles 4 Units

(Formerly Music 7A.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Introduction to the discipline of music through American Jazz; from its multicultural origins to the present; listening skills and use of fundamental musical elements for distinguished jazz styles; social issues, noted performers, and technological advancements found in jazz.

MUSI 1C Introduction to Music: World Music in America 4 Units

(Formerly Music 7B.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

An introduction to music through world music and its influence on current musical trends in the United States. Music of diverse cultures which may include Native Americans, Asia/Pacific Rim, India, Africa, South and Central America, Mexico, and the Caribbean are presented in conjunction with American and European traditions; listening skills for distinguishing musical cultures, instrumentations, and artists.

MUSI 1D Introduction to Music: Rock - from Roots to Rap 4 Units

(Formerly Music 59.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

An introduction to music through rock music, tracing its beginnings in the early 1950s to the present. Various rock styles will be related to the historical trends and events of the time period being studied; listening techniques; use of fundamental concepts including form, style, musical media, and textures; acquaintance with and comparison of musical examples from various styles.

MUSI 3A Comprehensive Musicianship (First Quarter) 4 Units

Three hours lecture, two hours lecture-laboratory.

Basic knowledge such as notation, key signatures, scales, intervals, and rudimentary harmony as well as skill development including sight singing, rhythmic training, ear training, and keyboard work.

MUSI 3B Comprehensive Musicianship 4 Units

Advisory: Music 3A or equivalent.

Three hours lecture, two hours lecture-laboratory.

Principles, literacy, and parameters of music including writing elementary four part harmony, sight singing, rhythmic training, ear training, and keyboard work for the student with some basic skills and education in standard notation.

MUSI 3C Comprehensive Musicianship (Third Quarter) 4 Units

Advisory: Music 3B or equivalent.

Three hours lecture, two hours lecture-laboratory.

Principles, literacy, and parameters of music including writing, sight singing, rhythmic training, ear training, keyboard work, beginning analysis, and simple melody composition.

MUSI 4A Comprehensive Musicianship II 4 Units

Advisory: Music 3C or equivalent.

Three hours lecture, two hours lecture-laboratory.

Principles, literacy, and parameters of music including writing, comprehensive and aural analysis, sight singing, rhythmic training, ear training, and keyboard work for the more advanced undergraduate student.

MUSI 4B Comprehensive Musicianship II (Second Quarter) 4 Units

Advisory: Music 4A or equivalent.

Three hours lecture, two hours lecture-laboratory.

Principles, literacy, and parameters of music including writing, comprehensive and aural analysis, sight singing, rhythmic training, ear training, and keyboard work for the more advanced undergraduate student exploring chromatic practice and the limits of the tonal system including a review of diatonic practice.

MUSI 4C Comprehensive Musicianship II (Third Quarter) 4 Units

Advisory: Music 4B or equivalent.

Three hours lecture, two hours lecture-laboratory.

Principles, literacy, and parameters of music including writing, comprehensive and aural analysis, sight singing, rhythmic training, ear training, and keyboard work for the more advanced undergraduate student exploring post tonal practice and the influence of non-notated, experimentally notated, and non Western music on an emerging world wide art music culture.

MUSI 5A Modal Counterpoint 3 Units

Advisory: Music 3A or equivalent.

Two hours lecture, two hours lecture-laboratory.

Modal counterpoint in two and three parts using both the species approach and the Phenomenological approach to produce species, imitative, and free counterpoint examples.

MUSI 8 Intermediate Electronic Music 3 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or

English as a Second Language 261, 262 and 263; Music 51.

Two hours lecture, two hours lecture-laboratory.

Intermediate level electronic music techniques including digital and analog synthesizer sound design and editing; professional studio and computer music software including integrated audio/MIDI sequencing software, instrument editors, software synthesizers; basic audio/MIDI studio configuration; modular synthesis; basic digital audio recording and editing; basic audio signal processing; introduction to concepts of music notation software; historical and technological development of electronic music; roles of electronic music technology in twentieth-century music. Some prior music experience and/or concurrent enrollment in Music 10A or Music 12A is recommended, but not required.

MUSI 9	Jazz Piano	2 Units	MUSI 14A	Classical Guitar I	1 1/2 Units
<i>Prerequisite: Ability to play a keyboard instrument and read music.</i> <i>One hour lecture, two hours lecture-laboratory.</i> <i>(May be taken up to six times for credit as long as the topics/projects are different each time.)</i> Development of the ability to play jazz piano arrangements from lead sheets in a variety of jazz styles using knowledge of jazz harmony, jazz piano techniques, and improvisational skills. Improvisational skill on the piano is developed through the understanding and practice of scale choices and the application of techniques from melodic development.			<i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i> <i>Three hours lecture-laboratory.</i> <i>(Any combination of Music 14A, 14B and 14C may be taken up to six times for credit for the family of courses.)</i> Beginning instruction for playing the classical, nylon-stringed guitar, assuming no prior musical experience. Introduces basic note reading on the first four frets of the instrument, left and right hand techniques, including free strokes, rest strokes, arpeggio technique, left-hand development of strength and independence. Chords, chord progression and basic strumming techniques will also be introduced.		
MUSI 10A	Music Fundamentals	3 Units	MUSI 14B	Classical Guitar II	1 1/2 Units
<i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i> <i>Three hours lecture.</i> Offers a basic introduction to concepts and skills of music notation, rhythm, major and minor scales and keys, simple sight-reading, key signatures, melody, and triads. Open to all students. May be appropriate for students with low scores on the Music 3A diagnostic test. Music Fundamentals students with no previous musical experience may benefit from concurrent enrollment in a beginning instrumental or vocal performance class.			<i>Prerequisite: Music 14A or equivalent level; admission by instructor approval.</i> <i>Three hours lecture-laboratory.</i> <i>(Any combination of Music 14A, 14B and 14C may be taken up to six times for credit for the family of courses.)</i> Refinement and expansion of classical guitar techniques learned in Classical Guitar I. Topics include expanded arpeggio techniques, free stroke and rest stroke development, slur technique, complex rhythms, multiple-voice music reading, and repertoire development. Music fundamentals such as major and minor scales and chord construction will also be covered.		
MUSI 10B	Harmony I	3 Units	MUSI 14C	Classical Guitar III	1 1/2 Units
<i>Advisory: Music 10A, 12A or 12B.</i> <i>Three hours lecture.</i> The analysis and writing of music which is considered traditional (tonal). Study of traditional harmonies and structures (18th century choral style) will be supplemented with the use of chord symbols and contemporary popular notational practices.			<i>Prerequisite: Music 14B or equivalent level; admission by instructor approval.</i> <i>Three hours lecture-laboratory.</i> <i>(Any combination of Music 14A, 14B and 14C may be taken up to six times for credit for the family of courses.)</i> Continuation and expansion of skills learned in Classical Guitar II. Development of sight-reading skills, complex rhythms and multiple-voice music in positions two through five through exercises and standard guitar repertoire. Emphasis on proper technique, interpretation, dynamics and tone color.		
MUSI 12A	Class Piano I	1 1/2 Units	MUSI 15A	Guitar Ensemble I	2 Units
<i>Advisory: Music 10A.</i> <i>Three hours lecture-laboratory.</i> <i>(Any combination of MUSI 12A, 12B, 12C and 18 may be taken up to six times, not to exceed 18 units, for the family of courses as long as the topics/projects are different each time.)</i> Beginning piano for students with no previous instruction, those who need knowledge of piano for a teaching credential, music majors, and the general student.			<i>(Formerly Music 60A.)</i> <i>Prerequisite: Enrollment subject to audition; ability to execute proper classical guitar technique and read music.</i> <i>Four hours lecture-laboratory.</i> <i>(Any combination of Music 15A, 15B and 15C may be taken up to six times, not to exceed 18 units, as long as the subject matter is different each time.)</i> Introduction to the performance of music for guitar ensemble, emphasizing sight reading, rhythmic accuracy and ensemble skills. Music from the 15th century to the present will be rehearsed and performed.		
MUSI 12B	Class Piano II	1 1/2 Units	MUSI 15B	Guitar Ensemble II	2 Units
<i>Prerequisite: Music 12A or consent of instructor.</i> <i>Three hours lecture-laboratory.</i> <i>(Any combination of MUSI 12A, 12B, 12C and 18 may be taken up to six times, not to exceed 18 units, for the family of courses as long as the topics/projects are different each time.)</i> Basic piano for beginning students who read treble and bass clef, and understand music notation.			<i>(Formerly Music 60B.)</i> <i>Prerequisite: Music 15A or equivalent. Enrollment subject to audition; ability to execute proper classical guitar technique and read music at sight in the first position.</i> <i>Four hours lecture-laboratory.</i> <i>(Any combination of Music 15A, 15B and 15C may be taken up to six times, not to exceed 18 units, as long as the subject matter is different each time.)</i> Continuation of Guitar Ensemble I, emphasizing sight-reading at higher positions, greater accuracy at increased tempos and/or rhythms, and ensemble skills. Music from the 15th century to the present will be rehearsed and performed.		
MUSI 12C	Class Piano III	1 1/2 Units	MUSI 15C	Guitar Ensemble III	2 Units
<i>Prerequisite: Music 12B or approval of the instructor.</i> <i>Three hours lecture-laboratory.</i> <i>(Any combination of MUSI 12A, 12B, 12C and 18 may be taken up to six times, not to exceed 18 units, for the family of courses as long as the topics/projects are different each time.)</i> Piano performance with emphasis on interpretation, musical form and harmony.			<i>(Formerly Music 60C.)</i> <i>Prerequisite: Music 15B or equivalent. Enrollment subject to audition; ability to execute proper classical guitar technique and read music at sight in the first through fifth positions.</i> <i>Four hours lecture-laboratory.</i> <i>(Any combination of Music 15A, 15B and 15C may be taken up to six times, not to exceed 18 units, as long as the subject matter is different each time.)</i> Continuation of Guitar Ensemble II, emphasizing sight-reading at seventh and higher positions, greater accuracy at increased tempos and/or rhythms, ensemble leadership skills. Music from the 15th century to the present will be rehearsed and performed.		
MUSI 13A	Beginning Singing I	1 1/2 Units	MUSI 18	Intermediate Piano	1 1/2 Units
<i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; concurrent enrollment in Music 10A or 12A is recommended.</i> <i>Three hours lecture-laboratory.</i> <i>(Any combination of Music 13A and 13B may be taken up to six times for credit for the family of courses.)</i> Class instruction for beginners in techniques of solo and group singing. Training in controlling tonal production, breathing, diction, and musical accuracy.			<i>Prerequisite: Music 12C or approval of the instructor.</i> <i>Three hours lecture-laboratory.</i> <i>(Any combination of MUSI 12A, 12B, 12C and 18 may be taken up to six times, not to exceed 18 units, for the family of courses as long as the topics/projects are different each time.)</i> Piano music from the Baroque era to the present, with emphasis on the style of each period and differences in interpretation.		
MUSI 13B	Beginning Singing II	1 1/2 Units			
<i>Prerequisite: Music 13A or equivalent.</i> <i>Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.</i> <i>Three hours lecture-laboratory.</i> <i>(Any combination of Music 13A and 13B may be taken up to six times for credit for the family of courses.)</i> Continuation of Music 13A with emphasis on musicianship, legato singing, correction of individual problems, and the rudiments of performance. Training in controlling tonal production, breathing, diction, and musical accuracy.					

MUSI 20 De Anza Chorale 2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; concurrent enrollment in Music 10A, 12A or 13A is recommended.

Four hours lecture-laboratory.

(May be taken up to six times for credit as long as the topics change each quarter.)

Study and performance of traditional, classical choral literature. Cultivation of performance skills in accompanied music. Attendance at all scheduled performances is required. Enrollment is open to all students. An introductory audition will assess pitch-matching ability and determine vocal range and appropriate choral part.

MUSI 21 Vintage Singers 2 1/2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262, and 263. Concurrent enrollment in Music 10A, 10B, 3A, 3B, 3C, or 12A is recommended.

Five hours lecture-laboratory.

(May be taken up to six times for credit as long as the topics/projects are different each time.)

Study and performance of specialized choral styles from early to modern in an ensemble of limited size. Enrollment subject to audition. Choral experience, previous vocal training, and some music reading ability is necessary. Attendance at all scheduled performances is required.

MUSI 22 Early Music Study and Performance 2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262, and 263. Concurrent enrollment in Music 10A or 12A is recommended.

Four hours lecture-laboratory.

(May be taken up to six times for credit.)

Study and performance of instrumental and vocal music from the Medieval and Renaissance periods. Cultivation of performance skills aimed at emulating the spirit and vitality of those periods. Attendance at all scheduled performances is required. Enrollment is open to all students. An introductory audition will determine placement in the appropriate section of singers.

MUSI 24 Women's Chorus 2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. Concurrent enrollment in Music 10A or 12A is recommended.

Four hours lecture-laboratory.

(May be taken up to six times for credit as long as the topics/projects are different each time.)

A choir for students interested in singing with a group for enjoyment. Study and performance of music of different styles and periods. Provides basic technique and experience in choral singing. Attendance at all scheduled performances is required. Enrollment is open to all students. An introductory audition will determine placement in the appropriate section of singers.

MUSI 25G Performance Workshop (Brass) 1 1/2 Units**MUSI 25H Performance Workshop (Guitar) 1 1/2 Units****MUSI 25J Performance Workshop (Piano) 1 1/2 Units****MUSI 25K Performance Workshop (Reeds) 1 1/2 Units****MUSI 25M Performance Workshop (Voice) 1 1/2 Units****MUSI 25VJ Performance Workshop (Jazz Solo Voice) 1 1/2 Units**

Prerequisite: Placement by audition.

Three hours lecture-laboratory.

(Any combination of Music 25G-VJ may be taken up to six times, not to exceed 18 units, for the family of courses.)

Master class instruction in solo and ensemble performance technique, requiring technical command of the instrument and basic knowledge of musicianship.

MUSI 27 Vocal Jazz Ensemble 2 Units

(Formerly Music 27B.)

Prerequisite: Enrollment subject to a standardized audition demonstrating musical ability and technical proficiency at a level suitable to the course level.

Corequisite: Concurrent enrollment in Music 3A, 3B, 3C, 10A, 10B or 12A is recommended.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Four hours lecture-laboratory.

(May be taken up to six times for credit as long as the topics are different each time.)

Study, rehearsal, and performance of standard and contemporary vocal jazz ensemble literature. Exposure to microphone technique, vocal improvisation, and ensemble interpretation of jazz styles and phrasing. Developing a working vocabulary of traditional vocal jazz performance techniques and an understanding of the cultural and historical contexts that produced the specific vocal jazz styles.

MUSI 31A Chamber Orchestra 2 Units

Prerequisite: Enrollment subject to audition; ability to play an orchestral instrument and read music at sight.

Four hours lecture-laboratory.

(Any combination of Music 31A, 31B and 31C may be taken up to six times for credit as long as the topics/projects are different each time.)

Performance of music for chamber orchestra emphasizing the development of good ensemble and proper musical interpretations.

MUSI 31B Chamber Orchestra 2 Units

Prerequisite: Enrollment subject to audition; ability to play an orchestral instrument and read music at sight.

Four hours lecture-laboratory.

(Any combination of Music 31A, 31B and 31C may be taken up to six times for credit as long as the topics/projects are different each time.)

Study, preparation and performance of works from orchestral literature for chamber orchestra with an emphasis on developing proper ensemble techniques for dramatic or choral performances.

MUSI 31C Chamber Orchestra 2 Units

Prerequisite: Enrollment subject to audition; ability to play an orchestral instrument and read music at sight.

Four hours lecture-laboratory.

(Any combination of Music 31A, 31B and 31C may be taken up to six times for credit as long as the topics/projects are different each time.)

Study, preparation and performance of works from orchestral literature of music for chamber orchestra with an emphasis on developing proper ensemble techniques of orchestral accompaniment for solo performance.

MUSI 32A Jazz Solo Voice 1 1/2 Units

(Formerly Music 52A.)

Prerequisite: Music 13B or equivalent private vocal instruction or experience. All students should have solo voice experience.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Three hours lecture-laboratory.

(Any combination of Music 32A and 32B may be taken up to six times for credit as long as the topics/projects are different each time.)

Study and performance of songs in the jazz idiom. Emphasis on jazz phrasing, melodic and harmonic improvisation, stylistic concepts, vocal consistency, variation of texture, jazz rhythms, rhythm section communication, microphone technique.

MUSI 32B Jazz Solo Voice II 1 1/2 Units

(Formerly Music 52B.)

Prerequisite: Music 32A or equivalent private vocal instruction or experience.

Approval of instructor. All students must have vocal jazz solo experience.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. Concurrent enrollment in Music 10A or 12A is recommended.

Three hours lecture-laboratory.

(Any combination of Music 32A and 32B may be taken up to six times for credit as long as the topics/projects are different each time.)

Advanced study and performance of songs in the jazz idiom. In-depth emphasis on jazz phrasing, melodic and harmonic improvisation, stylistic concepts, vocal consistency, variation of texture, jazz rhythms, rhythm section communication, microphone technique, repertoire building, and public performance. This course prepares students for professional activity in the area of vocal jazz solo performance.

MUSI 34 Jazz Ensemble 2 Units

Prerequisite: Ability to play an instrument and read music. Enrollment may be subject to audition.

Corequisite: It is recommended that Music 34 students also enroll in Music 42 and/or Music 48.

Four hours lecture-laboratory.

(May be taken up to six times for credit.)

Sight-reading, rehearsal, performance and recording of diverse styles of music composed and arranged for standard jazz ensemble. Emphasis on improvising within the ensemble structure is a goal for each individual.

MUSI 41 Rehearsal and Performance 1/2 Unit**MUSI 41U 1 Unit****MUSI 41V 2 Units****MUSI 41W 3 Units****MUSI 41X 4 Units**

Two hours lecture-laboratory for each unit of credit.

(Any combination of Music 41, 41U, 41V, 41W and 41X may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.)

Supervised participation in the various aspects of music rehearsal and/or performance.

MUSI 42 Symphonic Wind Ensemble 2 Units

Prerequisite: Ability to play a band instrument and read music at sight.
Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. Concurrent enrollment in Music 25G, 25K, 25N, 34, or 48 is recommended.

Four hours lecture-laboratory.

(May be taken up to six times for credit as long as the topics/projects are different each time.)

Rehearsal, sight-reading, performance, and recording of wind ensemble literature in a variety of styles and time periods. Attendance at all scheduled performances is required.

MUSI 45 Jazz Combos 2 Units

(Formerly Music 45C.)

Prerequisite: Ability to play an instrument and read music.

Four hours lecture-laboratory.

(May be taken up to six times for credit as long as the topics/projects are different each time.)

Preparation and performance of music for jazz combos. Ensemble and improvisational performance are emphasized in addition to playing in all jazz rhythmic styles. Student compositions and arrangements are encouraged. Participation at all scheduled performances is required.

MUSI 46 Beginning Winds and Percussion 1 1/2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Three hours lecture-laboratory.

(May be taken six times for credit as long as the instrument is different each time.)

Beginning performance methods and techniques on brass, woodwind, and percussion instruments. Fundamentals of embouchure, fingerings, articulation, rhythm, intonation, and reading musical notation.

MUSI 48 Jazz Improvisation 1 1/2 Units

Prerequisite: Ability to play an instrument and read music.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Three hours lecture-laboratory.

(May be taken six times for credit as long as the music performed is different each time.)

Development of improvisational skill in the jazz idiom. Analysis of scales, chords, and forms as applicable to improvisational performance of standard jazz vehicles. Ear training and transcribing solos included. Attendance and participation in final recital is required. Music will vary each quarter.

MUSI 51 Introduction to Electronic Music 3 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Two hours lecture, two hours lecture-laboratory.

Introduction to the use of keyboard controllers, hardware and software synthesizers and instruments, and sequencing and audio software to create music in a variety of styles; basic studio techniques; introduction to Musical Instrument Digital Interface (MIDI); introduction to basic historical developments in electronic music; creation of music/audio projects using basic electronic music hardware and software. Some prior music experience is recommended but not required.

MUSI 53 Music Business 3 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Three hours lecture.

Introduction to the business aspects of music. Examines the areas of copyright laws, publishing, concert promotion, club and record contracts, agents, managers, unions, and the various careers to be found in music. Emphasis on the commercial music field including film, television, sound recording, the record industry, and Internet applications.

MUSI 56 Jazz, Blues and Popular Guitar 1 1/2 Units

Prerequisite: Ability to play first-position and movable major, minor and dominant 7th chords.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Three hours lecture-laboratory.

An intermediate-level study of the common practices used in jazz, blues and selected styles of popular music. Guitar styles from the 1940's to the present will be examined through the use of recording and written examples. Chord voicing, scales, right hand picking techniques, and development of solo skills in these styles will be emphasized.

MUSI 58A Beginning African and African-Influenced Percussion and Rhythms 1 1/2 Units

(Formerly Music 58.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Three hours lecture-laboratory.

(Any combination of Music 58A and 58B may be taken up to six times, for the family of courses, as long as the subject matter is different each time.)

An exploration of selected African, Afro-Caribbean and Latin American rhythms applied to hand drums, drumset and percussion instruments.

MUSI 58B Intermediate African and African-Influenced Percussion and Rhythms 1 1/2 Units

Prerequisite: Music 58A or equivalent level.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Three hours lecture-laboratory.

(Any combination of Music 58A and 58B may be taken up to six times, for the family of courses, as long as the subject matter is different each time.)

Intermediate-level skill development of selected African, Afro-Caribbean and Latin American rhythms applied to hand drums, stick drums and percussion instruments.

MUSI 202 Music Reading 1 Unit

(Formerly Music 102.)

Credit course - Does not apply to De Anza Associate degree.

(Required for music majors not qualifying on the Music Placement Exam.)

Two hours lecture-laboratory.

Learning to read music by continuous supervised practice. Limited reference to theoretical matters; concentration on reading music notation at sight and on development of aural skills. For students with no previous musical experience. Enrollment in one of the following beginning performance classes is recommended: Music 8, 12A, 13A, 14A, 24, 46, or 51. Does not fulfill any music major requirements.

Naval Science

(Navy Reserve Officers Training Corps) For information on Naval ROTC courses, please see Military Studies.

Nursing

The following are the nursing education options and career paths for students at De Anza College. For specific program requirements, see Career and Curriculum Certificates and Degrees located elsewhere in this catalog.

Registered Nursing Program

L.V.N. Transition to R.N. Nursing Program

Continuing Education for Nurses

Refresher Program for Registered Nurses

Applications for the licensure programs (R.N., or L.V.N. Transition) are available after successfully completing the following: Nursing 50, the required prerequisites for the programs with a Grade point Average (GPA) of 3.0 or higher, and admission through the selection process for entrance. The curriculum of these programs is designed to prepare individuals for beginning professional nursing practice and to define and understand the legal scope of practice within each of the licensed nursing disciplines. The programs promote success in the ability to practice nursing effectively together as a professional team.

See www.deanza.edu/nursing for specific policies regarding application and admission. The majority of courses are scheduled in the daytime. Generally, the nursing programs are not scheduled during the summer session. Costs of uniforms, books, malpractice insurance and miscellaneous supplies are estimated at \$4000 for the program. In addition, each student is responsible for his/her own transportation to the clinical agencies.

Registered Nursing Program

Associated Degree Nursing Program is accredited by the California Board of Registered Nursing. The R.N. graduate is eligible to take the California State Board Examination for licensing (NCLEX - R.N.) Students are admitted to this program during the fall, winter, and spring quarters. The majority of courses are scheduled in the daytime. Generally, the R.N. Program is not scheduled in the summer session. The program, once admitted, (**not including** prerequisites) is six quarters in length.

L.V.N. Transition to the Registered Nursing Program

(Current California L.V.N. license is required.) The L.V.N. Transition to the R.N. graduate is eligible to take the California State Board Examination for licensing (NCLEX - R.N.) Students are admitted throughout the year as advanced placements. The majority of courses are scheduled in the daytime. Generally, the program is not scheduled in the summer session. The program, once admitted, (**not including** prerequisites) is at least three quarters in length.

Advanced Placement for Students with Prior Nursing Education

Students are admitted in advanced placement during the fall, winter, or spring quarter on a space available basis only. Placement depends on prior nursing education.

NURS 50 Career Opportunities in Nursing 2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Two hours lecture.

Careers in the health field with emphasis on education and practice. Required course for entry to De Anza's Registered Nursing Programs. Not required for LVN Transition to RN or Refresher Program for Registered Nurses.

NURS 77 Special Projects in Nursing 1/2 Unit

NURS 77X 1 Unit

NURS 77Y 2 Units

NURS 77Z 3 Units

(Formerly Nursing 56, 56X, 56Y and 56Z respectively.)

Prerequisite: Consent of instructor and division dean.

Three hours laboratory for each unit of credit.

(Any combination of Nursing 77, 77X, 77Y and 77Z may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)

Pass-No Pass (P-NP) course.

Individual special theory and/or clinical projects in nursing as determined in consultation with the instructor.

NURS 81 Fundamental Nursing (Non Acute/Sub Acute Care) 4 Units

Prerequisite: Admission into the De Anza College Nursing Program.

Corequisite: Nursing 81 students must also enroll in Nursing 81L and 81P.

Four hours lecture.

Introduction to the foundation for entry into the field of nursing. Orem's model of self-care is used as the basis to study the health-illness continuum, the legal and ethical issues, safety principles, and the process of coping related to nursing practice. Goal-directed therapeutic communication techniques, principles of medical and surgical asepsis, and safe administration of medications by non-parenteral routes will be introduced. The nursing process is also a basis for all client interactions. Beginning teaching/learning principles will be explored to assist the client toward self-care.

NURS 81L Fundamental Nursing (Non Acute/Sub Acute Care Clinical) 5 Units

Prerequisite: Admission into the De Anza College Nursing Program.

Corequisite: Nursing 81L students must also enroll in Nursing 81 and 81P.

Fifteen hours laboratory.

Pass-No Pass (P-NP) course.

Clinical objectives will be met in the campus skills laboratory and in skilled and sub acute nursing facilities to apply theory concepts. Fundamental nursing care concepts will be introduced. Students will have "hands on" experiences with all basic concepts presented.

NURS 81N CNA Transition (Non Acute/Sub Acute Care) 3 Units

Prerequisite: Admission into the De Anza College Nursing Program; current California Nursing Assistant Certification.

Corequisite: Nursing 81N students must also enroll in Nursing 81NL and 81P.

Three hours lecture.

A transition course which provides a higher level entry into the nursing program for the Certified Nursing Assistant who has basic bedside nursing skills but lacks additional nursing requirements. The nursing process incorporating Orem's model of self-care, and teaching/learning principles are presented along with concepts of non-parenteral medication administration.

NURS 81NL CNA Transition (Non-Acute/Sub Acute Care Clinical) 2 Units

Prerequisite: Admission into the De Anza College Nursing Program; current California Nursing Assistant Certification.

Corequisite: Nursing 81N students must also enroll in Nursing 81N and 81P.

Six hours laboratory.

Pass-No Pass (P-NP) course.

A transition course which provides a higher level entry into the nursing program for the Certified Nursing Assistant who has basic bedside nursing skills but lacks additional nursing requirements. The nursing process and teaching/learning principles are applied along with administration of non-parenteral medications.

NURS 81P Pharmacology I 1 1/2 Units

(Open to non-nursing students with instructor approval.)

Prerequisite: Admission into the De Anza College Nursing Program.

Corequisite: Nursing 81P students must also enroll in Nursing 81 and 81L (or Nursing 81N and 81NL).

One and one-half hours lecture.

Pharmacology I provides the basic foundation required for entry in the field of nursing. Legal/ethical issues and safety principles will be stressed throughout this course as an integral part of nursing practice. Beginning teaching/learning principles will be explored to assist the student to use effective techniques in self-care. The Nursing Process is used as a basis for all client interactions and Orem's model is integrated into this process.

NURS 82 Acute Fundamentals/Medical Surgical I 4 Units

Prerequisite: Nursing 81 and 81L (or 81N and 81NL); and Nursing 81P (all courses with a grade of C or better).

Corequisite: Nursing 82 students must also enroll in Nursing 82L and 82P.

Four hours lecture.

Physical and psychosocial, universal, developmental, and health deviation self-care requisites are addressed by utilization of the nursing process and Orem's model of self-care. The student will be introduced to principles of fluid and electrolyte theory, and safe administration of medication by parenteral and intravenous routes. The preoperative, intraoperative, and postoperative stages of the surgical patient will be discussed. A variety of medical-surgical health deviations will also be presented which has a more surgical emphasis. The student will learn gender, physiological, ethnic, and age differences and similarities when discussing the health deviations and interventions.

NURS 82L Acute Fundamentals/Medical Surgical I (Clinical) 5 Units

Prerequisite: Nursing 81 and 81L (or Nursing 81N and 81NL); and Nursing 81P (all courses with a grade of C or better).

Corequisite: Nursing 82L students must also enroll in Nursing 82 and 82P.

Fifteen hours laboratory.

Pass-No Pass (P-NP) course.

Physical and psychosocial, universal, developmental, and health deviation self-care requisites are addressed by utilization of the nursing process and Orem's model of self-care. Therapeutic communication techniques and teaching/learning principles are applied in assisting the medical/surgical client to move toward self-care. The student will be introduced to principles of safe administration of medications by parenteral routes, fluid and electrolyte theory application, and preparation and administration of intravenous infusions. Clinical assignments will focus on the perioperative client as well as medical health deviations discussed in theory class.

NURS 82P Pharmacology II 1 1/2 Units

(Open to non-nursing students with instructor approval.)

Prerequisite: Nursing 81 and 81 (or Nursing 81N and 81NL); and Nursing 81P (all courses with a grade of C or better).

Corequisite: Nursing 82P students must also enroll in Nursing 82 and 82L.

One and one-half hours lecture.

Pharmacology II provides the student a sound basis of pharmacology for entry into acute care nursing. Legal/ethical issues and safety principles will be stressed throughout this course as an integral part of nursing practice. Teaching/learning principles will be expanded to assist the student in effective techniques in self care. Orem's model is used as a basis for all client interactions and is integrated into the nursing process. The student will also incorporate principles of medical and surgical asepsis in the safe administration of medications by nonparenteral and parenteral routes with emphasis on parenteral routes.

NURS 83 Perinatal Nursing 2 Units

Prerequisite: Nursing 82, 82L and 82P (all courses with a grade of C or better).

Corequisite: Nursing 83 students must also enroll in Nursing 83L, 83P and 83PL.

Two hours lecture.

Utilization of the nursing process and incorporation of Orem's model of self-care in meeting universal, developmental, and health deviation self-care requisites of perinatal client and family. Focus is on the physical and psychosocial needs of the perinatal client, including the needs of the family unit. Critical thinking and problem solving skills will be employed through group exercises and independent study with consideration for the registered nurse specific scope of practice. Theory and clinical components are to be taken concurrently. Failure of either component requires both courses to be retaken.

NURS 83A Pediatric Nursing 2 Units

Prerequisite: Nursing 82, 82L and 82P (all courses with a grade of C or better).

Corequisite: Nursing 83A students must also enroll in Nursing 83AL, 83P and 83PL.

Two hours lecture.

Introduction to the nursing care of children. Orem's model of self-care will be used as a basis to study the health/illness continuum as it applies to children and their families. The nursing process will be integrated throughout the course as a primary tool for delivering nursing care to children. Theory and clinical must be taken concurrently. Failure of either requires both to be retaken. Critical thinking and problem solving skills will be employed through group exercises and independent study with consideration for the registered nurse specific scope of practice.

NURS 83AL Pediatric Nursing (Clinical) 2 1/2 Units

Prerequisite: Nursing 82, 82L and 82P (all courses with a grade of C or better).

Corequisite: Nursing 83AL students must also enroll in Nursing 83A, 83P and 83PL.

Seven and one-half hours laboratory.

Pass-No Pass (P-NP) course.

Clinical objectives will be met in the campus skills laboratory, acute care facilities and numerous community agencies to apply theory concepts. Theory and clinical must be taken concurrently. Failure of either requires both to be retaken. Critical thinking and problem solving skills will be utilized in the application of theoretical concepts with consideration for the Registered Nurse's scope of practice.

NURS 83L Perinatal Nursing (Clinical) 2 1/2 Units

Prerequisite: Nursing 82, 82L and 82P (all courses with a grade of C or better).

Corequisite: Nursing 83L students must also enroll in Nursing 83, 83P and 83PL.

Seven and one-half hours laboratory.

Pass-No Pass (P-NP) course.

Clinical objectives will be achieved through student participation in nursing laboratory exercises, in acute hospital settings and in selected community-based women's health clinics. Assessment skills will be demonstrated by the instructor and practiced by the student before "hands-on" implementation in the various clinical settings. Theory and clinical components are to be taken concurrently. Failure of either component requires both courses to be retaken.

NURS 83P Pharmacology III 1 1/2 Units

(Open to non-nursing students with instructor approval.)

Prerequisite: Nursing 82, 82L and 82P (all courses with a grade of C or better).

Corequisite: Nursing 83P students must also enroll in Nursing 83, 83A, 83AL, 83L and 83PL.

One and one-half hours lecture.

Pharmacology III focuses on pharmacology related to the maternal and child population. Legal/ethical issues and safety principles will be stressed as an integral part of nursing practice. Teaching/learning principles with regard to medication administration will be included. Concepts on venipuncture will be presented.

NURS 83PL Pharmacology III Laboratory 1/2 Unit

Prerequisite: Nursing 82, 82L and 82P (all courses with a grade of C or better).

Corequisite: Nursing 83PL students must also enroll in Nursing 83, 83A, 83AL, 83L and 83P.

One and one-half hours laboratory.

Pass-No Pass (P-NP) course.

Pharmacology III Laboratory objectives will be met in the campus skills laboratory. The focus of the course is to provide the student pharmacology skill application with emphasis on maternal and child population. Practice in venipuncture and blood withdrawal will also be provided. Concepts of advanced vascular access, chemotherapy and parenteral nutrition will be addressed.

NURS 84 Medical/Surgical II (Care of the Older Adult) 4 Units

Prerequisite: Nursing 83, 83A, 83AL, 83L, 83P and 83PL (all courses with a grade of C or better).

Corequisite: Nursing 84 students must also enroll in Nursing 84C and 84L.

Four hours lecture.

Utilization of the nursing process within the framework of Orem's model of self-care in relation to the gerontological client and the client with chronic self-care deficits. Emphasis is on the study of the older adult who is experiencing the normal process of aging as well as the older adult experiencing a health deviation. Critical thinking and problem solving will be employed through group exercises and independent study with consideration for the registered nurse scope of practice. This course and its clinical component (Nursing 84L) must be taken concurrently. Failure of either requires both to be retaken.

NURS 84C Critical Thinking in Nursing 2 Units

(Formerly Nursing 55C.)

Prerequisite: Nursing 83, 83A, 83AL, 83L, 83P and 83PL (all courses with a grade of C or better).

Corequisite: Nursing 84C students must also enroll in Nursing 84 and 84L.

Two hours lecture.

Designed to assist the nurse in developing critical thinking skills to facilitate decision making and effective clinical judgment. The nursing process will be utilized as a mechanism in developing coherent and logical thinking through the use of scenarios, debates, group and written assignments. Critical thinking and problem solving skills will be employed through group exercises and independent study with consideration for the Registered Nurse specific scope of practice.

NURS 84L Medical/Surgical II (Care of the Older Adult) - Clinical 5 Units

Prerequisite: Nursing 83, 83A, 83AL, 83L, 83P and 83PL (all courses with a grade of C or better).

Corequisite: Nursing 84L students must also enroll in Nursing 84 and 84C.

Fifteen hours laboratory.

Pass-No Pass (P-NP) course.

Utilization of the nursing process within the framework of Orem's model of self-care in relation to the gerontologic client and the client with chronic self-care deficits. Emphasis is on the clinical nursing care of the older adult who is experiencing the normal process of aging as well as the older adult experiencing a health deviation. Clinical objectives are met through experiences in a variety of settings such long-term care nursing facilities, medical-surgical units in acute care settings, adult community centers, and simulated laboratory settings. This course and its theory component (Nursing 84) must be taken concurrently. Failure of either requires both to be retaken. Critical thinking and problem solving skills will be utilized in the application of theoretical concepts with consideration for the registered nurse's specific scope of practice.

NURS 85 Advanced Medical-Surgical Concepts 2 Units

Prerequisite: Nursing 84, 84C and 84L.

Corequisite: Nursing 85 students must also enroll in Nursing 85L.

Two hours lecture.

Health deviations presented are encountered in the adult population. Topics include self-care deficits related to air, water, food, activity and rest, solitude/social interaction, elimination, prevention of hazards, and normalcy. Critical thinking and problem solving skills will be employed through group exercises and independent study with consideration for the Registered Nurse specific scope of practice.

NURS 85A Psychiatric/Mental Health Nursing (Theory) 2 Units

Prerequisite: Nursing 84, 84C and 84L (all courses with a grade of C or better).

Corequisite: Nursing 85A students must also enroll in Nursing 85AL.

Two hours lecture.

Utilization of the nursing process in learning to meet clients' self-care deficits, with an emphasis on the biopsychosocial needs of individuals across the life span who experience acute or severe psychopathology. Theories of psychiatric/mental health nursing will be taught in concert with nursing care of individuals undergoing treatment in a variety of behavioral healthcare settings. Theory and clinical components must be taken concurrently. Failure of either component requires both courses to be retaken.

NURS 85AL Psychiatric/Mental Health Nursing (Clinical) 2 1/2 Units

Prerequisite: Nursing 84, 84C and 84L (all courses with a grade of C or better).

Corequisite: Nursing 85AL students must also enroll in Nursing 85A.

Seven and one-half hours laboratory.

Pass-No Pass (P-NP) course.

Application of theories of psychiatric/mental health nursing. The nursing process is used in providing care for individuals undergoing treatment in a variety of behavioral health care settings including hospitals, clinics and community agencies. Clinical and theory (Nursing 85A) components must be taken concurrently. Failure of either component requires both courses to be retaken.

NURS 85L Advanced Medical-Surgical Clinical 2 1/2 Units

Prerequisite: Nursing 84, 84C and 84L (all courses with a grade of C or better).

Corequisite: Nursing 85L students must also enroll in Nursing 85.

Seven and one-half hours laboratory.

Pass-No Pass (P-NP) course.

Application of concepts learned in the theory class will occur in acute care settings. Students will be working with clients demonstrating acute health deviations. The nursing process and Orem's conceptual model will be utilized in caring for unstable clients on a medical-surgical unit.

NURS 86 Leadership/Management in Nursing 2 Units

Prerequisite: Nursing 85, 85A, 85AL and 85L (all courses with a grade of C or better).

Corequisite: Nursing 86 students must also enroll in Nursing 86L.

Two hours lecture.

Leadership/Management in Nursing is a quarter long course designed to prepare the Registered Nursing student to function as a graduate nurse. Focus includes the managerial/leadership role, interdisciplinary practice, legal challenges of clinical practice, and trends within the nursing profession.

NURS 86L Leadership/Management Clinical Component 5 Units

Prerequisite: Nursing 85, 85A, 85AL, and 85L (all courses with a grade of C or better).

Corequisite: Nursing 86L students must also enroll in Nursing 86.

Fifteen hours laboratory.

Pass-No Pass (P-NP) course.

The clinical component to the Leadership/Management in nursing course (to be taken concurrently). This course, the Prelicensure Preceptorship, is designed to prepare the student to function as a graduate nurse. Students will provide nursing care for patients under the guidance of a registered nurse working in the community, supervised by the faculty liaison. The student will work on the day, evening, or night shift, depending on the schedule of the assigned preceptor.

NURS 150 Nursing Laboratory Skills 1/2 Unit

NURS 150W 1 Unit

NURS 150X 1 1/2 Units

NURS 150Y 2 Units

Corequisite: Nursing 150, 150W, 150X and 150Y students must also be accepted into the De Anza College Associate Degree Nursing Program.

Three hours laboratory for each unit of credit.

(Any combination of Nursing 150, 150W, 150X and 150Y may be taken up to six times for credit.)

Pass-No Pass (P-NP) course.

Nursing skills practice in campus laboratory setting.

NURS 202 Review of Nursing Concepts 1/2 Unit

NURS 202X 1 Unit

NURS 202Y 2 Units

NURS 202Z 3 Units

Credit course - Does not apply to De Anza Associate degree.

Prerequisite: Nursing 202, 202X, 202Y and 202Z students must also be a licensed or graduate nurse.

Three hours laboratory for each unit of credit.

(Any combination of Nursing 202, 202X, 202Y and 202Z may be taken up to six times for credit.)

Pass-No Pass (P-NP) course.

Independent study course which is designed for the nurse who is seeking a review or update of information related to theoretical nursing concepts in the areas of gerontology, medical surgical, pediatric, perinatal, and psychiatric nursing. Critical thinking skills are employed in making decisions, and effective clinical judgments.

Nutrition

NUTR 10 Contemporary Nutrition 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Introductory level nutrition. Physiological, psychological and economic aspects of obtaining an adequate diet through the life cycle. Relationship of nutrients to health and physical fitness. Evaluation of current nutritional issues and controversies.

NUTR 62 Nutrition and Athletic Performance 2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours lecture.

Principles of sports nutrition. Suggested diets for strength training, endurance activities and weight control. Use of popular ergogenic aids.

NUTR 62G Dieting (Sifting Fact from Fiction) 1/2 Unit

Advisory: Nutrition 10 or 62.

One-half hour lecture.

Causes of obesity, evaluation of popular weight control diets and programs, and effective methods of weight loss.

Paralegal Program

PARA 3 Concepts of Criminal Law (CP 2) 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Administration of Justice 3 and Political Science 13. Student may enroll in only one department for credit.)

Four hours lecture.

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 in a multicultural, multiethnic society.

PARA 11 Federal Courts and Constitutional Law 4 Units

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Administration of Justice 11 and Political Science 11. Student may enroll in only one department for credit.)

Four hours lecture.

Federal court procedure and the impact of U.S. Constitutional law on federal and state law. Read and analyze the Constitution. Effect of U.S. Supreme Court cases on current constitutional interpretation.

PARA 18 Business Law I 5 Units

Advisory: English Writing 1A or English as a Second Language 5; Business 10.

(Also listed as Business 18. Student may enroll in either department, but not both, for credit.)

Five hours lecture.

The American legal system and laws applicable to business emphasizing contract, sales and agency laws, the impact of the legal system on business, and ethical considerations in the business environment.

PARA 25 Law and Social Change 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Administration of Justice 25 and Sociology 25. Student may enroll in only one department for credit.)

Four hours lecture.

Exploration of the use of law as an instrument for social change. Examination of relationship between law and social change in cross-cultural settings. Analysis of legislation, case law, the process of conflict resolution and legal institutions as they relate to social change.

PARA 52A Legal Aspects of Real Estate in California 4 Units

Advisory: Real Estate 50.

(Also listed as Real Estate 52A. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

California real property laws with emphasis on their practical application. Sources of real estate law; classes of property; fixtures; easements; estates or interest in real property; contracts of sale; covenants; conditions; and restrictions.

PARA 54 Youth and the Law 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Administration of Justice 54 and Sociology 54. Student may enroll in only one department for credit.)

Four hours lecture.

A legal and sociological approach to understanding the causes of juvenile delinquency; an examination of race, culture and gender in juvenile delinquency; community responses to delinquency; organization, functions and jurisdiction of both social and legal agencies; processing and detention; case disposition; statutes and court procedures.

PARA 64 Paralegal Internship 1 Unit

PARA 64X 2 Units

PARA 64Y 3 Units

PARA 64Z 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours per week per unit of supervised internship in an authorized office or agency.

(Any combination of Paralegal 64, 64X, 64Y and 64Z may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.)

Program of work experience and study in law, paralegal, or legal research under the supervision of the instructor and agency personnel.

PARA 65 Current Paralegal Topics 1/2 Unit

PARA 65W 1 Unit

PARA 65X 2 Units

PARA 65Y 3 Units

PARA 65Z 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; background or experience appropriate to topic or consent of instructor.

One hour lecture for each unit of credit.

(Any combination of Paralegal 65, 65W, 65X, 65Y and 65Z may be taken up to six times, not to exceed 18 units, as long as the topics are different each time.)

Current developments in the substantive law in an area of legal practice; current developments in procedural law in that area of legal practice; current developments in legal forms used in that area of legal practice; role of paralegal in substantive and procedural law in that area of legal practice.

PARA 69 Paralegal Field Trips 1 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture-laboratory.

A survey of current conditions in the paralegal field.

PARA 74A	Interviewing, Interrogation and Crisis Intervention	4 Units	PARA 91A	California Family Law	4 Units
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. (Also listed as Administration of Justice 74A and Psychology 74A. Student may enroll in only one department for credit.) Four hours lecture. Theories, principles and strategies of tactical and interpersonal communication necessary to interview victims, witnesses, and suspects; crisis intervention strategies for victims and witnesses of crime; communication with individuals from diverse backgrounds with consideration to race, ethnicity, gender, age and special needs.			Prerequisite: Paralegal 94 or 95, or professional experience appropriate to the topic. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Four hours lecture. Substantive and procedural aspects of family law practice in California, with emphasis on dissolution procedures.		
PARA 75	Principles and Procedures of the Justice System	4 Units	PARA 92A	Partnerships and Corporations	4 Units
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. (Also listed as Administration of Justice 75 and Political Science 75. Student may enroll in only one department for credit.) Four hours lecture. Procedures followed by law enforcement and courts in criminal cases; constitutional principles governing those procedures.			Prerequisite: Paralegal 94 or 95, or professional experience appropriate to the topic. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Four hours lecture. Substantive and procedural law of basic business organizations, including sole proprietorships, partnerships, corporations and limited liability companies and partnerships.		
PARA 84	Trial Preparation	4 Units	PARA 92B	Corporate Securities Regulations	4 Units
Prerequisite: Paralegal 94 or 95. Advisory: English Writing 1A or English as a Second Language 5; Paralegal 97A. Four hours lecture. Role of paralegal in preparing a case for trial including pretrial planning, evidence gathering and case analysis.			Prerequisite: Paralegal 94 or 95, or professional experience appropriate to the topic. Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Substantive laws and procedural rules and forms related to California and federal corporate securities regulations.		
PARA 85	Intellectual Property Law	4 Units	PARA 93	Bankruptcy Law	4 Units
Prerequisite: Paralegal 94 or 95. Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Overview of the law of intellectual property, including trade secrets, trademarks, patents and copyrights and examination of the role of the paralegal in this area.			Prerequisite: Paralegal 94 or 95, or professional experience appropriate to the topic. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Four hours lecture. Substantive law of bankruptcy; legal rights of debtors and creditors, procedural rules and forms for bankruptcy; practical applications.		
PARA 86	Legal Analysis	4 Units	PARA 94	Introduction to California Law	4 Units
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Four hours lecture. Principles of legal analysis with an emphasis on analysis of case law; detailed examination of written case opinions; methods of interpreting statutory law; development of legal arguments based on case law and statutory law.			Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Four hours lecture. The legal structures and legal procedures existing within the state of California; examination of the roles and duties of legal personnel in California with an emphasis on the role and duty of paralegals.		
PARA 87	Personal Injury and Tort Litigation	4 Units	PARA 95	Overview of American Law	4 Units
Prerequisite: Paralegal 94 or 95, or professional experience appropriate to the topic. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Four hours lecture. Substantive tort law emphasizing concepts applicable to automobile accident cases, product liability cases, premises liability cases and malpractice cases; insurance law affecting personal injury litigation; basic medical terminology in personal injury litigation; procedural rules and practices related to personal injury litigation in California with an emphasis on the role of the paralegal.			Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. (Also listed as Administration of Justice 95 and Political Science 95. Student may enroll in only one department for credit.) Four hours lecture. Overview of the major substantive areas of American law: Agency, contracts, constitutional law, corporations, criminal law, family law, property, torts, wills and estates.		
PARA 88	The Paralegal and Professional Responsibility	2 Units	PARA 96A	Introduction to Legal Research and Writing	4 Units
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Two hours lecture. Examination of the role of the paralegal in the legal system. Ethical rules and guidelines governing legal professionals.			Prerequisite: Paralegal 94 or 95, or professional experience appropriate to the topic. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Four hours lecture. Organization and publication of American and California law; using print and on-line legal resources to find the law; using the law to analyze legal issues arising from factual disputes; writing a memorandum of law utilizing acceptable legal citation format.		
PARA 89	Landlord Tenant Law	4 Units	PARA 96B	Advanced Legal Research and Writing	4 Units
Prerequisite: Paralegal 94 or 95, or professional experience appropriate to the topic. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Four hours lecture. California law relating to creation of landlord/tenant relationship; legal rights of landlords; legal rights of tenants; eviction proceedings.			Prerequisite: Paralegal 94 or 95; Paralegal 96A. Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Researching complex legal disputes utilizing both print and online resources; drafting a memorandum of points and authorities.		
PARA 90A	Legal Aspects of Evidence (CP 4)	4 Units	PARA 96C	Computer Assisted Legal Research and Investigation	4 Units
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. (Also listed as Administration of Justice 90A. Student may enroll in either department, but not both, for credit.) Four hours lecture. The origin, development, and content of the rules of evidence; kinds of degrees of evidence and rules governing admissibility of evidence.			Prerequisite: Paralegal 94 or 95; Paralegal 96A; or professional experience appropriate to the topic. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Four hours lecture. Use the Internet to find legal resources and conduct legal investigation; introduction to the fee-based legal resources such as LEXIS and Westlaw.		

PARA 97A Civil Litigation Procedures 4 Units

Prerequisite: Paralegal 94 or 95, or professional experience appropriate to the topic.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Substantive and procedural rules and forms for handling federal and California state civil cases through the pleading and motion phases of litigation.

PARA 97B Advanced Civil Litigation Procedures 4 Units

Prerequisite: Paralegal 94 or 95; Paralegal 97A; or professional experience appropriate to the topic.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Selected pretrial, discovery and post-trial procedures for paralegals; document preparation; judicial council form use; case analysis.

PARA 98 Drafting Wills and Trusts 4 Units

Prerequisite: Paralegal 94 or 95, or professional experience appropriate to the topic.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Substantive, procedural and drafting principles of wills and trusts and estate planning; role of paralegal in drafting wills and trusts, inventorying estates, and collecting data.

PARA 99 California Probate Law and Procedures 4 Units

Prerequisite: Paralegal 94 or 95, or professional experience appropriate to the topic.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

California probate substantive law and procedures including state and federal estate tax requirements, conservatorships and community property death transfers.

Peace Officer Standards and Training

POST 53A Basic Police Academy 33 Units

Prerequisite or Corequisite: (1) Peace Officer Standards and Training approved pre-entry English and mathematical skills assessment exam provided by the academy; (2) medical clearance by licensed physician; (3) criminal history clearance pursuant to penal code.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent.

Five hundred thirty-six, three hundred forty-four hours laboratory. Eight hundred eighty hours for the quarter.

This 880-hour course of training is certified by the Commission on Peace Officer Standards and Training to meet the statutory basic training requirements. Course requires a significant commitment in time and dedication. Requires both academic and physical skills in addition to extra motivation to endure the intensive agenda.

POST 54A Basic Academy (Modular, Level III-- Part 2) 5 Units

Prerequisite: Current valid PC-832 Arrest Methods & PC-832 Firearms Certificates; POST approved pre-entry English skills assessment exam provided by academy; criminal history clearance as provided by the Penal Code.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Nine and one-half hours lecture, one and one-third hours laboratory. One hundred thirty two hours for the quarter.

This course combined with the required PC 832 certificate meets POST requirements for a Level III Reserve Police Officer. The Level III certificate is a prerequisite for Level II and I.

POST 54B Basic Academy (Modular, Level II) 10 1/2 Units

Prerequisite: Current valid PC-832 Arrest Methods & PC-832 Firearms Certificates; completion of Level III, Parts I & II.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent.

Seventeen hours lecture, six hours laboratory. Two hundred eighty hours total for the quarter.

This course combined with the required PC 832 certificates meet POST requirements for a Level II Reserve Police Officer. The Level II certificate is a prerequisite for Level I.

POST 54C Basic Academy (Modular, Level I) 18 3/4 Units

Prerequisite: Current valid PC-832 Arrest Methods & PC-832 Firearms

Certificates; completion of Level III and Level II; POST approved comprehensive exam provided by academy; medical examination/clearance by a licensed physician.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Twenty one hours lecture, twenty one hours laboratory. Five hundred hours total for the quarter.

This course combined with the required PC 832 certificates meet POST requirements for a Level I Reserve Police Officer.

POST 69 Field Training Program 3 Units

POST 69P 6 Units

POST 69Q 9 Units

POST 69R 12 Units

POST 69S 15 Units

POST 69T 18 Units

POST 69U 21 Units

POST 69V 24 Units

POST 69W 27 Units

POST 69X 30 Units

POST 69Y 33 Units

POST 69Z 36 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or

English as a Second Language 272 and 273; Mathematics 210 or equivalent.

Eighty to nine hundred sixty hours laboratory for the quarter.

(May be repeated for credit.)

Pass-No Pass (P-NP) course.

A program certified to Law Enforcement Agencies in the State of California. The program is designed to certify the completion of specifications described in the "Field Training Officer Guide" from the Commission on Peace Officer Standards and Training. Students will be assigned in a patrol car, one-on-one with a certified Field Training Officer. The program introduces a newly assigned officer to the personnel procedures, policies and purposes of the individual law enforcement agency and provides the initial formal and informal training specific to the agency and the day-to-day duties of it's officers.

POST 100 Correctional Officer Basic 6 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or

English as a Second Language 272 and 273; Mathematics 210 or equivalent.

Ten hours lecture, three and one-third hours laboratory. One hundred sixty hours for the quarter.

This core training course is designed to meet the State Board of Corrections regulations for entry level training of correctional officers for adult institutions. Presents the lecture and practical application skills and knowledge to work in local adult jail facilities.

POST 101 Juvenile Counselor Core Course 6 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or

English as a Second Language 272 and 273; Mathematics 210 or equivalent.

Ten hours lecture, three and one-third hours laboratory. One hundred sixty hours for the quarter.

This course is designed to meet the California Board of Corrections requirements for entry level training of juvenile institutions staff.

POST 102 Probation Officer Core Course 7 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or

English as a Second Language 272 and 273; Mathematics 210 or equivalent.

Fourteen hours lecture, three and one-fourth hours laboratory. Two hundred eight hours for the quarter.

Provides the trainee with the basic concepts, tools, skills, etc. necessary to perform the job of probation officer within the State of California and prepare the graduate for the job. Certified by the State Board of Corrections, Training and Standards for Corrections (STC). Testing on the various topics covered will be both written and practical in nature. This course includes 208 hours of training.

POST 103 Supervisor's Update 3 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or

English as a Second Language 272 and 273; Mathematics 210 or equivalent.

Two and one-half hours lecture, four hours laboratory. Eighty hours for the quarter.

This 80 hour course includes values and ethics, role identification, leadership styles, assertive leadership, legal/liability issues, employee performance appraisal, counseling, discipline, employee relations, administrative support, press relations, planning and organizing, communications, report review, investigations, stress and the transition. This course will be updated regularly for currency according to Standards and Training for Corrections.

POST 104 Laws of Arrest and Firearms (832 P.C.) 1 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or

English as a Second Language 272 and 273; Mathematics 210 or equivalent.

One hour lecture, two and one-half hours laboratory. Forty hours for the quarter.

Principles, methods and laws of arrest as required by State of California Peace Officer Standards and Training.

POST 104B PC 932 (Firearms) 3/4 Unit

Prerequisite: Criminal history clearance as provided by Penal Code.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent. Two-thirds hour lecture, one and one-third hour laboratory. Twenty four hours total for the quarter.

(May be taken up to three times for credit.)

Pass-No Pass (P-NP) course.

This course is the basic POST certified 24-hour firearms training with qualification certificate upon completion.

POST 105 Probation Annual Training 7 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent. Fourteen hours lecture, three and three-fourths hours laboratory. Two hundred eight hours for the quarter.

This course fulfills the California State Board of Corrections annual training requirement for eligible staff to remain current and to upgrade knowledge and skills. Content reflects advisory board, state standards, and agency education and training objectives for probation officers, adult institutions, and juvenile institutions staff.

POST 110 Basic Public Safety Dispatch 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent. Two and one-half hours lecture, seven and one-half hours laboratory. One hundred twenty hours for the quarter.

This course is designed to provide dispatchers with the necessary skills and knowledge to perform their job. Curriculum includes computer systems, familiarization, legal updates, communication techniques, etc. It may contain Peace Officer Standards and Training curriculum, as well as local training mandates.

POST 111 Public Safety Dispatch (Update) 1 1/2 Units
POST 111W 4 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent. POST 111 is ten hours lecture, thirty hours laboratory (forty total hours) for the quarter. POST 111W is thirty hours lecture, ninety hours laboratory (one hundred twenty hours total) for the quarter.

This course is designed to provide experienced dispatchers with the necessary skills and knowledge to remain current in job skills and knowledge. Curriculum includes computer systems familiarization, legal updates, communication techniques, etc. It may contain Peace Officer Standards and Training curriculum as well as local training mandates.

POST 112 Emergency Medical Dispatch 1 1/2 Units

Prerequisite or Corequisite: Current CPR certification.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent. Two and one-half hours lecture, one hour laboratory. Forty hours for the quarter.

This forty hour course will supplement other dispatch courses and is designed to familiarize dispatchers with the overall emergency medical system, provide them with the skills to effectively conduct a medical interrogation and communicate pre-arrival instructions to a caller reporting a medical emergency.

POST 113 Communication Training Officer 1 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent. Two and one-half hours lecture, one hour laboratory. Forty hours for the quarter.

This course is designed to educate communications trainers about their responsibilities and roles in training new dispatchers. The course includes topics such as role of the trainer, elements of instruction, legal aspects and liability, evaluations and documentation, critical incident stress, and practical exercises.

POST 114 Basic Fire Dispatch 3 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent. One and two-thirds hours lecture, five hours laboratory. Eighty hours for the quarter.

This eighty hour course is designed to provide basic fire dispatcher training for entry level and/or experienced dispatchers.

POST 115 Fire Dispatch Update 1 1/2 Units
POST 115W 3 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent. POST 115 is ten hours lecture, thirty hours laboratory (forty total hours) for the quarter. POST 115W is twenty hours lecture, sixty hours laboratory (eighty total hours) for the quarter.

Designed to provide experienced fire dispatchers with the skills and knowledge necessary to maintain job skills. It completes and updates requirements for basic fire dispatch course.

POST 116 Non-Lethal Chemical Agents Training 1/3 Unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent.

Six hours lecture, two hours laboratory. Eight total hours for the quarter. Includes types of non-lethal chemical agents, methods of dispersal and delivery, safety, first aid, tactics, use of the gas mask and applicable penal code sections. This course is a Peace Officers Standards and Training certified course which is designed to provide sufficient training for use of tear gas and other chemical agents.

POST 117 Advanced Officer Training 3/4 Unit
POST 117W 1 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent.

POST 117 is twenty hours lecture for the quarter. POST 117W is forty hours lecture for the quarter.

(May be taken for credit once every two years.)

Designed to provide a mechanism whereby agencies may insure that the necessary new skills required of police officers have been provided and that previously learned skills are maintained and reinforced. It will enable the agency to provide a means of correcting deficiencies while satisfying state teaching requirements. New information and changes in the criminal justice system affecting police officers and, when necessary, a review of previously acquired materials will be provided. This course satisfies advanced officer training requirements.

POST 121 Community Service Officer 3 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent.

Six hours lecture, one hour laboratory. Eighty hours for the quarter. This 80 hour course provides basic information for newly hired community service officers. These employees provide a variety of law enforcement related services, freeing sworn officers for tasks requiring higher level skills and training. The course covers criminal law and procedures, patrol procedures, community relations, traffic enforcement and investigation, investigating procedures, first aid/CPR, report writing, and hazardous materials response.

POST 122 Field Training Officer 1 1/2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent.

Two and one-third hours lecture, one hour laboratory. Forty hours for the quarter. This course is primarily designed for police officers that have been or will be accepted into field training officer programs in their respective law enforcement agencies. This course has certification from the California Commission on Peace Officer Standards and Training and follows the guidelines and standards under 832.3 of the Penal Code.

POST 123 Field Evidence Technician 3 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent.

Four hours lecture, two and one-half hours laboratory. Eighty hours for the quarter.

This is an 80 hour in-service course which provides training for law enforcement investigators at a crime scene where evidence needs to be identified, processed, collected and/or safeguarded. The student will be trained in evidence photography, crime scene sketching and appropriate reporting.

POST 124A Background Investigations 3/4 Unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent. Three and one-third hours lecture. Thirty-six hours for the quarter.

A Peace Officer Standards and Training certified course designed to develop in law enforcement officers the skills to be an accomplished background investigator. This course includes the fundamentals of background investigation, interviewing, the use of psychological screening, polygraphs, legal aspects of background investigation, and verbal/nonverbal communication.

POST 124B Drug Investigation (11550) 1 Unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent.

Two hours lecture. Twenty-four hours for the quarter.

This is an 11550 Health and Safety Code course covering restricted dangerous drugs: opiates, cocaine, PCP, etc. This course is designed for law enforcement officers desiring to upgrade, refine, or develop an expertise in the field recognition, identification and apprehension of individuals under the influence of narcotics and dangerous drugs. Included is informant development and District Attorney legal update.

POST 125 Police Officer Supervisor 3 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent. Six and one-third hours lecture, one-third hour laboratory. Eighty hours for the quarter.

This course emphasizes the basic elements of supervision and how they may be applied to police work. Essentials of good leadership and understanding of the basic needs of human beings as well as ways to stimulate subordinates to better performance are the contents of the course. Designed for new sergeants emphasizing the basic elements of supervision, teacher training, conference leadership, and related law enforcement subjects as outlined by Peace Officer Standards and Training.

POST 206N	Special Topics in POST	1/4 Unit
POST 206P		1/2 Unit
POST 206Q		3/4 Unit
POST 206R		1 Unit
POST 206S		1 1/2 Units
POST 206T		2 Units
POST 206U		2 1/2 Units
POST 206V		3 Units
POST 206W		3 1/2 Units
POST 206X		4 Units
POST 206Y		4 1/2 Units
POST 206Z		5 Units

(Formerly Peace Officer Standards and Training 106N.)

Credit course - Does not apply to De Anza Associate degree.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours lecture-laboratory for each unit of credit.

(Any combination of Peace Officers and Standard Training 206N-Z may be taken up to six times, not to exceed 18 units, as long as the topics are different each time.)

Pass-No Pass (P-NP) course.

In-service training curriculum for personnel attending annual updates, recertifications, remediation, and assorted legal skills related seminars mandated by the Commission on Peace Officer Standards and Training on an ongoing basis.

POST 207	Skills and Knowledge Module Training	1/4 Unit
POST 207M		1/2 Unit
POST 207N		3/4 Unit
POST 207P		1 Unit
POST 207Q		1 1/4 Units
POST 207R		1 1/2 Units
POST 207S		1 3/4 Units
POST 207T		2 Units
POST 207U		2 1/4 Units
POST 207V		2 1/2 Units
POST 207W		2 3/4 Units
POST 207X		3 Units
POST 207Y		3 1/4 Units
POST 207Z		3 1/2 Units

(Formerly Peace Officer and Standards Training 107.)

Credit course - Does not apply to De Anza Associate degree.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent.

Two hours lecture-laboratory for each unit of credit.

(Each module may be taken up to three times for credit, every two years.)

Pass-No Pass (P-NP) course.

In-service training curriculum for personnel attending annual updates, recertifications, remediation, and assorted legal skills related seminars.

Persian

PERS 1 Elementary Persian (First Quarter) 5 Units

(Formerly Persian 91.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Introduction to the language and cultures of the Persian-speaking world. Basic speaking, listening, reading, and writing of Persian will be introduced and practiced within a cultural framework and will be the primary language of instruction. Language laboratory practice to reinforce pronunciation, grammar, syntax, and conversation.

PERS 2 Elementary Persian (Second Quarter) 5 Units

(Formerly Persian 92.)

(See general education pages for the requirement this course meets.)

Prerequisite: Persian 1 (equivalent to one year of high school Persian) or equivalent.

Five hours lecture.

Further development of material presented in Persian 1. Continuation of introduction to the language and cultures of the Persian-speaking states. Basic speaking, listening, reading and writing of Persian will be introduced and practiced within a cultural framework. Emphasis will be on language as an expression of culture with special interest in communication skill-building. Language laboratory practice to reinforce pronunciation, grammar, and syntax.

PERS 3 Elementary Persian (Third Quarter) 5 Units

(Formerly Persian 93.)

(See general education pages for the requirement this course meets.)

Prerequisite: Persian 2 (equivalent to two years of high school Persian) or equivalent.

Five hours lecture.

Further development of material presented in Persian 1 and 2 with further introduction to the language and cultures of the Persian-speaking countries. Basic speaking, listening, reading and writing of Persian introduced and practiced within a cultural framework. Language laboratory practice to reinforce pronunciation, grammar, and syntax.

PERS 4 Intermediate Persian (First Quarter) 5 Units

(Formerly Persian 94.)

(See general education pages for the requirement this course meets.)

Prerequisite: Persian 3 (equivalent to three years of high school Persian) or equivalent.

Five hours lecture.

Reading and discussion of texts dealing with the literature, arts, geography, history and culture of the Persian-speaking world. Review of the linguistic functions and grammar structures of introductory (elementary-level) Persian. Development of reading, writing, speaking and listening skills at the first intermediate level.

PERS 5 Intermediate Persian (Second Quarter) 5 Units

(Formerly Persian 95.)

(See general education pages for the requirement this course meets.)

Prerequisite: Persian 4 (equivalent to four years of high school Persian) or equivalent.

Five hours lecture.

Reading and discussion of texts dealing with the literature, arts, geography, history and culture of the Persian-speaking world. Review of the linguistic functions and grammar structures of introductory (elementary-level) Persian. Continued development of reading, writing, speaking and listening skills at the intermediate level.

PERS 6 Intermediate Persian (Third Quarter) 5 Units

(Formerly Persian 96.)

(See general education pages for the requirement this course meets.)

Prerequisite: Persian 5 or equivalent.

Five hours lecture.

Reading and discussion of texts dealing with the literature, arts, geography, history and culture of the Persian-speaking world. Review of the linguistic functions and grammar structures of first-year Persian. Development of reading, writing, speaking and listening skills at the third-intermediate level.

Philosophy

PHIL 1 Knowledge and Reality 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

A multicultural examination of philosophy as love of speculative and practical wisdom. What philosophers throughout the world have thought about reality and what constitutes our knowing of reality will be the major focus of the course.

PHIL 2 Social and Political Philosophy 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Examines fundamental issues and methods in social and political philosophy in their historical and cultural contexts. Issues include rights, equality, justifications for hierarchy, political systems (such as democracy, dictatorship, and collectivism), analysis of sources of inequality and domination as well as practices that challenge inequality domination.

PHIL 3 Critical Thinking and Writing 5 Units <i>(See general education pages for the requirement this course meets.)</i> <i>Prerequisite: English Writing 1A or English as a Second Language 5.</i> <i>Five hours lecture.</i> An introduction to the study of argumentation, critical evaluation, the structure of language in written composition, and research techniques. Practical applications of critical thinking skills in everyday situations such as problem solving and evaluation of arguments will also be explored. A major research paper is also required for the course.	PHIL 17 Critical Consciousness and Social Change 4 Units <i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: English Writing 1A or English as a Second Language 5.</i> <i>(Also listed as Intercultural Studies 17. Student may enroll in either department, but not both, for credit.)</i> <i>Four hours lecture.</i> An introduction to the basic issues and concepts related to social change, including the development of ways of thinking that promote social change. Students will read classical and contemporary authors on movements for social change, strategies for organizing, and the development of political consciousness.
PHIL 4 Critical Thinking 4 Units <i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: English Writing 1A or English as a Second Language 5.</i> <i>Four hours lecture.</i> An introduction to the study of argumentation, critical evaluation, and the use of language in interpretation of diverse forms of discourse. Explores practical applications of critical thinking skills in everyday situations such as problem solving and evaluation of arguments.	PHIL 20A History of Western Philosophy: Ancient Greece 4 Units <i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: English Writing 1A or English as a Second Language 5.</i> <i>Four hours lecture.</i> An introduction to the major philosophers in the Western tradition from the pre-Socratics through Plato and Aristotle. Focus will be on these philosophers' ideas about the nature of knowledge, what it means to be a human being, and the roots of the idea of philosophy as it is understood in the Western tradition.
PHIL 7 Deductive Logic 4 Units <i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: English Writing 1A or English as a Second Language 5.</i> <i>Four hours lecture.</i> Study of the concepts and methods of deductive logic, developing and using logical symbols, formal proof techniques, and focusing on sentential and predicate logic.	PHIL 20B History of Western Philosophy: 1400 - 1800 4 Units <i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: English Writing 1A or English as a Second Language 5.</i> <i>Four hours lecture.</i> An introduction to the major philosophers of the Western tradition from the Renaissance through the early modern period, with a focus on thinkers such as Descartes, Hume, and Kant. An engagement with these thinkers' ideas about the nature of science, the relationship between reason and religion, and the relationship between mind and body.
PHIL 8 Ethics 4 Units <i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: English Writing 1A or English as a Second Language 5.</i> <i>Four hours lecture.</i> An integrated and multicultural study of Ethical philosophy. Emphasis will be given to topics such as moral reflection, moral reasoning, moral decision making, and action. The course examines many approaches to Ethics (both Eastern and Western). Readings will be selected from moral philosophy, history, psychology, socio-cultural criticism, ethnic studies, and other sources (such as film and literature).	PHIL 20C History of Western Philosophy: 1800 - the Present 4 Units <i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: English Writing 1A or English as a Second Language 5.</i> <i>Four hours lecture.</i> An introduction to the major philosophers of the Western tradition from 1900 to the present with an emphasis major philosophers such as Hegel, Russell, Nietzsche, Sartre, DeBeauvoir, and Wittgenstein. An examination of questions about the relationship between language and thought, the nature of human existence, and the limits of Philosophy.
PHIL 9 Philosophy of Science 4 Units <i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: English Writing 1A or English as a Second Language 5.</i> <i>Four hours lecture.</i> Examines central issues in the philosophy of science. Issues will include the aims of science, scientific explanation, the nature of scientific theories, rationality and the development of science, the relationship between natural and social sciences, the influences of social phenomena such as race, gender, and culture on science, and the influences of science on society.	PHIL 24 Philosophy of Religion 4 Units <i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>Four hours lecture.</i> An introduction to Philosophy of Religion investigating the dimensions of religious experience and life under the scope of philosophy. Examines types of religions and the religious dimensions of life expressed in many cultures from many different historical periods throughout the world. Analyzes the emergence of modern philosophy of religion and its major issues, as well as current issues in contemporary philosophy of religion, including such issues as: the cognitive component in religious experience, religion and feminism, religious fundamentalism, pre-axial and axial religions, the religious attitude in religious secularity, and attitudes toward both philosophy and religion in a variety of cultural contexts.
PHIL 10 Philosophy of Democracy 4 Units <i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: English Writing 1A or English as a Second Language 5.</i> <i>Four hours lecture.</i> An introduction to the philosophy of democracy. A cross-cultural and historical examination of ideas about democracy and how democracy works.	PHIL 30 Introduction to Existentialism 4 Units <i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: English Writing 1A or English as a Second Language 5.</i> <i>Four hours lecture.</i> Examination of the problems of knowledge, reality, truth, and value, freedom, and agency in existential thinkers. Emphasis will be given to existential applications to social, aesthetic, cultural, gender, historical, and religious issues.
PHIL 14A Indian Philosophy 4 Units <i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: English Writing 1A or English as a Second Language 5.</i> <i>(Also listed as Humanities 14A. Student may enroll in either department, but not both, for credit.)</i> <i>Four hours lecture.</i> A study of the development of philosophical thought in India. Primary emphasis is given to the orthodox darshanas, especially Jaina.	PHIL 49 Women and Philosophy 4 Units <i>(Formerly Philosophy 55.)</i> <i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: English Writing 1A or English as a Second Language 5.</i> <i>(Also listed as Women's Studies 49. Student may enroll in either department, but not both, for credit.)</i> <i>Four hours lecture.</i> Examination of feminist theory and philosophy produced by a diverse range of women and investigation of the ways that understandings of the relations between the sexes have influenced the work of philosophers from different cultures.
PHIL 14B Chinese Philosophy 4 Units <i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: English Writing 1A or English as a Second Language 5.</i> <i>(Also listed as Humanities 14B. Student may enroll in either department, but not both, for credit.)</i> <i>Four hours lecture.</i> An introduction to classical Chinese philosophies (roughly the philosophies that flourished in China prior to unification in 221 B.C.E.), emphasizing Confucianism, Moism, Yangism, The Logicians, Han Fei Tzu, and the schools and texts that get antecedently labeled "Daoism. In addition to the classical period of Chinese philosophy, some attention will be given to the evolution of philosophical thought in China, such as the introduction of Buddhism and other elements (as represented, for example, by Wang Yangming). Finally, philosophical examination of contemporary China will be considered.	
PHIL 14C Japanese Philosophy 4 Units <i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: English Writing 1A or English as a Second Language 5.</i> <i>(Also listed as Humanities 14C. Student may enroll in either department, but not both, for credit.)</i> <i>Four hours lecture.</i> A study of philosophical thought in Japan including Zen Buddhism, Shinto, and contemporary thinkers.	

Photography

PHTG 1 Basic Photography 3 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Mathematics 210 or equivalent.

Two hours lecture, three hours laboratory.

Introduction to black and white photography. Overview of the 35mm, single lens reflex, camera operating system. Basic understanding of film processing, printing and finishing. Development of critical thinking skills to analyze historical, cultural, conceptual, and practical aspects of a medium used worldwide. Preparatory for further work in photography including digital imaging.

PHTG 2 Intermediate Photography 3 Units

Prerequisite: Photography 1.

Two hours lecture, three hours laboratory.

Intermediate black and white photography. Overview of the medium format camera and continued use of the 35mm camera. Demonstration of basic 4x5 camera principles. Introduction to studio portraiture and basic studio practices. Continued development of critical thinking skills to analyze historical, cultural, conceptual, and practical aspects of a medium used worldwide. Preparatory for further work in photography including digital imaging.

PHTG 3 Advanced Photography 3 Units

Prerequisite: Photography 2.

Two hours lecture, three hours laboratory.

Advanced black and white photography. Introduction to large format photography. Pre-visualization of the image and the application of the Zone System including archival print processing. Process and print technically and well-conceived images as part of a final portfolio. Refined development of critical thinking skills to analyze historical, cultural, conceptual and practical aspects of a medium used worldwide. Preparatory for further work in photography including digital imaging.

PHTG 4 Introduction to Digital Photography 3 Units

(Formerly Photography 64.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Two hours lecture, three hours laboratory.

An introduction to digital photography and digital imaging processes. Gain proficiency in the use of a digital camera and explore the digital darkroom using Adobe Lightroom. Develop skills in digital print output for both fine art and commercial applications. Gain knowledge of issues in contemporary photography and develop an ability to analyze and discuss photographic imagery. Basic, beginning photography and wet darkroom experience recommended.

PHTG 5 Intermediate Digital Photography 3 Units

(Formerly Photography 65.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Two hours lecture, three hours laboratory.

Further study of digital photography and digital imaging processes. Gain greater control over the quality of your digital images through shooting RAW (unprocessed, digital negatives), organization and development through Lightroom, and/or image editing with Photoshop. Create a work flow for producing quality prints. Discuss and analyze current trends in photography. Prior experience with a digital camera, Lightroom and/or Photoshop skills required or the equivalent.

PHTG 7 Exploring Visual Expression 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Exploring visual expression through the photographic medium. Understanding of basic principles of perception, light, color, composition and visual awareness. Development of "critical thinking" skills to express aesthetic, intellectual and emotional concerns. Instruction on the use of film and/or digital cameras, lenses, and other creative controls of photography.

PHTG 20 History of Early Photography from Its Beginnings to 1925 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

The development of amateur photography, major artistic styles, a comparison of photography and painting, drawing, and other visual arts will be explored. The course will also assess photography's impact on world communication, social change, and the interpretation and analysis of visual reality.

PHTG 21 Contemporary Trends in Photography 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

A comprehensive introduction to contemporary trends, styles and applications of photography starting in 1925. Examination of photography's broad impact as a cultural, visual and social force including the diversity of 20th Century photographic movements as photography enters the 21st Century.

PHTG 52 Photography Production Lab 1 Unit PHTG 52X 2 Units

Corequisite: Photography 52 students must also enroll in a Photography Department course other than Photography 1, 7, 20, or 21. Photography 52 and 52X may not be taken concurrently.

Three hours laboratory per week for each unit of credit.

(Any combination of Photography 52 and 52X may be taken up to six times for credit.)

Supervised use of photographic studio and darkrooms toward fulfillment of projects assigned in other photography courses.

PHTG 54 Experimental Photography 3 Units

Prerequisite: Photography 1.

Two hours lecture, three hours laboratory.

Introduction to experimental and nontraditional photographic processes through the use of analog and digital photography. View both historical and contemporary approaches to camera and darkroom use in the creation of photographic imagery. Make enlarged negatives, create cyanotype and VanDyke brown prints, tone and handcolor images, and use digital imaging to emulate these and other traditional processes. Produce an engaging and expressive collection of images.

PHTG 56A Color Photography I 4 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Mathematics 210 or equivalent; Photography 1.

Two hours lecture, six hours laboratory.

Negative-positive color systems. Development of basic color-printing processing, and skills needed to evaluate and balance color prints. Contemporary styles in color photography, including the impact of digital media on color photography.

PHTG 56B Color Photography II 4 Units

Prerequisite: Photography 56A.

Two hours lecture, six hours laboratory.

Reversal systems for color photography, color reversal film exposure techniques with handheld light meters, introduction to the 4x5 view camera, basic studio lighting and advanced RA-4 printing techniques.

PHTG 57A Commercial Photography I 3 Units

Advisory: Photography 3 and 56A.

Two hours lecture, three hours laboratory.

Photographs for business and industry. Corrective camera techniques, portrait and product photography, use of studio lights to model form and texture, control of reflections.

PHTG 57B Commercial Photography II 3 Units

Advisory: Photography 3 and 56A.

Two hours lecture, three hours laboratory.

Architectural and fashion photography. Commercial studio organization and operation. Business records, pricing, laws of ownership and privacy. Preparation of a portfolio for seeking employment.

PHTG 58 Using a Digital Camera 2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture-laboratory.

An online introduction to the use of digital cameras; basic camera types, controls, storage, image size, and display will be covered. Technical and compositional exercises will enhance the understanding of digital cameras and techniques covered.

PHTG 58A Beginning Digital Imaging 3 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Mathematics 210 or equivalent.

Two hour lecture, three hours laboratory.

Introduction to digital imaging using the application Photoshop. Overview of Macintosh operating system. Basic understanding of image capture, input, storage, and output. Use of specifically photographic methods and controls to create and manage imagery in an all digital environment. The development of critical thinking skills to analyze diverse cultural, intellectual, philosophical, ethical and aesthetic concerns of the photographic medium as a part of new technologies.

PHTG 58B Intermediate/Advanced Digital Imaging 3 Units

Prerequisite: Photography 58A.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Mathematics 210 or equivalent.

Two hours lecture, three hours laboratory.

Refinement of digital imaging skills using the application Photoshop. Learn channel mixing, advanced layering, and masking techniques. Understanding of color management, optimization of the toolbox and an introduction to large format printing. Use of specifically photographic methods and controls to create and manage imagery in an all-digital environment. Development of critical thinking skills to analyze diverse cultural, intellectual, philosophical, ethical and aesthetic concerns of the digital photograph.

PHTG 77 Special Projects in Photography 2 Units
(Formerly Photography 59.)
Prerequisite: Photography 2 and/or 56B or 58B; and consent of instructor and division dean.
Six hours laboratory.
(May be taken two times for credit as long as the projects are different each time.)
 Individual projects in creative, technical, or applied photography by written arrangement with the instructor. A specific area is explored in depth and quality.

PHTG 78 Special Topics in Photographic Studies 1/2 Unit
PHTG 78X 1 Unit
PHTG 78Y 2 Units
PHTG 78Z 3 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
One hour lecture for each unit of credit.
(Any combination of Photography 78, 78X, 78Y and 78Z may be taken up to six times, not to exceed 18 units, as long as the topics are different each time.)
 In depth study of influential photographer, genre, movement, photographic method, technique, or historical period. The topic studied is specific, specialized and different for each section of the course for example: visiting artist/photographer, study of women in photography, cultural diversity within the medium, documentary work, portraiture, landscape genres, modern, postmodern movements, new directions, new equipment and/or software, business practices, or special techniques (see course note in the quarterly schedule of classes).

Physical Education

P E 1A Softball 1/2 Unit
P E 1AX 1 Unit

(See general education pages for the requirement this course meets.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.
(Any combination of Physical Education 1A and 1AX may be taken up to six times for credit.)
 An introduction to the discipline of Physical Education through the sport of softball. Includes a global and historical examination of the sport, rules, equipment, facilities, etiquette, and beginning skills and strategy as related to playing the game. Fundamental skills and rules pertaining to softball. Analysis of basic strategy in a game situation and the different outcomes resulting from specific player actions will be covered. Basic exercise physiology, nutrition, flexibility and strength concepts to improve physical condition will be included.

P E 1H Team Sport - Basketball 1/2 Unit
P E 1HX 1 Unit

(See general education pages for the requirement this course meets.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.
(Any combination of Physical Education 1H and 1HX may be taken up to six times for credit.)
 An introduction to, the discipline of Physical Education through team sport basketball. Activities include individual and team strategies and techniques required for competitive games. A brief historical examination of significant national and international contributions to the development of styles of play will be presented. The impact of culture and gender on amateur and professional levels of competition will also be analyzed. Skills emphasized will enable students to participate in formal and informal basketball activities. Students will recognize basketball needs associated with physiology, nutrition, flexibility, and strength concepts in order to improve level of skill. Instructors will motivate and encourage students to practice and adapt skills to physical ability, age, strength, and gender. Major emphasis on tournament format participation.

P E 2A Beginning Karate 1/2 Unit
P E 2AX 1 Unit

(See general education pages for the requirement this course meets.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.
(Any combination of Physical Education 2A, 2AX, 2B and 2BX may be taken up to six times for credit for the family of courses.)
 An introduction to the discipline of physical education through the discipline of karate. Includes, a global and historical examination of the sport, rules, equipment, and etiquette. Students will analyze and demonstrate the application of traditional Japanese Shotokan karate techniques including blocking, punching, kicking striking and stances. Students will strive to understand and apply basic exercise physiology, nutrition, flexibility and strength concepts in an effort to improve their physical condition. Considerations for the variables that occur due to age, gender and physical conditions will be covered.

P E 2B Intermediate Karate 1/2 Unit
P E 2BX 1 Unit

(See general education pages for the requirement this course meets.)
Prerequisite: Physical Education 2A or 2AX, or approval of instructor.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.
(Any combination of Physical Education 2A, 2AX, 2B and 2BX may be taken up to six times for credit for the family of courses.)
 An introduction to the discipline of physical education through the discipline of karate. Includes, a global and historical examination of the sport, rules, equipment, and etiquette of the sport. Intermediate karate skills and techniques of Japanese karate will be covered including blocking, punching, kicking, stances and individual evasive movement, and group interaction. Students will strive to understand and apply basic exercise physiology, nutrition, flexibility, and strength concepts in an effort to improve their physical condition in order to train at a more advanced level, with consideration for the variables that occur due to age, gender and physical conditions.

P E 2K Aikido 1/2 Unit
P E 2KX 1 Unit

(See general education pages for the requirement this course meets.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.
(Any combination of Physical Education 2K, 2KX, 2L and 2LX may be taken up to six times for credit for the family of courses.)
 An introduction to the discipline of Physical education through the study of Martial Arts in the form of Aikido. Includes a global and historical examination, key philosophical concepts of the Aikido tradition and the evolution of Aikido to its present form. Students will practice simple Aikido techniques for the mind, body and spirit that can easily be incorporated into daily life. Rotation movements, mindfulness, breath awareness, and relaxation techniques will be covered. The course will incorporate basic exercise physiology, nutrition, strength development, flexibility and meditation techniques as related to Aikido and health.

P E 2L Intermediate Aikido 1/2 Unit
P E 2LX 1 Unit

(See general education pages for the requirement this course meets.)
Prerequisite: Physical Education 2K, 2KX, or technical proficiency suitable to the course level.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.
(Any combination of Physical Education 2K, 2KX, 2L and 2LX may be taken up to six times for credit for the family of courses.)
 Further examination of discipline of Physical education through the study of Martial Arts in the form of Aikido. Students will practice Intermediate Aikido techniques for the mind, body and spirit that can easily be incorporated into daily life. Rotation movements, mindfulness, breath awareness, and relaxation techniques will be covered. The course will incorporate exercise physiology, nutrition, strength development, flexibility and meditation techniques as related to Aikido and health.

P E 2P Pilates Mat Exercise 1/2 Unit
P E 2PX 1 Unit

(See general education pages for the requirement this course meets.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.
(Any combination of Physical Education 2P and 2PX may be taken up to six times for credit.)
 An introduction to physical education through the study of Pilates. Includes a global and historical perspective, and key philosophical concepts of the Pilates method. Students will practice mat techniques and the use of equipment to improve the mind, and body. Includes basic exercise physiology concepts, nutrition, strength development, flexibility, and the six principles of Pilates.

P E 2Q Tai Chi 1/2 Unit
P E 2QX 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 2Q, 2QX, 2R and 2RX may be taken up to six times for credit for the family of courses.)

An introduction to the discipline of Physical Education through Tai Chi exercises including well-known short forms consisting of 24 postures. Principles of unity, centering, balance, alignment, breath and mind intent, "yin and yang" relationships and the development of Chi. Benefits of Tai Chi exercise relative to age, gender and environmental conditions. Basic exercise physiology, nutrition, fundamentals of strength development, flexibility and meditation concepts as related to Tai Chi and "health and wellness". A global and historical examination of the Taoist philosophy and the development of various forms of Tai Chi.

P E 2R Intermediate Tai Chi 1/2 Unit
P E 2RX 1 Unit

(See general education pages for the requirement this course meets.)

Prerequisite: Physical Education 2Q or 2QX, or comparable level, or permission of instructor.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 2Q, 2QX, 2R and 2RX may be taken up to six times for credit for the family of courses.)

Further examination of Physical Education through the ancient exercise of Tai Chi. Includes the well-known short forms consisting of 24 or 36 postures. Complete and polish movements of the 24 Tai Chi set, self-defense applications, "push-hands," and sparring will be performed. Review and embody principles of unity, centering, balance, alignment, breath and mind intent, "yin and yang" relationships and the development of Tai Chi at an intermediate level. Benefits of Tai Chi exercise relative to age, gender and environmental conditions will be studied. The course will incorporate basic exercise physiology, nutrition, strength development, flexibility and meditation techniques as related to Tai Chi and health.

P E 2S Cardio Tai-Chi 1/2 Unit
P E 2SX 1 Unit

(Formerly Physical Education 92S and 92SX respectively.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 2S and 2SX may be taken up to six times for credit.)

An introduction to physical education through the principles of cardio tai-chi. The student will gain cardiovascular fitness and health through this course. Includes an historical and global examination of the sport, orientation to aerobic exercise, tai-chi principles, cardio tai-chi basic movements, cardio tai-chi routines, partner drills and principles of self-defense. Principles of fitness and nutrition as they relate to cardio tai-chi will be discussed.

P E 2Y Yoga 1/2 Unit
P E 2YX 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 2Y and 2YX may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the study of yoga including a historical examination and key philosophical concepts of the yoga tradition and the evolution of yoga throughout the ages. Students will practice simple yoga poses for the mind, body, mindfulness, breath awareness, and relaxation techniques will be covered.

P E 3 Indoor Cycling ½ Unit
P E 3X 1 Unit

(Formerly Physical Education 50 and 50X respectively.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 3 and 3X may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through indoor cycling. It includes an historical examination of indoor/cycling, spinning. The cycling program is an individually paced, noncompetitive, group training program designed for all

riders and all fitness levels. Cardiovascular fitness and cycling techniques will be improved. Cycling is an exercise performed on a stationary racing bicycle and is performed to music. Training is fast paced, and is open to anyone who is interested in losing body fat, improving cycling techniques, and wants to improve cardio respiration.

P E 3AX Outdoor Cycling 1 Unit
P E 3AY 1 1/2 Units

(Formerly Physical Education 93A and 93AX respectively.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours laboratory for the one unit course; four and one-half hours laboratory for the one and one-half unit course.

(Any combination of Physical Education 3AX and 3AY may be taken up to six times for credit.)

An introduction to physical education through outdoor cycling for fitness. Students will be engaged in Bay Area bikerides utilizing the modern day bicycle as a means of fitness and recreation. Several weekend rides will feature safety, efficiency and local bicycle trails unique to the San Francisco Bay Area. Nutrition, cardiorespiratory endurance, strength development, gender differences, and age related conditioning workouts will be covered.

P E 3G Self-defense 1/2 Unit
P E 3GX 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Any combination of Physical Education 3G and 3GX may be taken up to six times for credit.)

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

An introduction to the discipline of Physical Education through personal self-defense. The course includes a historical and global examination of self-defense. It will provide the student with a sense of awareness and practical applications that will maximize the student's strength, endurance, and skill relative to gender, body build and physiology. Recognition of potential problems, attack prevention/avoidance, escape strategies, counterattack, kidnapping, and abduction will be discussed. Basic exercise physiology, nutrition, fundamentals of strength development, and flexibility will be examined.

P E 4 Strength Development 1/2 Unit
P E 4X 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 4, 4X and 4XX may be taken up to six times for credit for the family of courses.)

An introduction to the discipline of Physical Education through strength training. Includes rules, equipment, facilities, etiquette, safety and technique of strength development, and a brief historical examination of how strength training has changed due to the influence of individuals, their countries, and their styles of lifting techniques and strategies. The development of skill and technique and adaptations based on the physical ability, age and gender of the individual student will be encouraged. Students will review and apply basic exercise physiology, nutrition, flexibility and strength concepts to improve their physical condition.

P E 4XX High Intensity Strength Development for Athletes 1 Unit

Prerequisite: Enrollment in intercollegiate athletics.

Three hours laboratory.

(Any combination of Physical Education 4, 4X and 4XX may be taken up to six times for credit for the family of courses.)

Specific rigorous total body single set high intensity three day per week program. Based on the principles of high intensity lifting. Emphasizing concentric and eccentric failure. Utilizing nautilus and free weight apparatus.

P E 5AX Spin/Swim Fitness 1 Unit
P E 5AY 1 1/2 Units

(Formerly Physical Education 95A and 95AX respectively.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours laboratory for the one unit course; four and one-half hours laboratory for the one and one-half unit course.

(Any combination of Physical Education 5AX and 5AY may be taken up to six times for credit.)

An introduction to physical education through a combination of indoor cycling and swimming. A brief historical look at indoor cycling and swimming will be included. The course is a fast paced course for competitive or non-competitive students interested in health and fitness. Emphasis will be placed on cycling techniques, freestyle stroke refinements, nutrition, cardiorespiratory endurance, strength development, gender differences, and age related conditioning workouts.

P E 6B P E 6BX	Cross Training	1/2 Unit 1 Unit
(See general education pages for the requirement this course meets.) Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course. (Any combination of Physical Education 6B and 6BX may be taken up to six times for credit.)		
An introduction to the discipline of Physical Education including an historical examination of cross training. Cardiovascular fitness will be increased through circuit and interval training. Agility, speed, strength, and flexibility will be enhanced through the utilization of a variety of fitness equipment. Strength, cardiovascular, flexibility and body composition assessments will be included in course activities. Students will participate indoors as well as outdoors.		
P E 6D P E 6DX	Body Sculpting	1/2 Unit 1 Unit
(Formerly Physical Education 52 and 52X respectively.) Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course. (Any combination of Physical Education 6D and 6DX may be taken up to six times for credit.)		
The body sculpt course is an introduction to the discipline of Physical Education. It includes an historical examination of Core strengthening. Body sculpt conditioning is an integrated approach that focuses on developing the muscles of the entire body. Through body sculpting the student will achieve ultimate fitness by focusing on a program of strength, balance, agility and flexibility. Concentration will be on muscles of the entire body. Resistance training, medicine balls, stability balls, and the body bar will be used in conjunction with proper breathing, posture, and muscle awareness.		
P E 6F P E 6FX	Deep Water Running	1/2 Unit 1 Unit
(See general education pages for the requirement this course meets.) Prerequisite: Physical Education 26C, 26CX. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course. (Any combination of Physical Education 6F and 6FX may be taken up to six times for credit.)		
An introduction to the discipline of Physical Education through deep water running including an historical and global examination of deep water running for fitness and rehabilitation. Students will improve fitness through a program of cardiovascular endurance, strength development and flexibility using water based exercise routines.		
P E 6G P E 6GX	Aerobic Swimming	1/2 Unit 1 Unit
(See general education pages for the requirement this course meets.) Prerequisite: Completion of Physical Education 26C and 26CX; or permission of instructor. Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course. (Any combination of Physical Education 6G and 6GX may be taken up to six times for credit.)		
An introduction to the discipline of Physical Education through aerobic swimming. Cardiovascular conditioning for the swimmer who is proficient at the intermediate level. Includes global and historical development of swimming as a fitness activity, a review of training methods, measurements, safety, individual program design, exercise physiology and nutrition appropriate to swimming. Intermediate to advanced stroke skills, turns, body positioning, and overall efficiency in the water will be covered.		
P E 6H P E 6HX	Aerobic Power Walking	1/2 Unit 1 Unit
(See general education pages for the requirement this course meets.) Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course. (Any combination of Physical Education 6H and 6HX may be taken up to six times for credit.)		
An introduction to the discipline of Physical Education through aerobic power walking. Includes an historical and global examination of walking for health and fitness. Students will improve fitness through a progressive program of walking, strength development, and flexibility exercises. Adaptations of the exercises to individual physical abilities and principles of fitness and nutrition will be covered.		

P E 6K P E 6KX	Cardio Kick	1/2 Unit 1 Unit
(See general education pages for the requirement this course meets.) Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course. (Any combination of Physical Education 6K and 6KX may be taken up to six times for credit.)		
An introduction to the discipline of Physical Education through the activity of Cardio Kick. Dynamic kickboxing techniques are used to provide a level of conditioning for both the aerobic and anaerobic systems. The freestyle interval format combines boxing and kicking drills specific to martial arts and kickboxing integrating the mind/body elements of attitude, readiness, visualization, reaction and fun. Students will participate in a safe, modifiable, program to improve overall fitness, agility, balance, strength, and endurance. An historical examination of Cardio Kick for fitness and its roots in the sports of kickboxing, boxing, and martial arts will be included.		
P E 6Q P E 6QX	Lo Impact Aerobic Rhythms	1/2 Unit 1 Unit
(See general education pages for the requirement this course meets.) Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course. (Any combination of Physical Education 6Q, 6QX, 6R, 6RX, 6S and 6SX may be taken up to six times for credit for the family of courses.)		
An introduction to the discipline of Physical Education through cardiovascular/aerobic exercise utilizing lo impact techniques, current styles such as tai bo, funk, Latin, and hip hop. Students will learn fundamental patterns and routines with popular music accompaniment. Global and historical review of the evolution of aerobic exercise, exercise trends for men, women and athletes as they corresponded with the evolution of the discipline of Physical Education. Students will review and apply basic exercise physiology, nutrition and wellness concepts related to cardiovascular exercise relative to age, gender, or physical limitations.		
P E 6R P E 6RX	Hi-Lo Impact Aerobic Rhythms	1/2 Unit 1 Unit
(See general education pages for the requirement this course meets.) Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course. (Any combination of Physical Education 6Q, 6QX, 6R, 6RX, 6S and 6SX may be taken up to six times for credit for the family of courses.)		
An introduction to the discipline of Physical Education through cardiovascular/aerobic exercise utilizing hi and lo impact techniques, current styles such as Tai Bo, funk, Latin and Hip-hop. Students will learn fundamental patterns and routines with popular music accompaniment. Global and historical review of the evolution of aerobic exercise, exercise trends for men, women and athletes as they corresponded with the evolution of the discipline of Physical Education. Students will review and apply basic exercise physiology, nutrition and wellness concepts related to cardiovascular exercise relative to age, gender, or physical limitations.		
P E 6S P E 6SX	Step Aerobics	1/2 Unit 1 Unit
(See general education pages for the requirement this course meets.) Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course. (Any combination of Physical Education 6Q, 6QX, 6R, 6RX, 6S and 6SX may be taken up to six times for credit for the family of courses.)		
Cardiovascular/aerobic exercise utilizing a step system; current styles such as cardio-kick, funk, Latin and hip hop. Students will learn fundamental patterns and routines with popular music accompaniment. Global and historical review of the evolution of aerobic exercise, exercise trends for men, women and athletes as they corresponded with the evolution of the discipline of Physical Education. Students will review and apply basic exercise physiology, nutrition and wellness concepts related to cardiovascular exercise relative to age, gender, or physical limitations.		

De Anza College is
a smoke-free campus



P E 6U Fit Camp 1/2 Unit
P E 6UX 1 Unit
P E 6UY 1 1/2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 6U, 6UX and 6UY may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through fit camp. An historical examination of fit camp for fitness which includes a look at the U.S. Military boot camp regimen. The student will strive for ultimate fitness through a program of cardiovascular exercise including circuit and intervals, balance, agility, speed, strength, and flexibility training both indoors and outdoors. Strength, cardiovascular fitness, flexibility and body composition assessments will occur throughout the term.

P E 6V Core Conditioning 1/2 Unit
P E 6VX 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 6V and 6VX may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through core conditioning which is an integrated fitness approach that focuses on developing the stabilization muscles of the center of the body. Included is an historical examination of core strengthening. Concentration will be on muscles of the torso, back, hips, inner and outer thighs, chest and abdominals. Resistance training, medicine balls, stability balls, and the body bar will be used in conjunction with breathing, posture, and muscle awareness.

P E 8 Total Fitness 1/2 Unit
P E 8X 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 8 and 8X may be taken up to six times for credit.)

Introduction to the discipline of Physical Education through total fitness, including an historical and global examination of Total Fitness and conditioning. Students will improve fitness through a program of cardiovascular exercise, agility, speed, flexibility, and resistance training using both indoor and outdoor facilities. Fitness assessments will occur throughout the term.

P E 9 Cardiovascular and Strength Training 1/2 Unit
P E 9X 1 Unit
P E 9Y 1 1/2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 9, 9X and 9Y may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through cardiovascular and strength training. Includes rules, equipment, facilities, etiquette, safety and technique of cardiovascular and strength training. Includes a brief historical examination of how cardiovascular and strength training has changed due to the influence of individuals and their countries. Students will review and apply basic exercise physiology, nutrition, and flexibility concepts to improve their physical condition.

P E 10 Multi-Sport Training 1/2 Unit
P E 10X 1 Unit
P E 10Y 1 1/2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 10, 10X and 10Y may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through Multi-Sport fitness. An historical examination of multi-sport training methodology to include triathlon training. The student will strive for ultimate fitness through a program of cardiovascular exercise including interval training, strengthening exercises, and flexibility training both indoors and outdoors with an emphasis on aquatic fitness. Strength, cardiovascular fitness, and flexibility will be monitored and assessed throughout the term.

P E 11 Stretching 1/2 Unit
P E 11X 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 11 and 11X may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through Stretching. A variety of Stretching, techniques including passive and active, yoga, Tai Chi, Pilates, sport specific, therapeutic techniques with the aid of yoga straps, stability balls and other equipment will be taught. Emphasis on combining core strengthening, flexibility, balance and spatial awareness exercises will be included. Technique modifications to account for physical limitations and injury prevention will be emphasized. A brief examination of the evolution of the various forms of stretching reflecting cultural values and diversity, exercise physiology, nutrition and wellness concepts related to total fitness, age, gender, disabilities and/or genetics will be covered.

P E 12 Aqua Exercise 1/2 Unit
P E 12X 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 12 and 12X may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through Aqua Aerobics. This course uses dynamic aerobic exercise techniques to provide a level of conditioning for both the aerobic and anaerobic energy systems. A variety of aerobic type movements performed in land based programs such as running, jumping and skipping will be performed. Students will strive for ultimate fitness through a complete program of cardiovascular exercise, strength development, and flexibility. An historical examination of aqua aerobics for fitness, rehabilitation, and play will be included.

P E 13A Beginning Badminton 1/2 Unit
P E 13AX 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 13A, 13AX, 13B, 13BX, 13C, 13CX, 13T and 13TX may be taken up to six times for credit for the family of courses.)

An introduction to the discipline of Physical Education through badminton. Includes a global and historical examination of the sport, rules, equipment, facilities, etiquette, and basic strokes in beginning level badminton. Basic exercise physiology, nutrition, flexibility and strength concepts to improve physical condition will be discussed. The skills portion of the course will encourage an understanding of how to adapt the game and conventional techniques to age, gender and physical conditions.

P E 13B Intermediate Badminton 1/2 Unit
P E 13BX 1 Unit

(See general education pages for the requirement this course meets.)

Prerequisite: Skills acquired in Physical Education 13A or 13AX; or permission of instructor.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 13A, 13AX, 13B, 13BX, 13C, 13CX, 13T and 13TX may be taken up to six times for credit for the family of courses.)

An introduction to the discipline of Physical Education through the sport of Badminton. Includes a global and historical examination of the sport, rules, equipment, facilities and etiquette. Basic exercise physiology, nutrition, fundamentals of strength development and flexibility relative to playing at an intermediate level will be included. The course will encourage an understanding of how to adapt game strategies and conventional techniques to one's needs and abilities based on age, gender and environmental conditions, personal strengths and weaknesses.

P E 13C P E 13CX	Advanced Badminton	1/2 Unit 1 Unit
<i>(See general education pages for the requirement this course meets.)</i> <i>Prerequisite: Physical Education 13B or 13BX; or consent of the instructor.</i> <i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.</i> <i>(Any combination of Physical Education 13A, 13AX, 13B, 13BX, 13C, 13CX, 13T and 13TX may be taken up to six times for credit for the family of courses.)</i> Further examination of Physical Education through the sport of badminton. Includes an in depth study of the sport at an advanced level, rules, equipment, facilities, etiquette, and advanced skills and strategy as related to competitive play. Basic exercise physiology, nutrition, flexibility and strength concepts to improve physical condition in order to play at a more advanced level will be covered. The skills portion of the course will encourage an understanding of how to adapt the game and conventional techniques to age, gender and physical conditions.		
P E 13T P E 13TX	Tournament Badminton	1/2 Unit 1 Unit
<i>(See general education pages for the requirement this course meets.)</i> <i>Prerequisite: Physical Education 13C or 13CX.</i> <i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.</i> <i>(Any combination of Physical Education 13A, 13AX, 13B, 13BX, 13C, 13CX, 13T and 13TX may be taken up to six times for credit for the family of courses.)</i> Further examination of Physical Education through the sport of badminton. Includes an in depth study of advanced skills, the rules, equipment, facilities, etiquette, and strategy as related to tournament play. Basic exercise physiology, nutrition, flexibility and strength concepts to improve physical condition in order to play at a more advanced level will be covered. The skills portion of the course will encourage an understanding of how to adapt the game and competitive techniques to age, gender and physical conditions.		
P E 14A P E 14AX	Beginning Fencing	1/2 Unit 1 Unit
<i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.</i> <i>(Any combination of Physical Education 14A, 14AX, 14B and 14BX may be taken up to six times for credit for the family of courses.)</i> Fundamental techniques/skills utilizing the French foil. Students will learn the rules and regulations governing fencing competition. Fundamental exercise physiology, physiological benefits, nutrition and wellness concepts related to total fitness and individual variations due to age, gender, and/or genetics will be explored. A brief historical examination of the various styles of this international sport, its roots, famous male, female and junior champions of the Olympic, PANAM, and World Championships.		
P E 14B P E 14BX	Intermediate Fencing	1/2 Unit 1 Unit
<i>(See general education pages for the requirement this course meets.)</i> <i>Prerequisite: Skills acquired in Physical Education 14A or 14AX, or a comparable course.</i> <i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.</i> <i>(Any combination of Physical Education 14A, 14AX, 14B and 14BX may be taken up to six times for credit for the family of courses.)</i> Further examination of Physical Education through the sport of fencing with a French foil. Application of more complex combinations of blade and footwork that build upon the skills taught are transferable for use of the epee and sabre. The physiological benefits of fencing, fundamental exercise physiology, nutrition and wellness concepts related to total fitness and individual variations due to age, gender, and genetics will be explored.		
P E 15 P E 15X	Beginning Bowling	1/2 Unit 1 Unit
<i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i> <i>Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.</i> <i>(Any combination of Physical Education 15 and 15X may be taken up to six times for credit.)</i> An introduction to the discipline of Physical Education through the sport of bowling. Includes an historical examination, styles of play and strategies of the sport. Students will strive to develop basic skills including approach, types of deliveries, strategy,		

etiquette, and league play associated with the sport of bowling. Adaptations related to gender, age and physical conditioning will be addressed. Principles associated with exercise physiology, nutrition, flexibility, muscular strength and endurance will be covered.

P E 16A **Beginning Golf** **1/2 Unit**
P E 16AX **1 Unit**

(See general education pages for the requirement this course meets.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.
(Any combination of Physical Education 16A, 16AX, 16B and 16BX may be taken up to six times for credit for the family of courses.)
An introduction to the discipline of Physical Education through the sport of golf. Includes a global and historical examination of the sport, rules, equipment, facilities, etiquette, safety, and basic fundamentals of beginning golf. Students will develop skills in putting, chipping, pitching, and full swing fundamentals utilizing basic theories of physics. The skills portion of the course will encourage an understanding of how to adapt to the game and conventional techniques to an individual's physical abilities. Students will apply basic exercise physiology, nutrition, flexibility and strength concepts to improve their overall playing level.

P E 16B **Intermediate Golf** **1/2 Unit**
P E 16BX **1 Unit**

(See general education pages for the requirement this course meets.)
Prerequisite: Physical Education 16A or 16AX; or instructor permission.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.
(Any combination of Physical Education 16A, 16AX, 16B and 16BX may be taken up to six times for credit for the family of courses.)
An introduction to the discipline of Physical Education. Includes an historical examination, styles of play and strategies of the sport of men's and women's golf. Students will strive to develop intermediate skills in putting, chipping, pitching, unusual lies and full swing fundamentals utilizing theories of physics. Variations in concepts due to age, gender, and physical conditions will be noted. Exercise physiology, nutrition, flexibility and strength concepts for conditioning will be covered.

P E 19A **Beginning Volleyball** **1/2 Unit**
P E 19AX **1 Unit**

(See general education pages for the requirement this course meets.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.
(Any combination of Physical Education 19A, 19AX, 19B, 19BX, 19C, 19CX and 19T may be taken up to six times for credit for the family of courses.)
An introduction to the discipline of Physical Education through the sport of volleyball. Includes: rules, equipment, facilities, safety, etiquette, basic fundamentals in beginning level volleyball with strategies for team offense and defense, and a brief historical examination of Global contributions by the men and women who changed the game of volleyball. Students will develop passing, hitting, blocking, and serving techniques utilizing fundamental theories of physics. The skills portion of the course will encourage an understanding of how to adapt the game and conventional techniques to an individual's physical abilities. Students will understand and apply basic exercise physiology, nutrition, flexibility, and strength concepts to improve their physical condition in order to play at a more advanced level.

P E 19B **Intermediate Volleyball** **1/2 Unit**
P E 19BX **1 Unit**

(See general education pages for the requirement this course meets.)
Prerequisite: Physical Education 19A or 19AX; or consent of instructor.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.
(Any combination of Physical Education 19A, 19AX, 19B, 19BX, 19C, 19CX and 19T may be taken up to six times for credit for the family of courses.)
An introduction to the discipline of Physical Education through the sport of volleyball. Includes a global and historical examination of the sport, rules, equipment, facilities, etiquette, safety, and fundamentals of volleyball. Students will develop their volleyball skills and improve upon basic team play strategies. Students will apply basic exercise physiology, nutrition, flexibility and strength concepts to improve their overall playing level.

P E 19C Advanced Volleyball 1/2 Unit
P E 19CX 1 Unit

(See general education pages for the requirement this course meets.)
Prerequisite: Physical Education 19B or 19BX; or consent of instructor.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 19A, 19AX, 19B, 19BX, 19C, 19CX and 19T may be taken up to six times for credit for the family of courses.)

An introduction to the discipline of Physical Education through the sport of volleyball. Includes a global and historical examination of the sport, rules, equipment, facilities, etiquette, safety, and fundamentals of advanced volleyball. Students will develop their volleyball skills and improve upon team play strategies. Students will apply basic exercise physiology, nutrition, flexibility and strength concepts to improve their overall playing level.

P E 19T Tournament Volleyball 1 Unit

(See general education pages for the requirement this course meets.)
Prerequisite: Physical Education 19C or 19CX; or consent of instructor.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 Three hours laboratory.

(Any combination of Physical Education 19A, 19AX, 19B, 19BX, 19C, 19CX and 19T may be taken up to six times for credit for the family of courses.)

An introduction to the discipline of Physical Education through the sport of volleyball. Includes a global and historical examination of the sport, rules, equipment, facilities, etiquette, safety, and fundamentals of advanced volleyball through tournament play. Students will improve upon team play strategies. The primary purpose of this course is to promote educational and organized competitive playing opportunities for males and females. Students will apply exercise physiology, nutrition, flexibility and strength concepts for an advanced level of play.

P E 20A Beginning Archery 1/2 Unit
P E 20AX 1 Unit

(See general education pages for the requirement this course meets.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 20A, 20AX, 20B and 20BX may be taken up to six times for credit for the family of courses.)

An introduction to the discipline of physical education through archery. Includes an historical and global examination of the sport, rules, etiquette, equipment, facilities, and beginning archery skills along with theories of physics relating to arrow flight and adaptations of the sport to individual physical abilities. Principles of fitness and nutrition as they relate to archery will be covered.

P E 20B Intermediate Archery 1/2 Unit
P E 20BX 1 Unit

(See general education pages for the requirement this course meets.)
Prerequisite: Physical Education 20A or 20AX.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 20A, 20AX, 20B and 20BX may be taken up to six times for credit for the family of courses.)

An introduction to the discipline of physical education through archery. Includes an historical and global examination of the sport, rules, etiquette, equipment, facilities, and intermediate archery skills along with theories of physics relating to arrow flight and adaptations of the sport to individual physical abilities. Principles of fitness and nutrition as they relate to archery will be covered.

P E 21A Beginning Tennis 1/2 Unit
P E 21AX 1 Unit

(See general education pages for the requirement this course meets.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 21A, 21AX, 21B, 21BX, 21C, 21CX, 21D and 21DX may be taken up to six times for credit for the family of courses.)

An introduction to the discipline of Physical Education through the sport of Tennis. Basic ground-strokes, serve and footwork as well as basic single's and double's strategies will be covered. Includes a brief historical examination of the sport, rules, equipment, facilities and etiquette. Students will strive to understand and apply basic exercise physiology, nutrition, flexibility and strength concepts to improve their physical condition in order to play at a more advanced level and to adapt the game to their individual physical ability, age, and gender.

P E 21B Advanced Beginning Tennis 1/2 Unit
P E 21BX 1 Unit

(See general education pages for the requirement this course meets.)
Prerequisite: Physical Education 21A or 21AX; or equivalent skills.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 21A, 21AX, 21B, 21BX, 21C, 21CX, 21D and 21DX may be taken up to six times for credit for the family of courses.)

A continuing introduction to the rules, equipment, facilities, etiquette, and basic strokes - volley, lob and overhead and with further development of the forehand, backhand, serve. Instructors will emphasize conventional skill development, but also encourage adaptations based on physical ability, age, strength, gender and/or genetics. A brief historical examination of how the game of tennis has changed due to the influence of individual men, women, and children, of various countries, and their styles of play or strategies. Students will review and apply basic exercise physiology, nutrition, flexibility and strength concepts to improve their physical condition in order to play tennis at a more advanced level.

P E 21C Intermediate Tennis 1/2 Unit
P E 21CX 1 Unit

(See general education pages for the requirement this course meets.)

Prerequisite: Physical Education 21B or 21BX; or equivalent skills.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 21A, 21AX, 21B, 21BX, 21C, 21CX, 21D and 21DX may be taken up to six times for credit for the family of courses.)

Development of consistency, accuracy and control for forehand, backhand ground-strokes, serve, volley, lob and overhead skills utilizing fundamental theories of physics. Introducing elements of changing the dynamics of the game with spins and drop shots or by approaching the net; basic singles and doubles strategies. A brief historical examination of how the game of tennis has changed due to the influence of individual men, women, and children, of various countries, and their styles of play or strategies. Students will review and apply basic exercise physiology, nutrition, flexibility and strength concepts to improve their physical condition in order to play tennis at a more advanced level.

P E 21D Advanced Tennis 1/2 Unit
P E 21DX 1 Unit

(See general education pages for the requirement this course meets.)

Prerequisite: Physical Education 21C or 21CX, or equivalent skills based on instructors evaluation.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 21A, 21AX, 21B, 21BX, 21C, 21CX, 21D and 21DX may be taken up to six times for credit for the family of courses.)

Further examination of Physical Education through tennis. Basic exercise physiology, nutrition, fundamentals of strength development and flexibility relative to playing at an advanced level will be included. The course will encourage an understanding of how to adapt game strategies and conventional techniques to one's needs and abilities based on age, gender and environmental conditions, personal strengths and weaknesses.

P E 21E Competitive Tennis 2 1/2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Experience in tournament or interscholastic competition or appropriate skill level with consent of instructor.

Eight hours laboratory.

(May be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the study of Tennis. Includes a brief historical examination of how the game of tennis has changed due to the influence of individual men, women, and children, of various countries, and their styles of play or strategies. Development of consistency, accuracy and ground strokes, serve, volley, footwork, lob and overhead skills within a competitive situation will be emphasized. Introducing elements of changing the dynamics of the game with spins and drop shots or by approaching the net; advanced singles and doubles strategies. Students will review and apply basic exercise physiology, nutrition, flexibility, and strength concepts to improve their physical condition in order to play tennis at a competitive level.

P E 22 Body Awareness and Conditioning for Dancers 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Dance 22. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 22 and Physical Education 22 may be taken up to six times for credit as long as the topics/projects are different each time.)

Principles of dance and practice of body awareness focusing on center, floor and barre work derived from ballet, contemporary dance, and other psycho-physical disciplines. Topics may include, but are not limited to, body alignment and centering, concentration and relaxation, development of the kinesthetic sense, and exploration of the body/mind connection.

P E 22K Theory and Technique of Ballet I 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Dance 22 or Physical Education 22.

(Also listed as Dance 22K. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 22K and 22L, and Physical Education 22K and 22L may be taken up to six times for credit for the family of courses.)

Introduction to the discipline and creative art of classical ballet, including the development of elementary movement techniques, a working ballet vocabulary, exposure to great works and artists from a global perspective, theory and practice of barre and center floor exercises.

P E 22L Theory and Technique of Ballet II 2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Dance 22K or Physical Education 22K.

(Also listed as Dance 22L. Student may enroll in either department, but not both, for credit.)

Four hours lecture-laboratory.

(Any combination of Dance 22K and 22L, and Physical Education 22K and 22L may be taken up to six times for credit for the family of courses.)

Principles and practice of the discipline and creative art of classical ballet, combining: traditional techniques of Russian, French, and Italian schools; barre and center floor work emphasizing alignment/centering, motion through space, and the acquisition of an intermediate working ballet vocabulary.

P E 23A Theory and Technique of Contemporary (Modern) Dance I 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Dance 23A. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 23A and 23B, and Physical Education 23A and 23B may be taken up to six times for credit for the family of courses.)

Introduction to the discipline and creative art of contemporary dance. Student will be exposed to a basic movement theory, technique and repertoire from global artists.

P E 23B Theory and Technique of Contemporary (Modern) Dance II 2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Dance 23A or Physical Education 23A.

(Also listed as Dance 23B. Student may enroll in either department, but not both, for credit.)

Four hours lecture-laboratory.

(Any combination of Dance 23A and 23B, and Physical Education 23A and 23B may be taken up to six times for credit for the family of courses.)

The discipline and creative art of contemporary dance focusing on practice, theory, technique, and movement explorations in time and space, developing a working intermediate contemporary dance vocabulary.

P E 23H Dance Composition 2 Units

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or Language Arts 261, 262 and 263.

(Also listed as Dance 23H. Student may enroll in either department, but not both, for credit.)

Four hours lecture-laboratory.

(Any combination of Dance 23H and Physical Education 23H may be taken up to two times for credit.)

Introduction to the fundamental elements and techniques of individual and group dance composition.

P E 23L Theory and Technique of Hip-Hop I (Popular American Dance) 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Dance 23L. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 23L and 23M, and Physical Education 23L and 23M may be taken up to six times for credit for the family of courses.)

An Introduction to the discipline of creative arts through hip-hop dance with an integrated fitness approach that focuses on developing the stabilization muscles of the center of the body. Concentration will be on muscles of the torso, back, hips, inner and outer thighs, chest and abdominals will be used in conjunction with breathing, posture, and muscle awareness. Exposure to great works and artists of the field. Development of a working hip-hop dance vocabulary. Theory and practice of basic technique.

P E 23M Theory and Technique of Hip Hop II (Popular American Dance II) 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Dance 23M. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 23L and 23M, and Physical Education 23L and 23M may be taken up to six times for credit for the family of courses.)

Explorations in the discipline of creative arts through the theory and practice of hip-hop dance intermediate/advanced level technique, with an integrated fitness approach that focuses on developing the stabilization muscles of the center of the body. Concentration will be on muscles of the torso, back, hips, inner and outer thighs, chest and abdominals will be used in conjunction with breathing, posture, and muscle awareness. Exposure to great works and multicultural artists of the field. Development of a working hip-hop vocabulary and performance skills.

P E 24A Theory and Technique of Social Dance I 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Dance 24A. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 24A, 24B and 24C, and Physical Education 24A, 24B and 24C may be taken up to six times for credit for the family of courses.)

Introduction to the discipline and creative art of social dance. Exposure to basic forms of social dance in a ballroom context. Developing a working vocabulary of traditional social dance movements and an understanding of the cultural and historical contexts that produced the specific dance styles.

P E 24B Theory and Technique of Social Dance II 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Dance 24B. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 24A, 24B and 24C, and Physical Education 24A, 24B and 24C may be taken up to six times for credit for the family of courses.)

Introduction to the discipline and creative art of social dance, part two. Exposure to the basic forms of social dance in a ballroom context. Developing a working vocabulary of traditional social dance movements and an understanding of the cultural and historical contexts that produced the specific dance.

P E 24C Theory and Technique of Social Dance III 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Dance 24A or 24B, or Physical Education 24A or 24B.

(Also listed as Dance 24C. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 24A, 24B and 24C, and Physical Education 24A, 24B and 24C may be taken up to six times for credit for the family of courses.)

The art of social dance at the advanced level. Expanded exposure to the basic forms of social dance in a ballroom context. Developing a working vocabulary of traditional social dance movements and an understanding of the cultural and historical contexts that produced the specific dance styles.

P E 25A Theory and Technique of Salsa Dance I 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Dance 25A. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 25A and Physical Education 25A may be taken up to three times for credit as long as the topics are different each time.)

Introduction to the discipline and creative art of salsa dance. Exposure to basic forms of social dance in a salsa dance context. Developing a working vocabulary of traditional salsa dance movements and an understanding of the cultural and historical contexts that produced the specific dance styles.

P E 26A Novice Swimming 1/2 Unit
P E 26AX 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 26A, 26AX, 26B, 26BX, 26C, 26CX, 26D and 26DX may be taken up to six times for credit for the family of courses.)

Swimming skills and techniques for the non-swimmer. Global and historical development of swimming as a fitness activity, novice stroke skills, survival methods, overcoming fear of water, and safety will be covered. American Red Cross stroke standards will be followed but adaptations will be allowed based on physical ability, age, strength and gender. Students will review basic exercise physiology and nutrition appropriate to swimming.

P E 26B Beginning Swimming 1/2 Unit
P E 26BX 1 Unit

(See general education pages for the requirement this course meets.)

Prerequisite: Physical Education 26A or 26AX; or consent of instructor.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 26A, 26AX, 26B, 26BX, 26C, 26CX, 26D and 26DX may be taken up to six times for credit for the family of courses.)

Swimming skills and techniques for the beginning swimmer. Global and historical development of swimming as a fitness activity, beginning stroke skills, survival methods, diving from the side of the pool, and deep water swimming will be covered. American Red Cross stroke standards will be followed but adaptations will be allowed based on physical ability, age, strength and gender. Students will review basic exercise physiology and nutrition appropriate to swimming.

P E 26C Intermediate Swimming 1/2 Unit
P E 26CX 1 Unit

(See general education pages for the requirement this course meets.)

Prerequisite: Physical Education 26B or 26BX; or consent of instructor.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 26A, 26AX, 26B, 26BX, 26C, 26CX, 26D and 26DX may be taken up to six times for credit for the family of courses.)

Swimming skills and techniques for the intermediate swimmer. Global and historical development of swimming as a fitness activity, intermediate stroke skills, springboard diving, turns, and water safety will be covered. American Red Cross stroke standards will be followed but adaptations will be allowed based on physical ability, age, strength and gender. Students will review basic exercise physiology and nutrition appropriate to swimming.

P E 26D Advanced Swimming 1/2 Unit
P E 26DX 1 Unit

(See general education pages for the requirement this course meets.)

Prerequisite: Physical Education 26C or 26CX; or consent of instructor.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 26A, 26AX, 26B, 26BX, 26C, 26CX, 26D and 26DX may be taken up to six times for credit for the family of courses.)

Swimming skills and techniques for the advanced swimmer. Global and historical development of swimming as a fitness activity, advanced stroke skills, endurance swimming, racing turns and starts, and springboard diving will be covered. American Red Cross stroke standards will be followed but adaptations will be allowed based on physical ability, age, strength and gender. Students will review basic exercise physiology and nutrition appropriate to swimming.

P E 28A Lifeguard Training 4 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Physical Education 26B or 26BX; and pass the Red Cross screening test.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two and one-half hours lecture, four and one-half hours laboratory.

(May be taken up to six times for credit.)

An introduction to Physical Education through a course designed for lifeguard training and certification. It includes techniques and skills for rescue and personal safety. The instructor will encourage skills adaptations based on physical ability, age, strength, gender and/or genetics. The following certificates are available upon completion: American Red Cross Lifeguard Training; First Aid; Cardiopulmonary Resuscitation and Automated External Defibrillation for the Professional Rescuer; Waterfront Lifeguard; Basic Water Rescue; Shallow Water Attendant; Blood-borne Pathogens; Preventing Disease Transmission; Administering Emergency Oxygen; and Epinephrine Auto-Injector.

P E 28G Water Safety Instructor 4 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Physical Education 26C or ability to swim basic strokes at Red Cross Level 4.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture, three hours laboratory.

(May be taken up to six times for credit.)

A course for Red Cross certification of swimming and diving instructors. Emphasis on the biomechanics of strokes, teaching progressions, and feedback techniques. Includes the American Red Cross Fundamentals of Instructor Training Certification.

P E 30 Introduction to Physical Education/Kinesiology 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

A introduction to the discipline of physical education/kinesiology. The student will study career options, career choice, required preparation and training for occupations in teaching, coaching, physical therapy, sports medicine and other professions stemming from a degree in physical education/kinesiology. Course will include an in-depth overview of past, present, and future foundations, principles, and philosophies for students seeking major areas of study. Course will also focus on career options with an understanding of intercultural and gender (Title IX) relating to the profession.

P E 32B Women's Badminton Techniques 2 Units

(Formerly Physical Education 92B.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Physical Education 13T.

Six hours laboratory.

(May be taken up to six times for credit.)

An introduction to the discipline of physical education through the sport of badminton. Emphasis is on developing the mental, physical, and tactical aspects of badminton play necessary to compete at the tournament level. Includes a global examination of the sport, rules, equipment, facilities and etiquette. Basic physiology, nutrition, flexibility, strength and endurance techniques relative to badminton will be discussed.

P E 32F Defensive Baseball Techniques 2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours laboratory.

(May be taken up to six times for credit.)

An introduction to the discipline of physical education through defensive baseball techniques. Includes a global and historical examination of the skills and techniques of advanced defensive baseball, team interaction, and baseball theory. Through the study of film and use of playbooks the student will learn the various segments of defensive play. Exercise physiology, nutrition, flexibility and strength concepts for conditioning will be covered.

P E 32G Offensive Baseball Techniques 2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours laboratory.

(May be taken up to six times for credit.)

An introduction to the discipline of physical education through offensive baseball techniques. Includes a global and historical examination of the skills and techniques of advanced offensive baseball and the changes that have influenced the modern game. Includes analysis of movement, team interaction, and baseball theory. Through the study of film the student will learn the various segments of offensive play. Exercise physiology, nutrition, flexibility and strength concepts for conditioning will be covered.

P E 32H Offensive Football Techniques 2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours laboratory.

(May be taken up to six times for credit.)

An introduction to the discipline of Physical Education through Offensive Football Techniques. Includes a global and historical examination of the skills and techniques of advanced offensive football and the changes that have influenced the modern game. Through the study of film and use of play books the student will learn the various segments of offensive play. Exercise physiology, nutrition, flexibility and strength concepts for conditioning will be covered.

P E 32I Defensive Football Techniques 2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours laboratory.

(May be taken up to six times for credit.)

An introduction to the discipline of Physical Education through defensive football techniques. Includes a global and historical examination of the skills and techniques of advanced defensive football and the changes that have influenced the modern game. Through the study of film, use of playbooks and team work the student will learn the various segments of defensive play. Exercise physiology, nutrition, flexibility and strength concepts for conditioning will be covered.

P E 32J Water Polo Techniques 2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours laboratory.

(May be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the sport of water polo. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Through the intercollegiate competitive experience students will improve their individual water polo skills, increase their ability to employ advanced training and increase their knowledge of exercise physiology, exercise nutrition, and kinesiological concepts. Competitive water polo experience preferred at the high school, club or collegiate levels.

P E 32K Basketball Techniques 2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours laboratory.

(May be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the sport of basketball. Includes a global and historical examination of the sport, rules, equipment, facilities and etiquette. Skills and techniques of advanced basketball play. Includes analysis of basketball movement, team interaction and basketball theory. Students will gain an understanding of exercise physiology, nutrition, development of muscular strength and endurance and flexibility will be enhanced.

P E 32L Volleyball Techniques 2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours laboratory.

(May be taken up to six times for credit.)

Further examination of the discipline of Physical Education through the sport of Volleyball. A deeper look into the sport at an advanced level, rules, equipment, facilities, etiquette, safety, and fundamentals of advanced volleyball through intercollegiate play. Students will improve upon team play strategies. Students will apply basic exercise physiology, nutrition, flexibility and strength concepts to improve their overall playing level. Skills and techniques of advanced volleyball play. Analysis of movement, team interaction, and volleyball theory.

P E 32M Soccer Techniques 2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive soccer experience at the high school, club or collegiate levels, or approval of the instructor.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours laboratory.

(May be taken up to six times for credit.)

Further examination of the discipline of Physical Education through the sport of soccer. Includes rules, equipment, facilities, etiquette and preparation for a competitive level of play. This course is designed to enhance skills and strategies of intermediate or advanced soccer players. Strategies and tactics of the game will be discussed and performed. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to soccer will be discussed.

P E 32N Track and Field Techniques 2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours laboratory.

(May be taken up to six times for credit.)

An introduction to the discipline of physical education through the sport of track and field. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Students will improve their individual track and field skills, increase their ability to employ advanced strategies and increase their knowledge of exercise physiology, exercise nutrition, kinesiological concepts underlying the development of force, power and body awareness.

P E 32P Techniques of Competitive Swimming 2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive swimming skills.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours laboratory.

(May be taken up to six times for credit.)

An introduction to the discipline of physical education through swimming and diving. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Through the competitive class experience students will improve their individual swimming skills, increase their ability to employ advanced training and increase their knowledge of exercise physiology, exercise nutrition, kinesiological concepts underlying the development of force, power and biomechanics.

P E 32S Women's Soccer Techniques 2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive soccer experience at the high school, club, collegiate, intermediate and advanced levels or approval of instructor.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours laboratory.

(May be taken up to six times for credit.)

Further examination of the discipline of Physical Education through the sport of soccer. This course is designed to enhance skills and strategies of intermediate to advanced soccer players. Includes rules, equipment, facilities, etiquette and preparation for performance on a competitive level. Strategies and tactics of the game will be discussed and performed. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to soccer will be discussed.

P E 32T Tennis Techniques 2 Units

(Formerly Physical Education 92T.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours laboratory.

(May be taken up to six times for credit.)

An introduction to the discipline of physical education through the study of tennis. Includes a brief historical examination of how the game of tennis has changed due to the influence of individual men, women, and children, of various countries, and their styles of play or strategies. Development of consistency, accuracy and ground strokes, serve, volley, footwork, lob and overhead skills within a competitive situation will be emphasized. Introducing elements of changing the dynamics of the game with spins and drop shots or by approaching the net; advanced singles and doubles strategies. Students will review and apply basic exercise physiology, nutrition, flexibility, and strength concepts to improve their physical condition in order to play tennis at a competitive level.

P E 32W Softball Techniques 2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours laboratory.

(May be taken up to six times for credit.)

An introduction to the discipline of Physical Education through softball techniques. Includes a global and historical examination of the skills and techniques of advanced softball and the changes that have influenced the modern game. Includes analysis of movement, team interaction, and softball theory. Through team practice and scrimmages the student will learn the various segments of offensive and defensive play. Exercise physiology, nutrition, flexibility and strength concepts for conditioning will be covered.

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P E 33A Soccer 1/2 Unit
P E 33AX 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 33A, 33AX, 33I and 33IX may be taken up to six times for credit for the family of courses.)

An introductory course to enhance skills used in the game of soccer, including a global perspective and the contributions of both male and female soccer experts and players. Emphasis will be placed upon the four major pillars of the game: technical ability, tactical understanding, physical fitness, and the mental approach necessary to compete successfully in match play. Strategies and tactics of the game will also be discussed and performed. There will be an introduction to the laws of the game, equipment, fair play, flexibility, nutrition, and the nuances of the game. Use of the Internet and other media sources will be encouraged to further understand the world's most popular game.

P E 33I Indoor Soccer 1/2 Unit
P E 33IX 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 33A, 33AX, 33I and 33IX may be taken up to six times for credit for the family of courses.)

An introductory course to enhance skills used in the game of Indoor Soccer, including a global perspective and the contributions of both male and female soccer experts and players. Emphasis will be on the four major pillars of the game: technical ability, tactical understanding, physical fitness, and the mental approach necessary to compete successfully in match play. Strategies and tactics of the game will also be discussed and performed. There will be an introduction to the laws of the game, equipment, fair play, flexibility, nutrition, and the nuances of the game. Use of the Internet and other media sources will be encouraged to further understand Indoor Soccer.

P E 35 Care and Prevention of Athletic Injuries 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273 ; Physical Education 54 or 85M (or Biology 40A and 40B).

Three hours lecture, three hours laboratory.

Treatment and preventative procedures in sports medicine. Emphasis on anatomical basis for recognition and evaluation of sports related injuries. Treatment focuses on immediate first aid, preventative techniques, and injury stress test and rehabilitation.

P E 37A Theory and Technique of Jazz Dance I 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Dance 37A. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 37A and 37B, and Physical Education 37A and 37B may be taken up to six times for credit as long as the topics are different each time.)

Introduction to the discipline and creative art of jazz dance. Body conditioning, exposure to the history of major international influences, artists, and works. Development of a working vocabulary; and practice of basic techniques.

P E 37B Theory and Technique of Jazz Dance II 2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Dance 37A or Physical Education 37A.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Dance 37B. Student may enroll in either department, but not both, for credit.)

Four hours lecture-laboratory.

(Any combination of Dance 37A and 37B, and Physical Education 37A and 37B may be taken up to six times for credit as long as the topics are different each time.)

Exploring elements of time, space, shape and motion as related to jazz dance. Body conditioning, exposure to major international influences, artists, and works. The development of a working vocabulary in significant jazz dance styles; and practice of intermediate level techniques.

P E 38W Intercollegiate Women's Badminton 3 Units
 (Formerly Physical Education 90.)

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in badminton, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Nine hours laboratory.

(Any combination of Physical Education 38W and 98A may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the sport of badminton. Includes a global examination of the sport, rules, equipment, facilities and etiquette. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in matches. Discussion of the rules of the game, equipment technology and fair play will be incorporated into the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to badminton will be discussed.

P E 39M Intercollegiate Men's Soccer 3 Units
 (Formerly Physical Education 39.)

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in soccer, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Nine hours laboratory.

(Any combination of Physical Education 39M and 98B may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the sport of soccer. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Emphasis placed upon the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in match play. Discussion of strategic information from scouting reports with application to game preparation and management. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to soccer will be discussed.

P E 39W Intercollegiate Women's Soccer 3 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in soccer, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Nine hours laboratory.

(Any combination of Physical Education 39W and 98C may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the sport of soccer. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Emphasis placed upon the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in match play. Discussion of the laws of the game, equipment technology, and fair play will be incorporated into the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to soccer will be discussed.

P E 40 Intercollegiate Football 3 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in football, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Nine hours laboratory.

(Any combination of Physical Education 40 and 98D may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through intercollegiate football. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in games. Discussion of the rules of the game, equipment technology and fair play will be incorporated into the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to football will be discussed.

P E 41 Intercollegiate Water Polo 3 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in water polo, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Nine hours laboratory.

(Any combination of Physical Education 41 and 98E may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through water polo. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in games. Discussion of the rules of the game, equipment technology and fair play will be incorporated into the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to water polo will be discussed.

P E 42W Intercollegiate Women's Volleyball 3 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in volleyball, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Nine hours laboratory.

(Any combination of Physical Education 42W and 98F may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the sport of volleyball. Includes a global and historical examination of the sport, rules, equipment, facilities, etiquette, and safety. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in games. Discussion of the rules of the game, equipment technology and fair play will be incorporated into the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to basketball will be discussed.

P E 43 Intercollegiate Cross Country (Men and Women) 3 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in cross country, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Nine hours laboratory.

(Any combination of Physical Education 43 and 98G may be taken up to six times for credit.)

An introduction to the discipline of physical education through the sport of cross country. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Through the intercollegiate competitive experience students will improve their individual running skills, increase their ability to employ advanced strategies and increase their knowledge of exercise physiology, exercise nutrition, kinesiological concepts underlying the development of endurance, strength development and body awareness.

P E 44M Intercollegiate Men's Basketball 3 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in basketball, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Nine hours laboratory.

(Any combination of Physical Education 44M and 98H may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the sport of basketball. Includes a global and historical examination of the sport, rules, equipment, facilities and etiquette. Emphasis is placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in games. Discussion of the rules of the game, equipment technology and fair play will be incorporated in the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to basketball will be discussed.

P E 44W Intercollegiate Women's Basketball 3 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in basketball, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Nine hours laboratory.

(Any combination of Physical Education 44W and 98J may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the sport of basketball. Includes a global and historical examination of the sport, rules, equipment, facilities and etiquette. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in games. Discussion of the rules of the game, equipment technology and fair play will be incorporated into the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to basketball will be discussed.

P E 45 Intercollegiate Swimming and Diving (Men and Women) 3 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in swimming and diving, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Nine hours laboratory.

(Any combination of Physical Education 45 and 98K may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through swimming and diving. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Through the intercollegiate competitive experience students will improve their individual swimming and diving skills, increase their ability to employ advanced training and increase their knowledge of exercise physiology, exercise nutrition, kinesiological concepts underlying the development of force, power and biomechanics.

P E 46 Intercollegiate Track and Field (Men and Women) 3 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in track and field, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Nine hours laboratory.

(Any combination of Physical Education 46 and 98L may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the sport of track and field. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Through the intercollegiate competitive experience students will improve their individual track and field skills, increase their ability to employ advanced strategies and increase their knowledge of exercise physiology, exercise nutrition, kinesiological concepts underlying the development of force, power and body awareness.

P E 47M Intercollegiate Baseball 3 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in baseball, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Nine hours laboratory.

(Any combination of Physical Education 47M and 98M may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through intercollegiate baseball. Includes a global and historical examination of the skills of competitive baseball and the changes that have influenced the modern game. Includes analysis of offensive and defensive play, team interaction, and baseball theory. Through the intercollegiate competitive experience, student/athletes will improve their individual skills, increase their ability to employ advanced strategies and increase their knowledge of team play. Exercise physiology, nutrition, flexibility and strength concepts for conditioning will be covered.

P E 47W Intercollegiate Softball 3 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in softball, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Nine hours laboratory.

(Any combination of Physical Education 47W and 98N may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through intercollegiate softball. Includes a global and historical examination of the skills and techniques of advanced offensive softball and the changes that have influenced the modern game. Analysis of movement, team interaction, and softball theory will be discussed. Through game preparation and repetition throughout the season the student will learn the various segments of intercollegiate play. Exercise physiology, nutrition, flexibility and strength concepts for conditioning will be covered.

P E 48M Intercollegiate Men's Tennis 3 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in tennis, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Nine hours laboratory.

(Any combination of Physical Education 48M and 98P may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through tennis. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in matches. Through the intercollegiate competitive experience students will improve their individual tennis skills, increase their ability to employ advanced strategies and increase their knowledge of exercise physiology, exercise nutrition, kinesiological concepts underlying the development of force, power and accuracy.

P E 48W Intercollegiate Women's Tennis 3 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in tennis, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Nine hours laboratory.

(Any combination of Physical Education 48W and 98Q may be taken up to six times for credit.)

An introduction to the discipline of physical education through tennis. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in games. Through the intercollegiate competitive experience students will improve their individual tennis skills, increase their ability to employ advanced strategies and increase their knowledge of exercise physiology, exercise nutrition, concepts underlying the development of force, power and accuracy.

P E 49A Topics in Theory and Technique of World Dance 1 Unit

(Formerly Physical Education 50A.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

(Also listed as Dance 49A. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory.

(Any combination of Dance 49A and Physical Education 49A may be taken up to six times as long as the topics in specific dances and cultures are different each time.)

Introduction to the art of world dance. Course will provide exposure to forms of dance from an international perspective. Students will learn to perform the basic skills of classical, traditional, and folk dances from various world cultures, while developing a working vocabulary of traditional dance movements. Students will attempt to gain an understanding and appreciation of the cultural and historical contexts that produced the specific dance forms.

P E 51 Health and Fitness 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Health 51. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Introduction to the disciplines of Physical Education and Health through fitness, wellness and lifestyle management. Concepts of wellness from an interdisciplinary and global perspective. Practices and beliefs that contribute to fitness and healthful living. Students will be exposed to past and current theories of health and fitness with emphasis on how lifestyle, wellness, and personal fitness are affected by genetics, gender, and age. Each student will assess their own cardiovascular capacity, muscular strength and endurance, flexibility, body composition, and diet during the class.

P E 53 Physical Stress Management 2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours lecture.

An introduction to Physical Education through the natural techniques that effectively relieve stress related physical problems. Each student will develop and implement a personal stress reduction program. Students will be exposed to information on how lifestyle, gender, age, personality and occupation effects stress and the ability to successfully cope with it.

P E 54 Introduction to Massage 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture, three hours laboratory.

Introduction to the discipline of Physical Education through the field of massage therapy. Includes theory, practical experience, methods, procedures, and contraindications. Students will be exposed to the rich international history of massage and to a variety of techniques from around the world including the contributions of men and women to the field.

P E 54A Intermediate Massage 3 Units

Prerequisite: Physical Education 54 or technical proficiency suitable to the course level or admission by instructor approval.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours lecture, three hours laboratory.

Further study and practice utilizing the principles of massage therapy.

P E 54B Sports Massage 3 Units

Prerequisite: Physical Education 54 or technical proficiency suitable to the course level.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours lecture, three hours laboratory.

Massage techniques and evaluation procedures for creating a massage specific to the athlete's condition and sport. Study of the muscles and movements involved in sports activities, with an understanding of common types and areas of injuries related to specific sports.

P E 54C Advanced Massage Skills 4 Units

Prerequisite: Physical Education 54B (may be taken concurrently); or technical proficiency suitable to the course level.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture, three hours laboratory.

Methods and procedures of advanced soft tissue therapy and related topics including: clinical syndromes and pathologies, lymphatic system massage, various pain patterns, Travell trigger point release, deep tissue massage, bio-mechanical relationships, appropriate primary care referral, and the physiological aspects of tissue damage and repair.

P E 54D Clinical Practicum in Massage Therapy 3 Units

Prerequisite: Physical Education 54C or technical proficiency suitable to course level.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

One hour lecture, six hours laboratory.

Clinical practice in massage therapy including: methods and procedures for office management, appointment scheduling, business development and financial record keeping; professional ethics training, client interviews, treatment design, massage clinical treatments and SOAP note charting experience.

P E 54E Table Shiatsu 4 Units

Prerequisite: Physical Education 54, 54A, 54B and 54C; or technical proficiency suitable to the course level.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours lecture, three hours laboratory.

Theory, methods, procedures and practice of Shiatsu, a Japanese method of hands on healing traditionally practiced on the floor, but adapted in this class to be performed on massage tables.

P E 54F Introduction to Chair Massage 3 Units

Prerequisite: Physical Education 54D and 54E; or technical proficiency suitable to the course level.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours lecture, three hours laboratory.

An introduction to the practice of chair massage. Includes a global and historical examination of chair massage, with an exploration of a variety of techniques and modalities used throughout the world. The theory behind chair massage will be covered. Students will be given practical experiences, and critiques will be used to correct posture, body mechanics, stroke application and stroke sequence.

P E 54T Internship in Massage Therapy 1 Unit**P E 54U 2 Units****P E 54V 3 Units**

Prerequisite: Physical Education 54A or technical proficiency suitable to the course level.

Three hours laboratory for each unit of credit.

(Any combination of Physical Education 54T, 54U and 54V may be taken up to six times for credit.)

Internships provide opportunities for massage therapy students to reinforce the massage training gained in the classroom setting. With instructor approval students shall either assume the role of Teacher's Assistant or gain additional hands-on experience in the field under the supervision of an instructor, athletic trainer, or coach.

P E 70A Orientation to Lifetime Fitness 2 Units

(See general education pages for the requirement this course meets.)

Corequisite: Physical Education 70A students must also enroll in Physical Education 71, Physical Education-Adapted 1, 1X, 2, 2X, 3, 3X, 4, 4X, 5, or 5X.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours lecture.

Introduction to fitness, wellness and lifestyle management. Students will examine current theories of health and fitness with emphasis on how wellness and personal fitness are affected by genetics, gender, and age. Each student will perform pre-assessment and post-assessment tests of their own cardiovascular capacity, muscular strength and endurance, flexibility, and body composition. Lifestyle changes will be emphasized and behavior change tools that promote healthy choices will be discussed. Instruction on proper exercise techniques will be demonstrated.

P E 71 Lifetime Wellness and Fitness Center Laboratory 1 Unit

(See general education pages for the requirement this course meets.)

Prerequisite: Concurrent enrollment in, or successful completion of, Physical Education 51 or 70A; or Health 51.

Three hours laboratory.

(May be taken up to six times for credit.)

Laboratory designed to improve student's cardiorespiratory fitness, muscular strength and endurance, flexibility and body composition. Strength and muscular endurance will be developed using Magnum weight equipment. Cardiorespiratory programs will be run on treadmills, cycles, stair steppers, and elliptical trainers.

P E 77 Special Projects in Physical Education 1/2 Unit**P E 77X 1 Unit****P E 77Y 1 1/2 Units**

(Formerly Physical Education 29, 29X and 29Y respectively.)

Prerequisite: Consent of instructor and division dean.

Three hours laboratory for each unit of credit.

(Any combination of Physical Education 77, 77X and 77Y may be taken up to six times for credit as long as the projects are different each time.)

Individual research in Physical Education. Specific projects determined on consultation with the instructor. Outside reading and written report required. These projects are undertakings that are not in the regular physical education curriculum and require the approval of the division dean.

P E 78L Special Topics in Dance 1/2 Unit**P E 78M 1 Unit****P E 78N 2 Units****P E 78P 3 Units****P E 78Q 4 Units****P E 78R 5 Units****P E 78S 6 Units****P E 78T 7 Units****P E 78U 8 Units**

(Formerly Physical Education 25L-U.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; enrollment by audition only.

(Also listed as Dance 78L-U. Student may enroll in either department, but not both, for credit.)

Two hours lecture-laboratory for each unit of credit.

(Any combination of Physical Education 78L-U and Dance 78L-U may be taken up to six times for credit, not to exceed 18 units, as long as the topics are different each time.)

Projects for groups in special areas of interest relative to but outside of the departmental curriculum.

P E 85 Exercise Science 2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273 ; Biology 10 or 11 or equivalent.

Two hours lecture.

Basic concepts of physiology, nutrition, and exercise physiology for students planning on majoring in Physical Education and/or completing a certificate program in personal trainer, massage therapy, or coaching.

P E 85A Personal Fitness Trainer 2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; completion of/or concurrent enrollment in Physical Education 85.

One and one-half hours lecture, two hours laboratory.

Concepts needed for instruction of individualized strength, flexibility, cardiovascular and functional fitness programs.

P E 85S Fitness Assessment for Personal Trainers 3 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 210 or equivalent; and Physical Education 85.

Two and one-half hours lecture; one and one-half hours laboratory.

Basic concepts of fitness assessment for personal trainers. Includes measurement of cardiovascular fitness and use of the American College of Sports Medicine metabolic equations. The student will understand body composition using calipers and skinfold equations. Measurements of muscular strength, muscular endurance, and flexibility will be covered. Test results will be analyzed and used for exercise prescription.

P E 88A Coaching I: The Foundations of Coaching 2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours lecture.

Introduction and continuing education into the theories, techniques, strategies, and qualifications related to sport and athletic coaching. An in-depth analysis of coaching responsibilities and practical applications associated with youth (Little League, Pop Warner, American Youth Soccer Organization, and YMCA), middle school, high school, community college, and four-year university levels of competition and play. The students will study the issues and requirements associated with possible duties and job responsibilities in relationship to administrative, medical, legal, and practical experiences.

P E 88B Coaching II: The Fundamentals of Fund Raising and Budgeting 2 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours lecture.

Introduction and study of the fundamental strategies and techniques relating to alternative funding, i.e. fund raising, for school athletic programs or extra curricular activities. An in-depth analysis of successful fund raising endeavors with an emphasis on Education Code, District Policy, Legal and Ethical Standards of Operation, conduct, and accounting. Students will take a comprehensive look at the roles and responsibilities of coaches fund raising at all levels of sport competition and organization; youth, elementary and secondary schools, community colleges, college, university, and professional. Emphasis on role of money on programs. An overview of legal and business issues associated with possible coaching income derived from outside sources and fund raising activities. A mandatory review on non profit organizational structure and accountability.

P E 98A Intercollegiate Women's Badminton 1 1/2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in badminton, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four and one-half hours laboratory.

(Any combination of Physical Education 38W and 98A may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the sport of badminton. Includes a global examination of the sport, rules, equipment, facilities and etiquette. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in matches. Discussion of the rules of the game, equipment technology and fair play will be incorporated into the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to badminton will be discussed.

P E 98B Intercollegiate Men's Soccer 1 1/2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in soccer, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four and one-half hours laboratory.

(Any combination of Physical Education 39M and 98B may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the sport of soccer. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Emphasis placed upon the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in match play. Discussion of strategic information from scouting reports with application to game preparation and management. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to soccer will be discussed.

P E 98C Intercollegiate Women's Soccer 1 1/2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in soccer, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four and one-half hours laboratory.

(Any combination of Physical Education 39W and 98C may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the sport of soccer. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Emphasis placed upon the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in match play. Discussion of the laws of the game, equipment technology, and fair play will be incorporated into the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to soccer will be discussed.

P E 98D Intercollegiate Football 1 1/2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in football, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four and one-half hours laboratory.

(Any combination of Physical Education 40 and 98D may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through intercollegiate football. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in games. Discussion of the rules of the game, equipment technology and fair play will be incorporated into the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to football will be discussed.

P E 98E Intercollegiate Water Polo 1 1/2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in water polo, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four and one-half hours laboratory.

(Any combination of Physical Education 41 and 98E may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through water polo. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in games. Discussion of the rules of the game, equipment technology and fair play will be incorporated into the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to water polo will be discussed.

P E 98F Intercollegiate Women's Volleyball 1 1/2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in volleyball, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four and one-half hours laboratory.

(Any combination of Physical Education 42W and 98F may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the sport of volleyball. Includes a global and historical examination of the sport, rules, equipment, facilities, etiquette, and safety. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in games. Discussion of the rules of the game, equipment technology and fair play will be incorporated into the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to basketball will be discussed.

P E 98G Intercollegiate Cross Country (Men and Women) 1 1/2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in cross country, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four and one-half hours laboratory.

(Any combination of Physical Education 43 and 98G may be taken up to six times for credit.)

An introduction to the discipline of physical education through the sport of cross country. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Through the intercollegiate competitive experience students will improve their individual running skills, increase their ability to employ advanced strategies and increase their knowledge of exercise physiology, exercise nutrition, kinesiological concepts underlying the development of endurance, strength development and body awareness.

P E 98H Intercollegiate Men's Basketball 1 1/2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in basketball, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four and one-half hours laboratory.

(Any combination of Physical Education 44M and 98H may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the sport of basketball. Includes a global and historical examination of the sport, rules, equipment, facilities and etiquette. Emphasis is placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in games. Discussion of the rules of the game, equipment technology and fair play will be incorporated into the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to basketball will be discussed.

P E 98J Intercollegiate Women's Basketball 1 1/2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in basketball, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four and one-half hours laboratory.

(Any combination of Physical Education 44W and 98J may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the sport of basketball. Includes a global and historical examination of the sport, rules, equipment, facilities and etiquette. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in games. Discussion of the rules of the game, equipment technology and fair play will be incorporated into the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to basketball will be discussed.

P E 98K Intercollegiate Swimming and Diving (Men and Women) 1 1/2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in swimming and diving, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four and one-half hours laboratory.

(Any combination of Physical Education 45 and 98K may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through swimming and diving. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Through the intercollegiate competitive experience students will improve their individual swimming and diving skills, increase their ability to employ advanced training and increase their knowledge of exercise physiology, exercise nutrition, kinesiological concepts underlying the development of force, power and biomechanics.

P E 98L Intercollegiate Track and Field (Men and Women) 1 1/2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in track and field, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Physical Education 32N.

Four and one-half hours laboratory.

(Any combination of Physical Education 46 and 98L may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the sport of track and field. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Through the intercollegiate competitive experience students will improve their individual track and field skills, increase their ability to employ advanced strategies and increase their knowledge of exercise physiology, exercise nutrition, kinesiological concepts underlying the development of force, power and body awareness.

P E 98M Intercollegiate Baseball 1 1/2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in baseball, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four and one-half hours laboratory.

(Any combination of Physical Education 47M and 98M may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through intercollegiate baseball. Includes a global and historical examination of the skills of competitive baseball and the changes that have influenced the modern game. Includes analysis of offensive and defensive play, team interaction, and baseball theory. Through the intercollegiate competitive experience, student/athletes will improve their individual skills, increase their ability to employ advanced strategies and increase their knowledge of team play. Exercise physiology, nutrition, flexibility and strength concepts for conditioning will be covered.

P E 98N Intercollegiate Softball 1 1/2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in softball, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four and one-half hours laboratory.

(Any combination of Physical Education 47W and 98N may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through intercollegiate softball. Includes a global and historical examination of the skills and techniques of advanced offensive softball and the changes that have influenced the modern game. Analysis of movement, team interaction, and softball theory will be discussed. Through game preparation and repetition throughout the season the student will learn the various segments of intercollegiate play. Exercise physiology, nutrition, flexibility and strength concepts for conditioning will be covered.

P E 98P Intercollegiate Men's Tennis 1 1/2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in tennis, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic

requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four and one-half hours laboratory.

(Any combination of Physical Education 48M and 98P may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through tennis. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in matches. Through the intercollegiate competitive experience students will improve their individual tennis skills, increase their ability to employ advanced strategies and increase their knowledge of exercise physiology, exercise nutrition, kinesiological concepts underlying the development of force, power and accuracy.

P E 98Q Intercollegiate Women's Tennis 1 1/2 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Competitive experience in tennis, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four and one-half hours laboratory.

(Any combination of Physical Education 48W and 98Q may be taken up to six times for credit.)

An introduction to the discipline of physical education through tennis. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in games. Through the intercollegiate competitive experience students will improve their individual tennis skills, increase their ability to employ advanced strategies and increase their knowledge of exercise physiology, exercise nutrition, concepts underlying the development of force, power and accuracy.

P E 99 Orientation to Athletics 1 Unit

Prerequisite: Competitive athletics experience at a high school or club level; medical examination; enrollment in 12 or more units (second year athletes must fulfill academic requirements as per the CCCAA).

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

One hour lecture.

Pass-No Pass (P-NP) course.

An introduction to De Anza College Intercollegiate Athletics. An orientation to the De Anza College Physical Education and Athletics Division programs, policies, services, requirements, transfer, etc. Topics discussed will be eligibility, decorum, team rules, college rules, NCAA rules, CCCAA rules, medical information, insurance, nutrition, alcohol awareness, drug education, sexual responsibility, team work, leadership, time management and study skills. Academic and Athletic success will be the focus.

P E 99L Lacrosse 1/2 Unit
P E 99LX 1 Unit

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Two hours laboratory for the one-half unit course; three hours laboratory for the one unit course.

(Any combination of Physical Education 99L and 99LX may be taken up to six times for credit.)

An introduction to the discipline of Physical Education through the sport of lacrosse. Emphasis is placed upon the rules of the game, the skills and strategies of the sport. Includes a global and historical examination of lacrosse, its equipment, facilities, etiquette and contributions of both male and female experts and players. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to lacrosse will be discussed.

P E 210 Sports Conditioning 0 Units
P E 210W 0 Units
P E 210X 0 Units
P E 210Y 0 Units
P E 210Z 0 Units

(Formerly Physical Education 110, 110W-Z.)

Non-credit course - Does not apply to De Anza Associate degree.

Two hours laboratory for Physical Education 210; three hours laboratory for Physical Education 210W; six hours laboratory for Physical Education 210X; nine hours laboratory for Physical Education 210Y; and twelve hours laboratory for Physical Education 210Z.

(No limit on repeatability for 0 unit courses.)

Conditioning and testing principles for all sports. Measuring strengths and weaknesses of student athlete at De Anza College with emphasis on the athlete's preseason conditioning. Standards will be established for each athlete, plus team norms.

Physical Education/Adapted

Physical Education classes for individuals with special needs.

PEA 1	Adapted Total Fitness	1/2 Unit
PEA 1X		1 Unit
PEA 1Y		1 1/2 Units
PEA 1Z		2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Three hours laboratory for each unit of credit.

(Any combination of Adapted Physical Education 1, 1X, 1Y and 1Z may be taken up to six times for credit.)

Adapted to provide reasonable accommodations for students with verified physical disabilities, Adapted Physical Education 1 is an introduction to the discipline of Physical Education through cardiovascular, strength, and flexibility training in the context of an individual's physical, intellectual, and/or affective abilities and limitations. Includes rules, equipment, etiquette, safety, nutrition, and techniques related to fitness training. Includes a brief historical examination of how fitness training has changed due to the influences of individuals, cultures, and medical research. Students will review and apply basic exercise physiology and fitness concepts in the context of their own abilities and limitations to develop and/or maintain their cardiovascular, strength, and flexibility fitness levels.

PEA 2	Adapted Strength Development	1/2 Unit
PEA 2X		1 Unit
PEA 2Y		1 1/2 Units
PEA 2Z		2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Three hours laboratory for each unit of credit.

(Any combination of Adapted Physical Education 2, 2X, 2Y and 2Z may be taken up to six times for credit.)

Adapted to provide reasonable accommodations for students with verified physical disabilities, Adapted Physical Education 2 is an introduction to the discipline of Physical Education through strength development in the context of an individual's physical, intellectual, and/or affective abilities and limitations. Includes rules, equipment, etiquette, safety, nutrition, and techniques related to strength training. Includes a brief historical examination of how strength training has changed due to the influences of individuals, cultures, and medical research. Students will review and apply basic exercise physiology and strength development concepts in the context of their own abilities and limitations to develop and/or maintain their muscular strength

PEA 4	Adapted Cardiovascular Training	1/2 Unit
PEA 4X		1 Unit
PEA 4Y		1 1/2 Units
PEA 4Z		2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Three hours laboratory for each unit of credit.

(Any combination of Adapted Physical Education 4, 4X, 4Y and 4Z may be taken up to six times for credit.)

Adapted to provide reasonable accommodations for students with verified physical disabilities, Adapted Physical Education 4 is an introduction to the discipline of Physical Education through cardiovascular training in the context of an individual's physical, intellectual, and/or affective abilities and limitations. Includes rules, equipment, etiquette, safety, nutrition, and techniques related to cardiovascular fitness training. Global and historical review of the evolution of aerobic exercise, exercise trends for men, women, and athletes as they correspond to the evolution of the discipline of Physical Education. Students will review and apply basic exercise physiology and fitness concepts in the context of their own abilities and limitations to develop and/or maintain their cardiovascular fitness levels.

PEA 5	Adapted Aquatic Exercise	1/2 Unit
PEA 5X		1 Unit
PEA 5Y		1 1/2 Units
PEA 5Z		2 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Three hours laboratory for each unit of credit.

(Any combination of Adapted Physical Education 5, 5X, 5Y and 5Z may be taken up to six times for credit.)

Adapted to provide reasonable accommodations for students with verified physical disabilities, Adapted Physical Education 5 is an introduction to the discipline of Physical Education through water exercise in the context of an individual's physical, intellectual, and/or affective abilities and limitations. Aquatic exercise uses dynamic aerobic exercise techniques to provide a level of conditioning for both the aerobic and anaerobic energy systems. The freestyle interval format combines jogging, jumping, walking, punching, kicking, and a variety of aerobic type movements performed in land-based programs. Students will strive for ultimate fitness through a complete program of cardiovascular exercise, strength development, and flexibility. An historical examination of Aqua Exercise for fitness, rehabilitation, and play will be included.

PEA 6X	Adapted Outdoor Education	1 Unit
PEA 6Y		1 1/2 Units

(Formerly Adapted Physical Education 60 and 60X respectively.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours laboratory for each unit of credit.

(Any combination of Adapted Physical Education 6X and 6Y may be taken up to six times for credit.)

A multifaceted course for students with disabilities seeking outdoor experiential education. Includes diverse experiences involving accessible activities including hiking, kayaking, white water rafting, camping, sailing, etc. Using adapted methodologies and wilderness safety, disabled students will experience survival techniques, investigate flora and fauna, experience greater joy and personal fulfillment being in an outdoor environment. Mental and physical strength will be tested. Students with disabilities will learn new personal skills.

PEA 56	Care and Prevention of Back Disorders	1/2 Unit
PEA 56X		1 Unit

(Formerly Adapted Physical Education 26 and 26X respectively.)

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Three hours laboratory for each unit of credit.

(Any combination of Adapted Physical Education 56 and 56X may be taken up to six times for credit.)

Proper fitness training in the prevention and care of chronic back disorders for students with verified physical limitations.

Physical Sciences, Math, and Engineering

PSME 41	Class Practices in Middle School Science and Mathematics	2 Units
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(Formerly Physical Sciences, Mathematics, and Engineering 61.)

Prerequisite: Qualifying score on the Math Placement Test within the last calendar year; or Mathematics 114 and a college level science course, both with a grade of C or better; current TB test, finger printing, and background check.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Education 41. Student may enroll in either department, but not both, for credit.)

One hour lecture, three hours laboratory.

Pass-No Pass (P-NP) course.

Introduction to the teaching and learning of science and mathematics in middle school classrooms for prospective science and mathematics teachers. Pairs of students are placed in local middle school classrooms to observe, participate and assist a Mentor Teacher in science and mathematics instruction. Students also participate in a weekly seminar on campus and discuss the best means to teach appropriate science and mathematics concepts at the middle school level.

PSME 95	Introduction to Peer Tutoring in Math and Science	2 Units
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Prerequisite: Must be selected to work as a De Anza tutor.

(Also listed as Learning Assistance 95. Student may enroll in either department, but not both, for credit.)

Two hours lecture.

Pass-No Pass (P-NP) course.

Content-specific strategies and communication skills to help peer tutors of math and science conduct productive, effective, and fun tutoring sessions. Experience applying instructional and learning theory and tutoring techniques to math and science content. Strategies for working with students from diverse backgrounds and with various learning styles. Self-reflection and peer feedback on actual tutoring sessions. Required of all De Anza group and individual math and science tutors during their first quarter of tutoring.

Physics

PHYS 2A	General Introductory Physics	5 Units
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: Mathematics 1A (may be taken concurrently).</i>		
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Physics 50.</i>		
<i>Four hours lecture, three hours laboratory.</i>		
An elementary study of the basic physical laws describing the motion of bodies. Includes the study of oscillations, waves, and sound. Applications to everyday physical phenomena in problem solving using verbal logic, critical thinking, and mathematics up to elementary calculus. In the laboratory, explore experimental scientific procedures by comparing theoretical models to classic experiments using standard measurement techniques, basic uncertainty analysis, and graphical interpretations of data.		
PHYS 2B	General Introductory Physics	5 Units
<i>Prerequisite: Physics 2A.</i>		
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i>		
<i>Four hours lecture, three hours laboratory.</i>		
The laws of mechanics applied to those of electricity and magnetism. An introduction to the physical properties of that fundamental quantity called charge. Includes the study of DC and AC circuits and their elementary applications. Concludes with electromagnetic waves. In the laboratory, learn to construct elementary circuits, measure and analyze their properties with electronic equipment including the oscilloscope, and study the behavior of moving charge in magnetic fields.		
PHYS 2C	General Introductory Physics	5 Units
<i>Prerequisite: Physics 2B.</i>		
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i>		
<i>Four hours lecture, three hours laboratory.</i>		
Study fluids, optics, thermodynamics, and modern physics. In the laboratory, continue to deepen an understanding of scientific procedure by applying theoretical models to classic experiments.		
PHYS 4A	Physics for Scientists and Engineers: Mechanics	6 Units
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: Physics 50 with a grade of C or better, or the equivalent (including high school physics); Mathematics 1B (may be taken concurrently).</i>		
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i>		
<i>Five hours lecture, three hours laboratory.</i>		
A rigorous introduction to the physical laws that describe and explain the motion of bodies. Analyze the structure of classical mechanics and its applications to problem solving using verbal logic, critical analysis, and mathematical models. Investigate general scientific procedures as a quantitative interplay between experimentation and theory employing statistical methods, graphical techniques, and measurement theory.		
PHYS 4B	Physics for Scientists and Engineers (Electricity and Magnetism)	6 Units
<i>Prerequisite: Physics 4A.</i>		
<i>Corequisite: Mathematics 1C.</i>		
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i>		
<i>Five hours lecture, three hours laboratory.</i>		
An introduction to classical electromagnetism. Includes DC and AC circuits and elementary field theory.		
PHYS 4C	Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics	6 Units
<i>Prerequisite: Physics 4B.</i>		
<i>Corequisite: Mathematics 1D.</i>		
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i>		
<i>Five hours lecture, three hours laboratory.</i>		
Introductory studies in static and dynamic fluids, mechanical and non-mechanical waves, geometrical and physical optics, heat and the laws of thermodynamics.		
PHYS 4D	Physics for Scientists and Engineers (Modern Physics)	6 Units
<i>Prerequisite: Physics 4C.</i>		
<i>Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.</i>		
<i>Five hours lecture, three hours laboratory.</i>		
Physics meets the Twentieth Century with a study of special relativity and quantum mechanics. Nuclear physics, elementary particles, and other selected topics are treated as time allows.		

PHYS 10 Concepts of Physics 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Mathematics 114 or equivalent; or a qualifying score on the Intermediate Algebra Placement Test.

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Five hours lecture.

Explore the fundamental concepts of physics as applied to everyday phenomena from a limited mathematical perspective emphasizing verbal logic, critical analysis, and rational thought. Analyze the history of scientific procedure as an interplay between theory and experimentation. Critically evaluate the role of scientific discovery in the success and development of technology.

PHYS 50 Preparatory Physics 4 Units

Advisory: Mathematics 49B; Physics 10.

Four hours lecture.

A study in basic problem solving techniques in mechanics as a preparation for Physics 4A.

PHYS 77 Special Projects in Physics 1 Unit

PHYS 77X 2 Units

PHYS 77Y 3 Units

Prerequisite: Consent of instructor and division dean.

Three hours laboratory for each unit of credit.

(Any combination of Physics 77, 77X and 77Y may be taken up to six times, not to exceed 18 units, as long as the projects are different each time.)

Pass-No Pass (P-NP) course.

Individual special reading, writing, or study projects in Physics as determined in consultation with the instructor.

Political Science

POLI 1 American Government and Politics 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

Critical examination of the contemporary and historical struggle for the development of democratic political institutions in the United States at the state, local, and national levels. Particular emphasis given to the conflict between disparate socioeconomic groups (e.g. traditional elite's versus the historically (and currently) disenfranchised; women, people of color, workers, immigrants, etc.) in the conduct of U.S. political life.

POLI 2 Comparative Politics 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Critical examination of the historical and contemporary development of various current major world political systems and the comparison of political phenomena at the intra-state, nation-state, inter-state, and global level of analysis.

POLI 3 International Relations 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Critical examination of the basic elements of contemporary international relations: scope, terminology, methodology, sovereignty, nationalism, national policies, globalization, power, international and regional political systems. The course will also discuss non-governmental organizations and issues such as human rights and the environment.

POLI 5 Introduction to Political Thought and Theory 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

A survey in the field of political theory including how to interpret, discuss, critique, debate and write about classical and contemporary political thought and theory. Both classic or traditional approaches as well as more current and contemporary paradigms specific to constituent groups traditionally excluded will be examined. Through this course of study, students will learn to think and discuss critically, both classic and modern issues in politics (e.g., individual versus community rights, freedom, equality and distributional justice, power, sovereignty and the state, etc.).

POLI 10 Introduction to Administration of Justice 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Administration of Justice 1. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

The history and philosophy of the administration of justice in America. A study of the overall system from its European antecedents and development within the United States; identification of various subsystems and components; their role expectations and interrelationships; basic premise of crime, punishment and rehabilitation; the role of education in the administration of justice within a democracy.

POLI 11 Federal Courts and Constitutional Law 4 Units

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Paralegal 11 and Administration of Justice 11. Student may enroll in only one department for credit.)

Four hours lecture.

Federal court procedure and the impact of U.S. Constitutional law on federal and state law. Read and analyze the Constitution. Effect of U.S. Supreme Court cases on current constitutional interpretation.

POLI 13 Concepts of Criminal Law (CP 2) 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Paralegal 3 and Administration of Justice 3. Student may enroll in only one department for credit.)

Four hours lecture.

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 in a multicultural, multiethnic society.

POLI 15 Grassroots Democracy: Race, Politics and the American Promise 4 Units

(Formerly Political Science 53.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Social Science 15 and Women's Studies 15. Student may enroll in only one department for credit.)

Four hours lecture.

Applied and theoretical study for students of social justice, this course will examine race, culture and contradictions in the ideal of the American Dream through a comparative analysis of American experiences of migration. Particular emphasis will be on the historical experiences of European immigrants, African Americans, Mexican Americans, and Asian Americans. The course will also discuss the contemporary social and cultural implications of the migration process. Using a multidisciplinary social science approach, attention will be given to issues of race, ethnicity, gender, and class, as well as the role of the state (policy) to the process of immigration.

POLI 16 Grassroots Democracy: Social Movements Since the 1960s 4 Units

(Formerly Political Science 54.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Social Science 16 and Women's Studies 16. Student may enroll in only one department for credit.)

Four hours lecture.

Applied and theoretical learning for students of social justice, this course is a comparative survey of protest movements since the 1960's. An introductory, comparative, and interdisciplinary study of Mexican American, African American, Asian American, and white working class social and political struggles from 1960 to the present. The course traces the development of protest movements in response to racial, class, gender, and political inequality in the context of U.S. politics and history. The course critically examines the internal and external factors contributing to the rise and fall of social and political movements with special attention to the conjuncture of gender, race, ethnicity, culture, class, and sexual preference in contemporary U.S. politics.

POLI 33 Introduction to Peace and Conflict Studies 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as International Studies 33. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Introduction to a broad range of issues, concepts, and approaches fundamental to the study of peace and conflict predominantly from the discipline of political science but incorporating ethnology, psychology, anthropology, religion, economics, and history. Students assess: the role of international norms, institutions, and states; the impact of religious, philosophical, and cultural influences; and the processes and sources of social change as they relate to upholding peace, culminating in the examination and identification of factors that attend conflict and violence with the intention of applying this understanding toward the prevention, de-escalation, and resolution of conflicts.

POLI 75 Principles and Procedures of the Justice System 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Administration of Justice 75 and Paralegal 75. Student may enroll in only one department for credit.)

Four hours lecture.

Procedures followed by law enforcement and courts in criminal cases; constitutional principles governing those procedures.

POLI 95 Overview of American Law 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Administration of Justice 95 and Paralegal 95. Student may enroll in only one department for credit.)

Four hours lecture.

Overview of the major substantive areas of American law: Agency, contracts, constitutional law, corporations, criminal law, family law, property, torts, wills and estates.

Psychology

PSYC 1 General Psychology 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Factors influencing human behavior including: biological and neurological processes and structures, evolution, genetics, gender, life span development, consciousness, attention, sensation, perception, learning, memory cognition, intelligence, motivation, emotion, stress, personality, psychopathology, psychotherapy, social and cultural determinants.

PSYC 2 Psychology as a Behavioral Science and Profession 6 Units

Prerequisite: Psychology 1.

Advisory: English Writing 1A or English as a Second Language 5.

Five hours lecture, three hours laboratory.

Psychology as a behavioral science and profession. Basic principles of learning, and behavior modification.

PSYC 3 Human Experimental Psychology (An Introduction to Cognitive Science) 6 Units

Advisory: English Writing 1A or English as a Second Language 5; Psychology 1.

Five hours lecture, three hours laboratory.

A survey of human experimental psychology and cognitive science with emphasis on research design, methodology and scientific report writing. Research design and methodology will be illustrated and integrated through a selected review of concepts and research in neurophysiology, sensation, perception and memory.

PSYC 4 Abnormal Psychology 4 Units

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

A historical overview of abnormal psychology with emphasis on current paradigms and models in psychopathology and therapy including a survey of research methodology; clinical assessment, classification, and diagnosis with special focus on cultural, gender, and age issues in psychopathology and therapy.

PSYC 5 Introduction to Theories of Personality 4 Units

Advisory: English Writing 1A or English as a Second Language 5; Psychology 1.

Four hours lecture.

Survey of major theories and concepts of personality. Topics to include: Freudian, neo-Freudian, interpersonal, dispositional, behavioral and phenomenological theories.

PSYC 6 Introduction to Humanistic Psychology 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

A survey of humanistic, existential-phenomenological psychology and Eastern thought. A cross-cultural survey of humanistic personality principles including Western European existential phenomenological psychology and the current and historical impact of Eastern thought.

PSYC 8 Introduction to Social Psychology 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

The scientific study of the way individuals think, feel and behave in social situations. The systematic approach will include cross cultural and comparative perspectives.

PSYC 9 Psychology of Human Relationships and Normal Adjustment 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

A survey of current theoretical and applied psychological knowledge relevant to personal/social interactions and normal psychological adjustment.

PSYC 10G Child Development (The Early Years) 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Child Development 10G. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

An examination of human growth and development from conception to middle childhood with particular attention given to current theoretical and research perspectives within a diverse society. Observational study of children with analysis of factors influencing development including conditions that put children at risk. (This course meets NAEYC Standards 1 and 3; NBPTS Standards 1 and 4; and CEC Standards 1, 2 and 3.)

PSYC 10H Child Development (Middle Childhood and Adolescence) 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Child Development 10H. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

An examination of human growth and development both typical and atypical from school age through adolescence with particular attention given to current theoretical and research perspectives within a diverse society. (This course meets NAEYC Standards 1 and 3; NBPTS Standards 1 and 4; and CEC Standards 1, 2 and 3.)

PSYC 12 Psychology of Gender 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Women's Studies 12. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

A survey of the psychobiological, cultural, social and intellectual factors influencing the psychology of gender.

PSYC 14 Developmental Aspects of Psychology 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Interaction of the biological, social, cognitive and psychological development across the life span.

PSYC 15 Basic Statistics and Research Methods in Social and Behavioral Sciences 4 Units

Prerequisite: Psychology 1 or Sociology 1; Mathematics 114 or equivalent.

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Sociology 15. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Elementary statistics including measures of central tendency, variability, probability, correlation, tests of significance, experimental and quasi-experimental designs.

PSYC 24 Introduction to Psychobiology 4 Units

Prerequisite: Psychology 1.

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

A survey of the central and peripheral nervous system processes underlying the behavior of humans and animals, with emphasis on evolutionary, genetic and gender differences underlying social behavior, the basic anatomical and physiological substrates of behavior and consciousness and on the neural mechanisms and sensory processes associated with learning, language, perception, motivation, emotion, sleep, speech, and sexual behavior.

PSYC 60 Industrial Organizational Psychology 4 Units

Advisory: English Writing 1A or English as a Second Language 5; Psychology 1.

Four hours lecture.

Application of psychological principles to issues faced by business and industry, law, government, and the military services.

PSYC 63 Sexual Assault, Police and Community Response 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Administration of Justice 62. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Societal and psychological aspects of sexual assault, the perpetrators and the victims; practical application of the police investigation, the criminal justice process, and social service intervention.

PSYC 64 Psychology Internship 1 Unit

PSYC 64X 2 Units

PSYC 64Y 3 Units

PSYC 64Z 4 Units

Advisory: English Writing 1A or English as a Second Language 5; Psychology 1. Four hours laboratory per unit of supervised internship in an authorized office or agency.

(Any combination of Psychology 64, 64X, 64Y and 64Z may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.)

Program of work experience and study in Psychology or Human Services under the supervision of the instructor and agency personnel.

PSYC 67 Introduction to Clinical Psychology 4 Units

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

An analysis of the major theoretical formulations in the history of clinical psychology, from classical psychoanalysis to contemporary existentialism and behavior modification. An overview of diagnosis, assessment and treatment methods. An examination of clinical psychology as a profession including education, training, specialties and employment.

PSYC 74A Interviewing, Interrogation and Crisis Intervention 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Administration of Justice 74A and Paralegal 74A. Student may enroll in only one department for credit.)

Four hours lecture.

Theories, principles and strategies of tactical and interpersonal communication necessary to interview victims, witnesses, and suspects; crisis intervention strategies for victims and witnesses of crime; communication with individuals from diverse backgrounds with consideration to race, ethnicity, gender, age and special needs.

Reading

(See other self-paced Reading courses under Skills.)

READ 70 Reading Across the Disciplines 1 Unit

Prerequisite: A qualifying score on the English and Reading Placement Tests for English Writing 1A; or satisfactory completion of English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Corequisite: Reading 70 students must also enroll in an appropriate course in the disciplines of Business, History, Humanities, Intercultural Studies, Psychology or Sociology.

One hour lecture.

(May be taken up to six times for credit as long as the corequisites are different each time.)

Improve comprehension of reading materials in a specific content-area course through the application of reading strategies and critical analysis of reading materials specific to the course. Offered in coordination with specific sections of content area courses.

READ 80 Advanced Reading for College Success 4 Units

Prerequisite: Qualifying score on the Reading Placement Test for English Writing 1A; or satisfactory completion of English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours lecture.

College-level reading techniques and practice to enhance reading efficiency for academic, career, and personal growth. Application of comprehension, analysis, and interpretation skills to a range of challenging readings, including texts and primary-source materials from various cultural perspectives and across disciplines. This course may be linked with courses in other disciplines.

READ 200 Reading Fundamentals 5 Units
(Formerly Reading 201.)
 Credit course - Does not apply to De Anza Associate degree.
 Prerequisite: A qualifying score on the Reading Placement Test.
 Five hours lecture.
 Pass-No Pass (P-NP) course.
 An introduction to everyday benefits of reading. A practice in learning and applying reading methods to appropriate reading material and learning strategies for improving reading comprehension and rate.

READ 211 Developmental Reading 5 Units
(Formerly Reading 100.)
 Credit course - Does not apply to De Anza Associate degree.
 Prerequisite: Reading 200; or a qualifying score on the Reading Placement Test.
 Five hours lecture.
 Pass-No Pass (P-NP) course.
 Improve ability to read independently and effectively in work, academic, and personal environments.

Real Estate

REST 50 Real Estate Principles 4 Units
 Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent.
 Four hours lecture.
 Fundamental principles of real estate: economics, law, working concepts, forms and terminology.

REST 51 Real Estate Practices 4 Units
 Prerequisite: Real Estate 50.
 Four hours lecture.
 Real estate business practices: procedures, forms and contracts.

REST 52A Legal Aspects of Real Estate 4 Units
 Advisory: Real Estate 50.
 (Also listed as Paralegal 52A. Student may enroll in either department, but not both, for credit.)
 Four hours lecture.
 California real property laws with emphasis on their practical application. Sources of real estate law; classes of property; fixtures; easements; estates or interest in real property; contracts of sale; covenants; conditions; and restrictions.

REST 53 Real Estate Finance 4 Units
 Prerequisite: Real Estate 50.
 Four hours lecture.
 Regulations and procedures for financing real estate: types of lenders; primary and secondary investors; methods and guidelines for qualifying for real property loans.

REST 54 Real Estate Economics 4 Units
 Prerequisite: Real Estate 50.
 Four hours lecture.
 Economic factors affecting real estate; urban development, renewal and regulation of land uses; business fluctuations and real estate cycles; mortgage market; commercial, industrial and residential income properties and trends; rural and special purposes properties and trends.

REST 56A Real Estate Appraisal I 4 Units
 Prerequisite: Real Estate 50.
 Four hours lecture.
 Principles of real property valuation; sales market data, construction, methods of appraising; current trends and new technologies; uniform standards for appraising (USPAP), career opportunities.

REST 59 Survey of Real Estate Property Management 4 Units
 Prerequisite: Real Estate 50.
 Four hours lecture.
 Successful techniques and practices in the management of income property from acquisition to disposal; neighborhood analysis, rent schedules, renting, credit and collections, maintenance, insurance, tax considerations, pitfalls in the purchase of income property.

REST 61 Real Estate Investments 4 Units
 Advisory: Real Estate 50.
 Four hours lecture.
 Real estate investments including apartments, commercial, and industrial buildings.

REST 135 Foreclosure Technology Tools 1/2 Unit
 (Also listed as Computer Applications and Office Systems 135. Student may enroll in either department, but not both, for credit.)
 One-half hour lecture.

Learn the basic principles to purchase foreclosed and short sale real estate properties using essential technology tools. Course explores three stages of foreclosures including pre-foreclosure, auction, and bank owned (REO) properties. Explore essential tips that home buyers, investors and real estate agents must consider before purchasing distressed properties. (DRE approved for 6 hours CE Consumer Protection credit. A 70% or better required on the final exam.)

Russian

RUSS 1 Elementary Russian (First Quarter) 5 Units
(Formerly Russian 91.)
 (See general education pages for the requirement this course meets.)
 Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
 Five hours lecture.
 Introduction to the language and culture of Russia. Basic speaking, listening, reading, and writing of Russian will be introduced and practiced within a cultural framework. Emphasis will be on language as an expression of culture. Oral practice and conversation based on understanding of the language structure. Language laboratory practice will be part of the regular instruction to reinforce pronunciation, grammar, syntax, and simple conversation.

RUSS 2 Elementary Russian (Second Quarter) 5 Units
(Formerly Russian 92.)
 (See general education pages for the requirement this course meets.)
 Prerequisite: Russian 1 (equivalent to one year of high school Russian) or equivalent.
 Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
 Five hours lecture.
 Further development of material presented in Russian 1. Continuation of introduction to the language and culture of Russian Federation. Elementary speaking, listening, reading, and writing of Russian will be continued and practiced within a cultural framework. Emphasis will be on language as an expression of culture. Language laboratory will be practiced to reinforce pronunciation, grammar, syntax, and simple conversation.

RUSS 3 Elementary Russian (Third Quarter) 5 Units
(Formerly Russian 93.)
 (See general education pages for the requirement this course meets.)
 Prerequisite: Russian 2 (equivalent to two years of high school Russian) or equivalent.
 Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
 Five hours lecture.
 Further development of material presented in Russian 1 and 2. Continuation of introduction to the language and culture of Russia. Elementary speaking, listening, reading, and writing of Russian will be continued and practiced within a cultural framework. Emphasis will be on language as an expression of culture. Language laboratory will be practiced to reinforce pronunciation, grammar, syntax, and conversations.

RUSS 61A Russian - Intermediate Conversation (First Quarter) 3 Units
 Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Russian 3.
 Three hours lecture.
 Designed to develop conversational skills based on language structures acquired during the previous studies and to increase language accuracy and fluency. It will emphasize usage of idiomatic expressions and conversational exchanges on common topics. Students will be using language through different forms such as reading, listening, speaking. There will be discussions on daily-life situations and cultural topics.

RUSS 61B Russian - Intermediate Conversation (Second Quarter) 3 Units
 Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Russian 61A.
 Three hours lecture.
 Designed to develop conversational skills based on language structures acquired during the previous studies and to increase language accuracy and fluency. Students will be using language through different forms such as reading, listening, speaking. There will be discussions on daily-life situations and cultural topics. More idiomatic expressions and newer discussions subjects will be introduced.

RUSS 61C Russian - Intermediate Conversation (Third Quarter) 3 Units
 Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263; Russian 61B.
 Three hours lecture.
 Designed to improve conversational skills and communicative competence. More idiomatic expressions will be introduced. Students will be using language in different forms such as reading, listening, speaking. There will be discussions on daily-life situations as well as historical, cultural and political topics.

Sign Language

SIGN 1 Elementary American Sign Language (First Quarter) 5 Units

(See general education pages for the requirement this course meets.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Five hours lecture.

Development of and practice in elementary American Sign Language (ASL); preparation for acquiring a visual gestural language; finger spelling; vocabulary; modeling and use of basic grammatical structure. Beginning communication skill with emphasis on comprehension. Basic cultural aspects of deafness; historical and linguistic elements of sign language. Taught primarily in American Sign Language.

SIGN 2 Elementary American Sign Language (Second Quarter) 5 Units

(See general education pages for the requirement this course meets.)
Prerequisite: Sign Language 1 or equivalent.
Five hours lecture.

Continuation of elementary American Sign Language (ASL) skills in targeted language functions: finger spelling; vocabulary; modeling and use of grammatical structure. Focus on greater communicative competence. Study of deaf culture and the development and linguistics of American Sign Language. Taught in American Sign Language.

SIGN 3 Elementary American Sign Language (Third Quarter) 5 Units

(See general education pages for the requirement this course meets.)
Prerequisite: Sign Language 2 or equivalent.
Five hours lecture.

Continuation of elementary American Sign Language (ASL) skills in targeted language functions with focus on greater structural accuracy and communicative competence. Study of deaf culture and the development and linguistics of American Sign Language. Taught in American Sign Language.

Skills

(See other Reading courses under Skills.)

SKIL 200 Reading Skills 1/2 Unit **SKIL 200X 1 Unit**

(Formerly Skills 100 and 100X respectively.)
Credit course - Does not apply to De Anza Associate degree.
Two hours lecture-laboratory for each unit of credit.
(Any combination of Skills 200 and 200X may be taken up to six times for credit.)
Pass-No Pass (P-NP) course.

An individualized program of instruction for students who want to improve their reading skills for academic or workplace environments. Focus on active reading, previewing techniques, textbook reading strategies, basic and critical comprehension, vocabulary in context, textbook reading strategies, and workplace reading, using culturally relevant methods and texts.

SKIL 205 Vocabulary Skills 1/2 Unit

(Formerly Skills 105.)
Credit course - Does not apply to De Anza Associate degree.
One hour lecture-laboratory.
(May be taken up to six times for credit.)
Pass-No Pass (P-NP) course.

An individualized program in vocabulary development designed to improve reading comprehension and the ability to communicate effectively when speaking and writing English through the use of culturally relevant methods and texts.

SKIL 210 Basic Mathematic Skills 1/2 Unit

(Formerly Skills 110.)
Credit course - Does not apply to De Anza Associate degree.
One hour lecture-laboratory.
(May be taken up to six times for credit.)
Pass-No Pass (P-NP) course.

An individualized program of instruction for students who want to improve their basic math skills for academic or workplace environments. Focus on study strategies for learning math and overcoming math anxiety, and addition, subtraction, multiplication and division using whole numbers, fractions, decimals, and percentages.

SKIL 220 Writing Skills **SKIL 220X**

(Formerly Skills 120 and 120X respectively.)
Credit course - Does not apply to De Anza Associate degree.
One hour lecture-laboratory for each one-half unit of credit.
(Any combination of Skills 220 and 220X may be taken up to six times for credit.)
Pass-No Pass (P-NP) course.

A self-paced, individualized program of instruction for students who want to improve their writing skills for academic or workplace environments. Focus on writing process, paragraph development, organization, and editing skills, using culturally relevant methods and texts.

SKIL 221 Spelling Skills 1/2 Unit

(Formerly Skills 121.)
Credit course - Does not apply to De Anza Associate degree.
One hour lecture-laboratory.
(May be taken up to six times for credit.)
Pass-No Pass (P-NP) course.

An individualized program focusing on basic rules, editing and memory strategies to improve spelling and written communication through culturally relevant methods and texts.

SKIL 222 Grammar Skills 1/2 Unit **SKIL 222X 1 Unit**

(Formerly Skills 122 and 122X respectively.)
Credit course - Does not apply to De Anza Associate degree.
One hour lecture-laboratory for each one-half unit of credit.
(Any combination of Skills 222 and 222X may be taken up to six times for credit.)
Pass-No Pass (P-NP) course.

A self-paced, individualized program of instruction for students who want to improve their grammar skills for academic or workplace environments. Focus on fundamentals of English grammar, parts of speech, verb tenses, punctuation, sentence boundaries, and editing for sentence correctness using culturally relevant texts and methods.

SKIL 230 Study Skills 1/2 Unit **SKIL 230X 1 Unit**

(Formerly Skills 130 and 130X respectively.)
Credit course - Does not apply to De Anza Associate degree.
One hour lecture-laboratory for each one-half unit of credit.
(Any combination of Skills 230 and 230X may be taken up to six times for credit.)
Pass-No Pass (P-NP) course.

A self-paced, individualized program of instruction covering study skills such as time management, textbook reading, note taking, and test taking using culturally relevant methods and texts.

SKIL 232 Adjunct Study Skills 1/2 Unit

(Formerly Skills 132.)
Credit course - Does not apply to De Anza Associate degree.
Corequisite: Student must be concurrently enrolled in an approved content course.

One hour lecture-laboratory.
(May be taken up to six times for credit.)
Pass-No Pass (P-NP) course.

Small group collaborative instruction linked to specific content courses and individualized study skills lab modules. Students learn, practice, and apply to targeted courses skills such as time management, textbook reading, note taking, and test taking.

Social Science

SOSC 15 Grassroots Democracy: Race, Politics and the American Promise 4 Units

(Formerly Social Science 53.)
(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5.
(Also listed as Social Science 15 and Women's Studies 15. Student may enroll in only one department for credit.)
Four hours lecture.

Applied and theoretical study for students of social justice, this course will examine race, culture and contradictions in the ideal of the American Dream through a comparative analysis of American experiences of migration. Particular emphasis will be on the historical experiences of European immigrants, African Americans, Mexican Americans, and Asian Americans. The course will also discuss the contemporary social and cultural implications of the migration process. Using a multidisciplinary social science approach, attention will be given to issues of race, ethnicity, gender, and class, as well as the role of the state (policy) to the process of immigration.

De Anza College.
Just What You Need

SOSC 16 Grassroots Democracy: Social Movements Since the 1960s 4 Units

(Formerly Social Science 54.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Women's Studies 16 and Political Science 16. Student may enroll in only one department for credit.)

Four hours lecture.

Applied and theoretical learning for students of social justice, this course is a comparative survey of protest movements since the 1960's. An introductory, comparative, and interdisciplinary study of Mexican American, African American, Asian American, and white working class social and political struggles from 1960 to the present. The course traces the development of protest movements in response to racial, class, gender, and political inequality in the context of U.S. politics and history. The course critically examines the internal and external factors contributing to the rise and fall of social and political movements with special attention to the conjuncture of gender, race, ethnicity, culture, class, and sexual preference in contemporary U.S. politics.

SOSC 17 Grassroots Democracy: Leadership and Power 4 Units

(Formerly Social Science 52.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Women's Studies 17. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

(See modules under Social Science/Women's Studies 52G-J.)

(Students who receive credit for the parent course, Social Science/Women's Studies 17, may not also receive credit for the modular courses, Social Science/Women's Studies 52G, 52H, 52I, or 52J.)

Applied and theoretical learning for students of social justice, this course is a multidisciplinary exploration of social change and popular democratic action with a focus on the meaning and development of political power in modern democracies. Topics to be explored include: institutional and mass forums for civic engagement, leadership development, mass recruitment and mobilization, consciousness development, democratic ethics, and strategic and tactical action.

SOSC 52G Grassroots Democracy: The Basics of Grassroots Organizing 2 Units

(Formerly Social Science 52A.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Women's Studies 52G. Student may enroll in either department, but not both, for credit.)

Two hours lecture.

(Students who receive credit for the parent course, Social Science/Women's Studies 17, may not also receive credit for Social Science/Women's Studies 52G. Additionally, students may only receive a maximum of four units credit for any combination of Social Science/Women's Studies 52G, 52H, 52I, and 52J. None of the modular courses are repeatable for credit.)

Explores the literature and practice of community, issue and electoral organizing as it has developed in the United States. Particular emphasis will be placed on theories and techniques of leadership development, mass mobilization, and strategic and tactical action arising out of such popular social movements as the labor movement, the civil rights movement, the women's movement, the gay rights movement, the peace movement, the environmental movement, the right-to-life and Christian evangelical movements, the anti-tax movement, and the student movement.

SOSC 52H Grassroots Democracy: Critical Consciousness and Grassroots Organizing 1 Unit

(Formerly Social Science 52B.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Women's Studies 52H. Student may enroll in either department, but not both, for credit.)

One hour lecture.

(Students who receive credit for the parent course, Social Science/Women's Studies 17, may not also receive credit for Social Science/Women's Studies 52H. Additionally, students may only receive a maximum of four units credit for any combination of Social Science/Women's Studies 52G, 52H, 52I, and 52J. None of the modular courses are repeatable for credit.)

Examines the theories and methods of the development of a critical consciousness of civic participation and social protest as core elements of the practice of democracy in contemporary society. Particular emphasis will be placed on theories and techniques of consciousness raising developed in popular social movements dealing with labor rights, civil rights, women's liberation, gay rights, peace, the environment, abortion and reproductive choice, evangelical Christianity, taxes and student rights.

SOSC 52I Grassroots Democracy: Leaders and Power 2 Units

(Formerly Social Science 52C.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Women's Studies 52I. Student may enroll in either department, but not both, for credit.)

Two hours lecture.

(Students who receive credit for the parent course, Social Science/Women's Studies 17, may not also receive credit for Social Science/Women's Studies 52I. Additionally, students may only receive a maximum of four units credit for any combination of Social Science/Women's Studies 52G, 52H, 52I, and 52J. None of the modular courses are repeatable for credit.)

Examines the role of leaders in the development of grassroots democratic movements. Particular emphasis will be placed on the tensions between centralization and decentralization, accommodation and conflict, and individual versus group action. Case studies will be drawn from a variety of popular social movements including but not limited to movements dealing with labor rights, civil rights, women's liberation, gay rights, peace, the environment, abortion and reproductive choice, evangelical Christianity, taxes and student rights.

SOSC 52J Grassroots Democracy: Critical Consciousness and the Role of Leadership 1 Unit

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Women's Studies 52J. Student may enroll in either department, but not both, for credit.)

One hour lecture.

(Students who receive credit for the parent course, Social Science/Women's Studies 17, may not also receive credit for Social Science/Women's Studies 52J. Additionally, students may only receive a maximum of four units credit for any combination of Social Science/Women's Studies 52G, 52H, 52I, and 52J. None of the modular courses are repeatable for credit.)

Examines the role of critical consciousness in the development of leaders within grassroots democratic movements. Case studies will be drawn from a variety of popular social movements including but not limited to movements dealing with labor rights, civil rights, women's liberation, gay rights, peace, the environment, abortion and reproductive choice, evangelical Christianity, taxes and student rights.

SOSC 64 Social Sciences Internship 1 Unit

SOSC 64X 2 Units

SOSC 64Y 3 Units

SOSC 64Z 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Four hours per week per unit of supervised internship in an authorized office or agency.

(Any combination of Social Sciences 64, 64X, 64Y and 64Z may be taken up to six times for credit, not to exceed 18 units, as long as the topics/projects are different each time.)

A service learning and/or workplace experience internship in education, nonprofit organizations, business, industry or government related to the student's field of study.

SOSC 77 Special Projects in Social Sciences 1/2 Unit

SOSC 77X 1 Unit

SOSC 77Y 2 Units

SOSC 77Z 3 Units

(Formerly Social Science 40, 40X, 40Y and 40Z respectively.)

Three hours laboratory for each unit of credit.

(Any combination of Social Sciences 77, 77X, 77Y and 77Z may be taken up to six times for credit, not to exceed 18 units, as long as the projects are different each time.)

Individual special reading, writing, or study projects in such disciplines as history, philosophy, or psychology.

SOSC 80 Community Based Learning in Social Sciences 1/2 Unit

SOSC 80W 1 Unit

SOSC 80X 2 Units

SOSC 80Y 3 Units

SOSC 80Z 4 Units

Three hours laboratory for each unit of credit.

(Any combination of Social Sciences 80, 80W, 80X, 80Y and 80Z may be taken up to six times for credit, not to exceed 18 units, as long as the topics/projects are different each time.)

Practical work with a community, business or civic institution and reflection on that activity.

SOSC 97 Topics in Social Sciences 1/2 Unit

SOSC 97W 1 Unit

SOSC 97X 2 Units

SOSC 97Y 3 Units

SOSC 97Z 4 Units

Advisory: English Writing 1A or English as a Second Language 5.

One hour lecture for each unit of credit.

(Any combination of Social Sciences 97, 97W, 97X, 97Y and 97Z may be taken up to six times for credit, not to exceed 18 units, as long as the topics are different each time.)

Selected topics in the social sciences that deal with one or more of the political, sociological, legal, cultural, psychological, historical, and/or economic aspects of our contemporary world.

Sociology

SOC 1	Introduction to Sociology	4 Units
<i>(See general education pages for the requirement this course meets.)</i> Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. The sociological approach to the study of human behavior from a variety of perspectives. Explore important concepts in sociology, including culture, social structure, socialization, social institutions, groups, social interaction, social inequality, collective behavior, and social change in human societies.		
SOC 5	Sociology of Globalization and Social Change	4 Units
<i>(Formerly Sociology 58.)</i> <i>(See general education pages for the requirement this course meets.)</i> Advisory: English Writing 1A or English as a Second Language 5. <i>(Also listed as International Studies 8. Student may enroll in either department, but not both, for credit.)</i> Four hours lecture. Introduction to the sociological study of globalization and other forms of social change. Macrosociological analysis of economic, political, military, cultural, technological, and environmental aspects of globalization; history of globalization, European colonialism and decolonization processes; impact of multinational corporations and global political and financial institutions, and social movements from cross-cultural and global perspectives.		
SOC 8	Sociology of Religion	4 Units
<i>(Formerly Sociology 85.)</i> <i>(See general education pages for the requirements this course meets.)</i> Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Introduction to the sociological study of religion. Cross-cultural analysis of the social dimensions of religious life, including doctrine, practices, symbology, organization, political economy, racial, ethnic, gender and class differences, sexuality, media, social movements and change. Active, major world religions explored, including Indigenous American and African Ancestral traditions, Hinduism, Daoism, Judaism, Confucianism, Buddhism, Christianity, and Islam in their specific historical and cultural contexts.		
SOC 15	Basic Statistics and Research Methods in Social and Behavioral Sciences	4 Units
Prerequisite: Psychology 1 or Sociology 1; Mathematics 114 or equivalent. Advisory: English Writing 1A or English as a Second Language 5. <i>(Also listed as Psychology 15. Student may enroll in either department, but not both, for credit.)</i> Four hours lecture. Elementary statistics including measures of central tendency, variability, probability, correlation, tests of significance, experimental and quasi-experimental designs.		
SOC 20	Social Problems	4 Units
<i>(See general education pages for the requirement this course meets.)</i> Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture. Exploration of sociological perspectives on contemporary social problems. Examination of the social processes through which issues come to be viewed as social problems and the dynamics through which groups attempt to respond to and solve these problems.		
SOC 25	Law and Social Change	4 Units
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. <i>(Also listed as Administration of Justice 25 and Paralegal 25. Student may enroll in only one department for credit.)</i> Four hours lecture. Exploration of the use of law as an instrument for social change. Examination of relationship between law and social change in cross-cultural settings. Analysis of legislation, case law, the process of conflict resolution and legal institutions as they relate to social change.		
SOC 28	Sociology of Women and Men	4 Units
<i>(See general education pages for the requirement this course meets.)</i> Advisory: English Writing 1A or English as a Second Language 5. <i>(Also listed as Women's Studies 28. Student may enroll in either department, but not both, for credit.)</i> Four hours lecture. Application of sociological perspectives to an understanding of gender. Focuses on how we come to think and act as men and women and on gender as an organizing principle of social life. Includes investigation of masculinities and femininities, gender socialization, gender inequality, how gender is shaped by race, class, nation and sexuality, and the family, media, education, economics, politics and religion as gendered institutions, from a cross-cultural and global perspective.		

SOC 35 Marriage, Family, and Intimate Relationships 4 Units

(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5.
Four hours lecture.
A sociological investigation and analysis of the diversity of family structures and intimate relationships in society. Topics to be explored include the history of the family, gender socialization and inequality, dating, divorce and remarriage, gay and lesbian relationships, the family as an economic unit, communication and conflict resolution, sexuality, interracial relationships, and domestic violence.

SOC 50 Crime, Correction and Society 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Also listed as Administration of Justice 50. Student may enroll in either department, but not both for credit.)
Four hours lecture.
A legal and sociological approach to understanding the fundamental ideas which have shaped correctional theories and practices. An in-depth study of adult sentencing, prisons, and jails subsystem including institutions by type and function, probation, parole and community based programs. A comprehensive examination of current correctional practices, punishment, rehabilitation, and community treatment programs with an emphasis on issues concerning race, ethnicity and gender.

SOC 51 Women in Crime 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Also listed as Administration of Justice 51. Student may enroll in either department, but not both, for credit.)
Four hours lecture.
An examination of the changing role of women in crime with emphasis on gender and cultural based differences related to victims, offenders and criminal justice professionals.

SOC 54 Youth and the Law 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Also listed as Administration of Justice 54 and Paralegal 54. Student may enroll in only one department for credit.)
Four hours lecture.
A legal and sociological approach to understanding the causes of juvenile delinquency; an examination of race, culture and gender in juvenile delinquency; community responses to delinquency; organization, functions and jurisdiction of both social and legal agencies; processing and detention; case disposition; statutes and court procedures.

SOC 73 Crime and Criminology 4 Units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Also listed as Administration of Justice 73. Student may enroll in either department, but not both, for credit.)
Four hours lecture.
Introduction to major types of crime and criminal behavior, examining demographics and measurement of crime, theories of causation and victimization, crime prevention and crime control.

SOC 77X Special Projects in Sociology 2 Units

SOC 77Y 3 Units
(Formerly Sociology 40X and 40Y respectively.)
Three hours laboratory for each unit of credit.
(Any combination of Sociology 77X and 77Y may be taken up to six times for credit, not to exceed 18 units, as long as the projects are different each time.)
Individual and/or group projects in sociology that deal with one or more of the aspects in the field of sociology.

Spanish

SPAN 1 Elementary Spanish (First Quarter) 5 Units

(See general education pages for the requirement this course meets.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
Five hours lecture.
Introduction to the language and cultures of Spanish-speaking world areas. Speaking, listening, reading and writing language skills at the first level of elementary Spanish are developed within the framework of language as a fundamental expression of culture. Spanish is the primary language of instruction. Language laboratory practice and/or assignments, at home and/or in the language lab, are an integral part of instruction supporting the development of language skills in the areas of pronunciation, structure, syntax, and oral communication.

SPAN 2 Elementary Spanish (Second Quarter) 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Spanish 1 (equivalent to one year of high school Spanish) or equivalent.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Development of elementary language skills for oral and written communication using language structures and functions targeted for the second level of elementary Spanish. Spanish is the primary language of instruction. Speaking, listening, reading and writing skills at the second level of elementary Spanish will be developed within the framework of language as a fundamental expression of culture, with continued presentation of the cultures of Spanish-speaking world areas. Language laboratory practice and/or assignments at home and/or in the language lab, are an integral part of instruction supporting the development of language skills in the areas of pronunciation, structure, syntax, and oral communication.

SPAN 3 Elementary Spanish (Third Quarter) 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Spanish 2 (equivalent to two years of high school Spanish) or equivalent.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Development of elementary language skills for oral and written communication using language structures and functions targeted for the third level of elementary Spanish. Spanish is the working language. Focus is on greater structural accuracy and communicative competence within the framework of language as a fundamental aspect of culture. Language laboratory practice and/or assignments at home and/or in the language lab are an integral part of instruction, supporting the development of language skills in the areas of pronunciation, structure, syntax and oral communication.

SPAN 4 Intermediate Spanish (First Quarter) 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Spanish 3 (equivalent to three years of high school Spanish) or equivalent.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Reading and discussion of texts dealing with the literature, arts, culture, history and geography of the Spanish-speaking world. Review and expansion of the structures, grammatical features and linguistic functions of Elementary Spanish. Development of reading, writing, speaking and listening skills at the first intermediate level within the framework of language as a fundamental expression of culture.

SPAN 5 Intermediate Spanish (Second Quarter) 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Spanish 4 (equivalent to four years of high school Spanish) or equivalent.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Reading and discussion of texts dealing with the literature, arts, culture, history and geography of the Spanish-speaking world. Review and expansion of the structures, grammatical features and linguistic functions of Spanish 4. Development of reading, writing, speaking and listening skills at the second intermediate level within the framework of language as a fundamental expression of culture.

SPAN 6 Intermediate Spanish (Third Quarter) 5 Units

(See general education pages for the requirement this course meets.)

Prerequisite: Spanish 5 or equivalent.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Five hours lecture.

Reading and discussion of texts dealing with the literature, arts, culture, history and geography of the Spanish-speaking world. Review and expansion of the structures, grammatical features and linguistic functions of Spanish 5. Development of reading, writing, speaking and listening skills at the third intermediate level within the framework of language as a fundamental expression of culture.

SPAN 60A Spanish - Introductory Conversation (First Quarter) 3 Units

(Formerly Spanish 90A.)

Three hours lecture.

Practice of elementary speaking and listening skills in targeted language functions. Introduction to selected cultural, geographical and linguistic aspects of Spanish-speaking world areas.

SPAN 60B Spanish - Introductory Conversation (Second Quarter) 3 Units

(Formerly Spanish 90B.)

Prerequisite: Spanish 60A.

Three hours lecture.

Development and practice of elementary speaking and listening skills in targeted language functions. Further exploration of selected cultural, geographical and linguistic aspects of Spanish-speaking world areas.

SPAN 60C Spanish - Introductory Conversation (Third Quarter) 3 Units

(Formerly Spanish 90C.)

Prerequisite: Spanish 60B.

Three hours lecture.

Focus on greater structural accuracy and communicative competence in elementary speaking and listening skills. Continued exploration of selected cultural, geographical and linguistic features of Spanish-speaking world areas.

SPAN 61A Spanish - Intermediate Conversation (First Quarter) 3 Units

(Formerly Spanish 13A.)

Prerequisite: Spanish 3 (equivalent to three years of high school Spanish) or equivalent.

Three hours lecture.

Review and development of conversational skills in the targeted functions studied in first-year Spanish with attention to fluency, vocabulary, idiom, and pronunciation. Practice in conversational exchanges and strategies. Discussion of culturally relevant topics and situations.

SPAN 61B Spanish - Intermediate Conversation (Second Quarter) 3 Units

(Formerly Spanish 13B.)

Prerequisite: Spanish 4 (equivalent to four years of high school Spanish); or Spanish 61A; or equivalent.

Three hours lecture.

Continued practice and development of conversational skills in the targeted functions studied in first-year Spanish with increased attention to fluency, vocabulary, idiom, and pronunciation. Practice in conversational exchanges and strategies emphasizing improvisational skills. Discussion of culturally relevant topics and situations.

SPAN 61C Spanish - Advanced Conversation 3 Units

(Formerly Spanish 13C.)

Prerequisite: Spanish 5 or 61B, or equivalent.

Three hours lecture.

Continued practice and development of conversational skills in the targeted functions studied in first-year Spanish, with greater communicative competence. Increased control of conversational exchanges and strategies. Discussion of culturally relevant topics and situations.

SPAN 110A Elementary Spanish for the Health Professions (First Quarter) 3 Units

Three hours lecture.

Development and practice of elementary language skills in targeted language functions for the health professions, with Spanish as the primary language of instruction. Introduction to selected cultural, geographical and linguistic aspects of Spanish-speaking world areas relevant to these professional fields.

SPAN 110B Elementary Spanish for the Health Professions (Second Quarter) 3 Units

Advisory: Spanish 110A.

Three hours lecture.

Continued development and practice of elementary Spanish language skills useful to the health professional whose work entails communication situations with Spanish speakers. Linguistic functions and lexicon are targeted to these professional needs. Spanish is the working language of instruction, with emphasis on the further development of listening and speaking skills. Consideration given to a number of linguistic and geographical aspects of Spanish-speaking cultures relevant to the work of health professionals.

SPAN 110C Elementary Spanish for the Health Professions (Third Quarter) 3 Units

Advisory: Spanish 110B.

Three hours lecture.

Continued development and practice of elementary Spanish language skills useful to the health professional whose work entails communication situations with Spanish speakers. Linguistic functions and lexicon are targeted to these professional needs. Spanish is the working language of instruction, with emphasis on the further development of listening and speaking skills. Consideration is given to a number of linguistic and geographical aspects of Spanish-speaking cultures relevant to the work of health professionals.

Special Education

SPED 101	Special Projects for the Disabled	1/2 Unit
SPED 101W		1 Unit
SPED 101X		2 Units
SPED 101Y		3 Units
SPED 101Z		4 Units

Credit course - Does not apply to De Anza Associate degree.

Two hours lecture-laboratory for each unit of credit.

(Any combination of Special Education 101, 101W, 101X, 101Y and 101Z are repeatable as needed to meet Student Educational Contract (Title V, section 56029c).)

Pass-No Pass (P-NP) course.

Provides the student with a disability the opportunity for independent study; allows the flexibility for one to participate with a minimum amount of supervision in activities available in the community.

SPED 226	Work Adjustment	2 Units
SPED 226S		3 Units
SPED 226T		4 Units
SPED 226U		5 Units
SPED 226V		6 Units
SPED 226W		7 Units
SPED 226X		8 Units
SPED 226Y		9 Units
SPED 226Z		10 Units

Credit course - Does not apply to De Anza Associate degree.

Three hours laboratory for each unit of credit.

(Any combination of Special Education 226, 226S-Z are repeatable as needed to meet Student Educational Contract (Title V, section 56029c).)

Pass-No Pass (P-NP) course.

Development of essential work-related attitudes, behaviors, interpersonal skills, and work skills of adults with disabilities; individualized instruction and training to meet the skill level of each student in the support of the objectives identified in the Student Educational Contract.

SPED 227	Vocational Training	2 Units
SPED 227S		3 Units
SPED 227T		4 Units
SPED 227U		5 Units
SPED 227V		6 Units
SPED 227W		7 Units
SPED 227X		8 Units
SPED 227Y		9 Units
SPED 227Z		10 Units

Credit course - Does not apply to De Anza Associate degree.

Three hours laboratory for each unit of credit.

(Any combination of Special Education 227, 227S-Z are repeatable as needed to meet Student Educational Contract (Title V, section 56029c).)

Pass-No Pass (P-NP) course.

Intensive work skill training to increase independence of adults with disabilities, individualized instruction and training to meet the skill level of each student in support of the objectives identified in the Student Educational Contract.

SPED 240	Technology Access Evaluation for Special Needs Students	1/2 Unit
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(Formerly Special Education 140.)

Credit course - Does not apply to De Anza Associate degree.

One hour lecture-laboratory.

(Repeatable as needed to meet the Student Educational Contract (Title V, section 56029c).)

Pass-No Pass (P-NP) course.

Computer and technology access evaluation for students with physical disabilities, sensory impairments and/or learning disabilities. Appropriate access requirements will be individually determined in order to enable students to utilize computer technology.

SPED 245	Technology Access for Special Needs Students (Windows)	2 Units
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(Formerly Special Education 145.)

Credit course - Does not apply to De Anza Associate degree.

Four hours lecture-laboratory.

(Repeatable as needed to meet the Student Educational Contract (Title V, section 56029c).)

Development of basic skills in the use of computer access technologies to enhance the disabled student's ability to access and use microcomputer technology.

SPED 290X	Technology Access Practice for Special Needs Students	1/2 Unit
SPED 290Y		1 Unit

(Formerly Special Education 190X and 190Y respectively.)

Credit course - Does not apply to De Anza Associate degree.

Prerequisite: Special Education 240 or consent of instructor.

Three hours laboratory for each unit of credit.

(Any combination of 290X and 290Y may be repeated as needed to meet the Student Educational Contract (Title V, section 56029c).)

Individualized development of skills in the analysis and use of assistive technology in an adapted microcomputer laboratory.

SPED 294	Employment Support	2 Units
SPED 294U		3 Units
SPED 294V		4 Units
SPED 294W		5 Units
SPED 294X		6 Units
SPED 294Y		7 Units
SPED 294Z		8 Units

Credit course - Does not apply to De Anza Associate degree.

Three hours laboratory for each unit of credit. (One-half unit of credit is given for every twenty-five hours of paid employment.)

(Any combination of Special Education 294, 294U-Z are repeatable as needed to meet Student Educational Contract (Title V, section 56029c).)

Pass-No Pass (P-NP) course.

A program to enhance the potential for job success of the student with a disability; students receive necessary and appropriate follow-up and support services to ensure job retention.

Speech/Communication

Some courses in this department have prerequisites. Students who have not met these prerequisite requirements may be dropped from the course. Check with an advisor or the course instructor if you are unsure of your standing with regard to meeting prerequisite requirements.

SPCH 1	Public Speaking	4 Units
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(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

Theory and techniques of public speaking in a democratic society. An introduction to a variety of perspectives and approaches used to research, organize, deliver, and evaluate public presentations.

SPCH 7	Intercultural Communication	4 Units
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(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Intercultural Studies 7. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Study of intercultural communication in domestic and global contexts. Examines how differing cultures, languages, and social patterns influence the way members of groups relate among themselves and with members of other ethnic and cultural groups. Emphasizes development of interpersonal skills for communicating effectively across cultures and encourages appreciation of diverse cultural voices.

SPCH 8	Argumentation and Critical Inquiry in Oral Communication	4 Units
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(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A; Speech Communication 1 or 10.

Four hours lecture.

Prepare students to confidently, responsibly, and effectively engage in public and private discourse. Practice in the principles of critical inquiry, advocacy, and debate including analysis of propositions, research and testing evidence, advancing reasoned positions, and defending and refuting claims.

SPCH 9	Argumentation: Analysis of Oral and Written Communication	5 Units
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(See general education pages for the requirement this course meets.)

Prerequisite: English Writing 1A.

Advisory: Speech 1 or 10.

Five hours lecture.

Study of argumentation and critical thinking in the context of reading, discussion, and writing. Argumentation is studied as a mode of discourse aimed at critically testing the acceptability of a point of view through the use of inquiry, reasoning, and discussion with the goal of establishing reasonable and defensible arguments while addressing differences of opinion and working towards resolution.

SPCH 10	Fundamentals of Oral Communication	4 Units
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(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

An introduction to the basic principles and methods of oral communication with emphasis on improving speaking and listening skills in the multicultural contexts of interpersonal, small group, and public communication.

SPCH 15 Critical Decision-Making in Groups 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5; Speech 1 or 10.

Four hours lecture.

Study in communication and critical decision making in the context of effective group problem solving with an emphasis on principles of evidence, logic, and reasoning. Application of group discussion and management concepts along with methods of problem solving to understanding different points of view in an increasingly diverse and interconnected global society.

SPCH 16 Interpersonal Communication 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5; Speech 1 or 10.

Four hours lecture.

Study of interpersonal communication principles with an emphasis on developing the self concept through listening, verbal and nonverbal communication, language and cultural knowledge as a means maintaining effective relationships in an increasingly diverse and interconnected global society.

SPCH 60 Facilitating Collaborative Communication 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

Four hours lecture.

An introduction to the principles and practices of designing and facilitating meetings to improve the quality of public communication in the 21st Century.

SPCH 70 Effective Organizational Communication 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Business 80. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

A study of organizational communication concepts and theories. Impact of networks, superior/subordinate message patterns, team building, climate, cultural and gender influences, communication technology, ethics, and globalization on organizational effectiveness. Emphasizes development of communication skills useful for working productively in a dynamic, collaborative, multicultural work environment.

SPCH 77 Special Individual Projects in Speech Communication 1 Unit**SPCH 77X 2 Units****SPCH 77Y 3 Units****SPCH 77Z 4 Units**

(Formerly Speech 40, 40X, 40Y and 40Z respectively.)

Prerequisite: Consent of instructor and division dean.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours laboratory for each unit of credit.

(Any combination of Speech Communication 77, 77X, 77Y and 77Z may be taken up to six times for credit, not to exceed 15 units, as long as the projects are different each time.)

Specific projects related to the topic of speech communication.

SPCH 78 Special Topics in Speech Communication 1/2 Unit**SPCH 78W 1 Unit****SPCH 78X 2 Units****SPCH 78Y 3 Units****SPCH 78Z 4 Units**

(Formerly Speech 35, 35W, 35X, 35Y and 35Z respectively.)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

One hour lecture for each unit of credit.

(Any combination of Speech Communication 78, 78W, 78X, 78Y and 78Z may be taken up six times for credit, not to exceed 18 units, as long as the topics are different each time.)

Examination of selected topics relating to the Speech Communication discipline. Subject matter will vary. Some courses may involve a Service Learning component.

SPCH 79 Special Group Projects in Speech Communication 1 Unit**SPCH 79X 2 Units****SPCH 79Y 3 Units****SPCH 79Z 4 Units**

(Formerly Speech 47, 47X, 47Y and 47Z respectively.)

Prerequisite: Consent of instructor and division dean.

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Three hours laboratory for each unit of credit.

(Any combination of Speech Communication 79, 79X, 79Y and 79Z may be taken up to six times for credit, not to exceed 15 units, as long as the projects are different each time.)

Specific projects related to the topic of speech communication.

SPCH 96 Introduction to Peer Tutoring in Groups 2 Units

Prerequisite: Must be hired as a De Anza tutor.

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Learning Assistance 96. Student may enroll in either department, but not both, for credit.)

Two hours lecture.

Pass-No Pass (P-NP) course.

Introduction to the principles and practices of group tutoring. Development of effective communication and leadership skills to facilitate collaborative, dynamic and productive learning groups in a multicultural environment.

Technical Writing**TWRT 61 Introduction to Technical Writing 5 Units**

Prerequisite: English Writing 1A or English as a Second Language 5.

(Also listed as Business 61 and English Writing 61. Student may enroll in only one department for credit.)

Five hours lecture.

Technical writing skills focusing on basic techniques of exposition for the technical field, functional description, process writing, technical vocabulary, correct usage, and accurate editing.

TWRT 62 Survey of Technical Writing 5 Units

Prerequisite: Business 61 or English Writing 61 or Technical Writing 61 (may be taken concurrently).

(Also listed as Business 62 and English Writing 62. Student may enroll in only one department for credit.)

Five hours lecture.

Technical writing skills focusing on short document formats, production of sections of various technical documents, and incorporation of graphics within text.

TWRT 63 Technical Publications 5 Units

Prerequisite: Business 61 or English Writing 61 or Technical Writing 61.

(Also listed as Business 63 and English Writing 63. Student may enroll in only one department for credit.)

Five hours lecture.

Technical writing and editing skills applied through individual and group assignments with emphasis on planning, scheduling, and producing longer reports, manuals, and instructions. Development of organizational skills and individual documentation solutions.

TWRT 64 Technical Writing Seminar 5 Units

Prerequisite: Business 62 or 63; or English Writing 62 or 63; or Technical Writing 62 or 63.

(Also listed as Business 64 and English Writing 64. Student may enroll in only one department for credit.)

Five hours lecture.

Technical communication and editing skills applied through the preparation and presentation of a complete document according to the standards of the student's chosen technical field.

TWRT 66W Special Topics in Technical Writing 1 Unit**TWRT 66X 2 Units****TWRT 66Y 3 Units****TWRT 66Z 4 Units**

Prerequisite: Technical Writing 61 or Business 61 or English Writing 61.

One hour lecture for each unit of credit.

(Any combination of Technical Writing 66W, 66X, 66Y and 66Z may be taken up to six times for credit, not to exceed 18 units, as long as the topics are different each time.)

Intensive study and analysis of a special topic in Technical Writing. Subjects vary.

TWRT 67 Writing for Publication (Non-fiction) 4 Units

Advisory: Business 61 or English Writing 61 or Technical Writing 61.

Four hours lecture.

Students conduct on-line computer searches using the World Wide Web, organize, develop, and write non-fiction articles for publication; obtain feedback for revision; and submit articles to editors.

TWRT 71 Writing and Designing On-Line Documentation 2 Units

Advisory: Business 61 or English Writing 61 or Technical Writing 61.

Two hours lecture.

Differences between on-paper and on-line writing, on-line design methods, and use of commercially available on-line/hypertext development software. Development and implementation of on-line documentation project.

TWRT 77W	Special Projects in Technical Writing	1 Unit
TWRT 77X		2 Units
TWRT 77Y		3 Units
TWRT 77Z		4 Units

(Formerly Technical Writing 70W, 70X, 70Y and 70Z respectively.)
Prerequisite: Technical Writing 61 or Business 61 or English Writing 61.
 One hour lecture for each unit of credit.
 (Any combination of Technical Writing 77W, 77X, 77Y and 77Z may be taken up to six times for credit, not to exceed 18 units, as long as the projects are different each time.)
 Special research, writing, or study projects in Technical Writing as determined in consultation with the department chair, such as participating in a department approved internship or other project/assignment.

Television

(See *Film and Television Production*)

Theatre Arts

THEA 1	Appreciation of Theatre	4 Units
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(See general education pages for the requirement this course meets.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 Four hours lecture.
 An introduction to theatre from an audience perspective. Study of elements of dramatic art form and play production, including dramatic theory, language, space, plot, characterization, technical theatre, acting, directing, playwriting, design, and the relationship with other art forms. Includes drama written from diverse cultural and historical perspectives. Attendance at assigned performances required.

THEA 20A	Theory and Technique of Acting (Introduction)	3 Units
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Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 Six hours lecture-laboratory.
 (Any combination of Theatre Arts 20A, 20B and 20C may be taken up to six times for credit for the family of courses.)
 Basic theory and techniques of acting. An examination of the actor's range of choices within the framework of scenarios and improvisation. A beginning analysis of acting styles and methods from diverse cultural and historical perspectives.

THEA 20B	Theory and Technique of Acting (Modern Period)	3 Units
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Prerequisite: Theatre Arts 20A.
 Six hours lecture-laboratory.
 (Any combination of Theatre Arts 20A, 20B and 20C may be taken up to six times for credit for the family of courses.)
 A continued study of the acting process, including extensive participation in the performance of contemporary dramatic scripts from diverse theatre traditions.

THEA 20C	Theory and Technique of Acting (Classic Period)	3 Units
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Prerequisite: Theatre Arts 20A.
Advisory: Theatre Arts 20B.
 Six hours lecture-laboratory.
 (Any combination of Theatre Arts 20A, 20B and 20C may be taken up to six times for credit for the family of courses.)
 A continuation of acting study including extensive participation in the performance of selected scenes from classic period plays of diverse theatre traditions.

THEA 48	Technical Production for Dance and Theatre	2 Units
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(Formerly Theatre 58.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 (Also listed as Dance 48. Student may enroll in either department, but not both, for credit.)
 Four hours lecture-laboratory.
 (Any combination of Dance 58 and Theatre 48 may be taken up to three times as long as the topics/projects in musical drama, dance concert, etc. are different each time.)
 Introduction to the theoretical, technical and craft of dance and theatre production with practical experience in public presentation.

THEA 80A	Theory and Technique of Acting for the Camera	3 Units
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(Formerly Theatre Arts 86A.)
Prerequisite: Theatre Arts 20A.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

(Also listed as Film/Television 80A. Student may enroll in either department, but not both, for credit.)
 Six hours lecture-laboratory.
 (Any combination of Film/Television 80A and Theatre Arts 80A may be taken two times for credit as long as the topics/projects are different each time.)
 The basic fundamentals of acting for the camera are explored. Exercises, demonstrations and improvisations are used to practice the techniques of acting. Scenes are rehearsed, taped and critiqued.

THEA 80B	Theory and Technique of Advanced Acting for the Camera	3 Units
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(Formerly Theatre Arts 86B.)
Prerequisite: Theatre Arts 80A or Film/Television 80A.
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
 (Also listed as Film/Television 80B. Student may enroll in either department, but not both, for credit.)
 Six hours lecture-laboratory.
 (Any combination of Film/Television 80B and Theatre Arts 80B may be taken two times for credit as long as the topics/projects are different each time.)
 A continuation of Acting for the Camera through further exploration of equipment used in media performance: blue screen acting, ear prompting, teleprompting and microphone applications in voice recording and voice over. Continued exploration and skill building of techniques used in performance before the camera including but not limited to advanced character development, make-up techniques and special problems in character preparation for feature film.

THEA 143	Bay Area Theatre Visits	2 Units
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(Formerly Theatre Arts 153.)
Advisory: English Writing 1A or English as a Second Language 5.
 Six hours laboratory.
 (May be taken up to three times for credit as long as subject matter is different each time.)
 Pass-No Pass (P-NP) course.
 Designed to develop skills in viewing and critical analysis of live theatre events through attending theatre performances, tours and lectures.

Urdu

URDU 1	Elementary Urdu (First Quarter)	5 Units
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(Formerly Urdu 91.)
 (See general education pages for the requirement this course meets.)
Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
 Five hours lecture.
 Introduction to the language and cultures of the Urdu-speaking states. Basic speaking, listening, reading, and writing of Urdu will be introduced and practiced within a cultural framework. Urdu will be the primary language of instruction. Emphasis will be on language as an expression of culture. Language laboratory practice will be part of the regular instruction to reinforce pronunciation, grammar, syntax, conversation, understanding letters of the alphabet, joining words, and writing sentences.

URDU 2	Elementary Urdu (Second Quarter)	5 Units
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(Formerly Urdu 92.)
 (See general education pages for the requirement this course meets.)
Prerequisite: Urdu 1 (equivalent to one year of high school Urdu) or equivalent.
 Five hours lecture.
 Further development of material presented in Urdu 1. Continuation of introduction to the language and cultures of the Urdu-speaking states. Basic speaking, listening, reading, and writing of Urdu will be continued and practiced within a cultural framework. Emphasis will be on language as an expression of culture. Language laboratory will be practiced to reinforce pronunciation, grammar, and syntax. Furthermore, writing of the alphabet will be mastered and practice in joining Urdu letters will be reinforced.

URDU 3	Elementary Urdu (Third Quarter)	5 Units
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(Formerly Urdu 93.)
 (See general education pages for the requirement this course meets.)
Prerequisite: Urdu 2 (equivalent to two years of high school Urdu) or equivalent.
 Five hours lecture.
 Further development of material presented in Urdu 1 and 2. Completion of introduction to the language and cultures of the Urdu-speaking countries. Basic speaking, listening, reading, and writing of Urdu will be introduced and practiced within a cultural framework. Emphasis will be on language as an expression of culture. Language laboratory will be practiced to reinforce pronunciation, grammar, and syntax. A collection of short stories will be read and studied. Pakistani dramas will be a continued practice where students will view sections of the drama and predict outcomes of the story line based on cultural values.

URDU 4 Intermediate Urdu (First Quarter) 5 Units
(Formerly Urdu 94.)
(See general education pages for the requirement this course meets.)
Prerequisite: Urdu 3 (equivalent to three years of high school Urdu) or equivalent.
Five hours lecture.
 Reading and discussion of texts focusing on the literature, arts, geography, history, and culture of the Urdu-speaking world. Review of the linguistic functions and grammar structures of introductory Urdu. Development of reading, writing, speaking, and listening skills at the first intermediate level. Introduction to poetic and literary forms; such as short story, Ghazals, novellas, and contemporary writers' short non-fiction.

URDU 5 Intermediate Urdu (Second Quarter) 5 Units
(Formerly Urdu 95.)
(See general education pages for the requirement this course meets.)
Prerequisite: Urdu 4 (equivalent to four years of high school Urdu) or equivalent.
Five hours lecture.
 Reading and discussion of texts dealing with the literature, arts, geography, history and culture of the Urdu-speaking world. Review of the linguistic functions and grammar structures of intermediary Urdu. Development of reading, writing, speaking and listening skills at the second intermediate level.

URDU 6 Intermediate Urdu (Third Quarter) 5 Units
(Formerly Urdu 96.)
(See general education pages for the requirement this course meets.)
Prerequisite: Urdu 5 or equivalent.
Five hours lecture.
 Reading and discussion of texts dealing with the literature, arts, geography, history and culture of the Urdu-speaking world. Review of the linguistic functions and grammar structures of intermediary Urdu. Development of reading, writing, speaking and listening skills at the third-intermediate level.

Vietnamese Language

VIET 1 Elementary Vietnamese (First Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
Five hours lecture.
 Introduction to the Vietnamese language and culture. Development and practice of basic communication skills within a cultural framework. Emphasis on language as an expression of culture and a medium of communication. Language laboratory practice to reinforce intonation, pronunciation, grammar and syntax structures.

VIET 2 Elementary Vietnamese (Second Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: Vietnamese 1 (equivalent to one year of high school Vietnamese) or equivalent.
Five hours lecture
 Further development and practice of basic communication skills within a cultural framework. Emphasis on language as the primary expression of culture. Intensive oral and written practice focusing on listening and reading, speaking and writing skills to improve knowledge of vocabulary and grammar.

VIET 3 Elementary Vietnamese (Third Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: Vietnamese 2 (equivalent to two years of high school Vietnamese) or equivalent.
Five hours lecture.
 Further development and intensive practice of basic communication skills within a cultural framework. More emphasis on proper usage of Vietnamese in its spoken and written form. First introduction to popular sayings, literary texts for a better understanding and appreciation of Vietnamese language and culture, life and civilization.

VIET 4 Intermediate Vietnamese (First Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: Vietnamese 3 (equivalent to three years of high school Vietnamese) or equivalent.
Five hours lecture.
 Reading and discussion of texts dealing with the literature, arts, geography, history and the culture of the Vietnamese-speaking world. Review of the linguistic functions and grammar structure of first-year Vietnamese. Development of reading, writing, speaking and listening at the first intermediate level.

VIET 5 Intermediate Vietnamese (Second Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: Vietnamese 4 (equivalent to four years of high school Vietnamese) or equivalent.
Five hours lecture.
 Continuation of Vietnamese 4. Reading and discussion of texts, dealing with the literature, arts, and culture of the Vietnamese-speaking world. More review of the linguistic functions and grammar structures of first-year Vietnamese. Development of reading, writing, speaking and listening skills at the second intermediate level.

VIET 6 Intermediate Vietnamese (Third Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: Vietnamese 5 or equivalent.
Five hours lecture.
 Continuation of Vietnamese 5. Analysis and discussion of texts dealing with the literature, arts, and culture of the Vietnamese-speaking world. Complete review of the linguistic functions and the grammar structures of Vietnamese language. Development of reading, writing, speaking and listening skills at the third intermediate level.

Women's Studies

WMST 1 Introduction to Women's Studies 4 Units
(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5.
Four hours lecture.
 An examination of the varying positions of women in society, emphasizing the diverse nature of women's experiences. Includes investigation of family, work, embodiment, popular culture, and social movements. Focuses on power and gender roles and how they vary for women and men of different racial, ethnic, class, national and sexuality groups.

WMST 3C Women and Art 4 Units
(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5.
(Also listed as Arts 3TC. Student may enroll in either department, but not both, for credit.)
Four hours lecture.
 A history of women in relation to society and the visual arts from prehistory to the present. Social perceptions and obstacles relevant to women artists will be discussed, and students will engage in cross-cultural comparison of works produced in western and non-western cultures made by women, and in which women serve as subject matter.

WMST 8 Women of Color in the USA 4 Units
(See general education pages for the requirement this course meets.)
Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.
(Also listed as Intercultural Studies 8. Student may enroll in either department, but not both, for credit.)
Four hours lecture.
 An interdisciplinary, multi perspective and comparative study of the experiences of women of color in the United States. The constructs of race, ethnicity, class, gender and sexuality as they relate to social institutions and national ideologies will be explored. Examination and analysis of the historical, political, and economic influences that have informed the relationships between women of color and white women in the U.S.A, is foundational to this course.

WMST 9 Women in American History 4 Units
(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5.
(Also listed as History 9. Student may enroll in either department, but not both, for credit.)
Four hours lecture.
 Critical examination of the social, economic, cultural and political history of American women from the colonial times to the present. Emphasis on the movements which enhanced women's political and economic rights, the social roles which defined women primarily by their gender and the legal realities that women faced. Significant moral, political and economic issues will be assessed.

WMST 12 Psychology of Gender 4 Units
(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5.
(Also listed as Psychology 12. Student may enroll in either department, but not both, for credit.)
Four hours lecture.
 A survey of the psychobiological, cultural, social and intellectual factors influencing the psychology of gender.

WMST 15 Grassroots Democracy: Race, Politics and the American Promise 4 Units
(Formerly Women's Studies 53.)
(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5.
(Also listed as Social Science 15 and Women's Studies 15. Student may enroll in only one department for credit.)
Four hours lecture.
 Applied and theoretical study for students of social justice, this course will examine race, culture and contradictions in the ideal of the American Dream through a comparative analysis of American experiences of migration. Particular emphasis will be on the historical experiences of European immigrants, African Americans, Mexican Americans, and Asian Americans. The course will also discuss the contemporary social and cultural implications of the migration process. Using

a multidisciplinary social science approach, attention will be given to issues of race, ethnicity, gender, and class, as well as the role of the state (policy) to the process of immigration.

WMST 16 Grassroots Democracy: Social Movements Since the 1960s 4 Units

(Formerly Women's Studies 54.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Social Science 16 and Political Science 16. Student may enroll in only one department for credit.)

Four hours lecture.

Applied and theoretical learning for students of social justice, this course is a comparative survey of protest movements since the 1960's. An introductory, comparative, and interdisciplinary study of Mexican American, African American, Asian American, and white working class social and political struggles from 1960 to the present. The course traces the development of protest movements in response to racial, class, gender, and political inequality in the context of U.S. politics and history. The course critically examines the internal and external factors contributing to the rise and fall of social and political movements with special attention to the conjuncture of gender, race, ethnicity, culture, class, and sexual preference in contemporary U.S. politics.

WMST 17 Grassroots Democracy: Leadership and Power 4 Units

(Formerly Women's Studies 52.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Social Science 17. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

(See modules under Social Science/Women's Studies 52G-J.)

(Students who receive credit for the parent course, Social Science/Women's Studies 17, may not also receive credit for the modular courses, Social Science/Women's Studies 52G, 52H, 52I, or 52J.)

Applied and theoretical learning for students of social justice, this course is a multidisciplinary exploration of social change and popular democratic action with a focus on the meaning and development of political power in modern democracies. Topics to be explored include: institutional and mass forums for civic engagement, leadership development, mass recruitment and mobilization, consciousness development, democratic ethics, and strategic and tactical action.

WMST 21 Women in Literature 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as English Literature 21. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Intensive study of representative literary works by or about women including an analysis of different historical, cultural, and critical perspectives.

WMST 23 Literature and Masculinities 4 Units

(Formerly Women's Studies 63.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as English Literature 23. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Intensive study of representative literary works that highlight the role of men as writers, characters, subjects and readers, with attention to the relevant historical and cultural contexts of diverse masculinities.

WMST 28 Sociology of Women and Men 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Sociology 28. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Application of sociological perspectives to an understanding of gender. Focuses on how we come to think and act as men and women and on gender as an organizing principle of social life. Includes investigation of masculinities and femininities, gender socialization, gender inequality, how gender is shaped by race, class, nation and sexuality, and the family, media, education, economics, politics and religion as gendered institutions, from a cross-cultural and global perspective.

WMST 49 Women and Philosophy 4 Units

(Formerly Women's Studies 55.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Philosophy 49. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

Examination of feminist theory and philosophy produced by a diverse range of women and investigation of the ways that understandings of the relations between the sexes have influenced the work of philosophers from different cultures.

WMST 52G Grassroots Democracy: The Basics of Grassroots Organizing

2 Units

(Formerly Women's Studies 52A.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Social Sciences 52G. Student may enroll in either department, but not both, for credit.)

Two hours lecture.

(Students who receive credit for the parent course, Social Science/Women's Studies 17, may not also receive credit for Social Science/Women's Studies 52G. Additionally, students may only receive a maximum of four units credit for any combination of Social Science/Women's Studies 52G, 52H, 52I, and 52J. None of the modular courses are repeatable for credit.)

Explores the literature and practice of community, issue and electoral organizing as it has developed in the United States. Particular emphasis will be placed on theories and techniques of leadership development, mass mobilization, and strategic and tactical action arising out of such popular social movements as the labor movement, the civil rights movement, the women's movement, the gay rights movement, the peace movement, the environmental movement, the right-to-life and Christian evangelical movements, the anti-tax movement, and the student movement.

WMST 52H Grassroots Democracy: Critical Consciousness and Grassroots Organizing 1 Unit

(Formerly Women's Studies 52B.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Social Sciences 52H. Student may enroll in either department, but not both, for credit.)

One hour lecture.

(Students who receive credit for the parent course, Social Science/Women's Studies 17, may not also receive credit for Social Science/Women's Studies 52H. Additionally, students may only receive a maximum of four units credit for any combination of Social Science/Women's Studies 52G, 52H, 52I, and 52J. None of the modular courses are repeatable for credit.)

Examines the theories and methods of the development of a critical consciousness of civic participation and social protest as core elements of the practice of democracy in contemporary society. Particular emphasis will be placed on theories and techniques of consciousness raising developed in popular social movements dealing with labor rights, civil rights, women's liberation, gay rights, peace, the environment, abortion and reproductive choice, evangelical Christianity, taxes and student rights.

WMST 52I Grassroots Democracy: Leaders and Power 2 Units

(Formerly Women's Studies 52C.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Social Sciences 52I. Student may enroll in either department, but not both, for credit.)

Two hours lecture.

(Students who receive credit for the parent course, Social Science/Women's Studies 17, may not also receive credit for Social Science/Women's Studies 52I. Additionally, students may only receive a maximum of four units credit for any combination of Social Science/Women's Studies 52G, 52H, 52I, and 52J. None of the modular courses are repeatable for credit.)

Examines the role of leaders in the development of grassroots democratic movements. Particular emphasis will be placed on the tensions between centralization and decentralization, accommodation and conflict, and individual versus group action. Case studies will be drawn from a variety of popular social movements including but not limited to movements dealing with labor rights, civil rights, women's liberation, gay rights, peace, the environment, abortion and reproductive choice, evangelical Christianity, taxes and student rights.

WMST 52J Grassroots Democracy: Critical Consciousness and the Role of Leadership 1 Unit

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Social Sciences 52J. Student may enroll in either department, but not both, for credit.)

One hour lecture.

(Students who receive credit for the parent course, Social Science/Women's Studies 17, may not also receive credit for Social Science/Women's Studies 52J. Additionally, students may only receive a maximum of four units credit for any combination of Social Science/Women's Studies 52G, 52H, 52I, and 52J. None of the modular courses are repeatable for credit.)

Examines the role of critical consciousness in the development of leaders within grassroots democratic movements. Case studies will be drawn from a variety of popular social movements including but not limited to movements dealing with labor rights, civil rights, women's liberation, gay rights, peace, the environment, abortion and reproductive choice, evangelical Christianity, taxes and student rights.

FACULTY, STAFF and ADMINISTRATORS

Faculty

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Speech
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Biology
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Machine Tools
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Mathematics
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English as a Second Language
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Language Arts
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Child Development Center
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CALGHER, PAUL F. (1966)
Chemistry
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CHOW, KAREN (2002)
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CICHANSKI, MAREK (1998)
Geology
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History
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Nursing
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CLEAVELAND, CORRINE
Child Development Center

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Counselor, Career Center
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Physical Education
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DENNY, DAVID (1990) English B.A., California State University, Long Beach; M.F.A., University of Oregon; M.A.T., Fuller Theological Seminary.	FREEMAN, CLEVE (2009) Counselor B.A., California State University, Long Beach; M.S., San Francisco State University.	GRACIA, JORGE E. (1974) Spanish A.A., Laredo Junior College, Texas; B.A., Texas A. & I. University; M.Ed., M.A.T., Stanford University.	HERTLER, D. SCOTT (2002) Physical Education/Baseball Coach B.S., San Jose State University; M.A., St. Mary's College.
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DOLEN, THOMAS (2002) Library B.A., University of California, Santa Cruz; M.P.A., University of California, San Diego; M.L.S., Rutgers University.	GALLEGOS, VERNON (2004) Dance B.A., University of California, Los Angeles; M.A., California State University, Los Angeles.	GUEVARA, JORGE (1979) A.A., De Anza College; B.A., M.A., San Jose State University.	HRZYCK, CATHERINE (2000) Nursing B.A., University of Winnipeg, Canada; B.S.N., University of Saskatchewan, Canada; M.Sc.N., University of Western Ontario, Canada.
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FINK, BARBARA (1975) Mathematics B.S., City College of New York; M.S., Stanford University.	GLAPION, KEVIN (2001) Special Education B.A., University of New Orleans; M.S., Loyola University.	HASSETT, SHANNON (2007) Psychology B.A., California State University, Fullerton; M.A., California State University, Long Beach.	ISON, MILLIA (1990) Mathematics B.S., Shanghai Teachers College; M.A., State University of New York.
FISHER, GARY (1996) Chemistry B.S., Ph.D., University of California, Santa Cruz.	GLASMAN, ILAN (2008) Music B.A., University of California, Santa Barbara; M.A., San Jose State University; D.M.A., University of Southern California.	HATTORI, MARSHALL (2002) English B.A., M.A. University of California, Santa Barbara.	JENNINGS, VICKY (2002) Biology/Environmental Studies B.A., M.A., San Jose State University.
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		HERNANDO, HERMINIO (2001) Counseling B.A., University of Hawaii; M.A., New York University.	KARST, LAURA (2001) French B.A., University of California, Santa Cruz; M.A., San Jose State University.

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LARSON, MARK (2008) Manufacturing B.S., Sonoma State University.	LUNA WOO, SHIREEN (2000) Counseling B.A., California State University, Hayward; M.A., San Jose State University.	MILONAS, FAITH E. (1986) Counselor B.A., Westfield State College, Mass.; M.S., State University of New York; Ed.D., University of Nevada.	OLDHAM, IRA (1999) Computer Information Systems B.A., M.A., Oklahoma University; M.S., Ph.D., Carnegie Mellon University.
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LEE, MAE (2003) Intercultural Studies B.A., M.A., Stanford University; M.A., Ph.D., University of California, Santa Cruz.	MADDEN, LYDIA HEARN (2000) English B.A., M.A., University of California, Santa Barbara.	MOEN, LORRAINE (2001) Mathematics B.A., California Polytechnic State University, San Luis Obispo; M.S., California State University, Hayward.	OSBORNE, SCOTT (2004) Accounting B.A., University of California, Berkeley; M.B.A., Golden Gate University.
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- PERRY, JOHN W.** (1989)
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- PHILLIPS, JULIE** (1993)
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- PIERCE, DIANE** (2000)
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- PIERRE, ADRIENNE** (1999)
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- PLUM, KATHRYN S.** (1989)
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B.S., Montana State University;
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- POGGI, CLAUDINE** (1989)
English as a Second Language,
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B.A., William Smith College;
M.A., Boston College.
- QUINTERO, JESUS** (2007)
English
B.A., San Francisco State University;
M.F.A., University of San Francisco.
- RAFF, MARGO I.** (1980)
Counselor
B.A., University of Florida, Gainesville;
M.A., Michigan State University;
M.A., University of San Francisco.
- RAMIREZ, ANTONIO** (2007)
Philosophy
B.A., University of California, Santa
Cruz; M.A., Ph.D., Brown University.
- RAMSKOV, CHARLES** (1992)
Psychology
A.A., De Anza College;
B.A., San Jose State University;
M.A., University of California, Davis;
Ph.D., California Coast University.
- REBER, MARIETTA** (2002)
Technical Communication
B.A., M.A., Brigham Young University.
- REZA, JACQUELYN VALERIE** (1985)
Director of Professional and
Organizational Development
B.A., M.S.S., San Francisco State
University; B.S., Ahmadu Bello
University, Zaria Nigeria;
Ed.D., University of San Francisco.
- ROBERTS, BECKY** (2002)
English
B.A., M.A., University of California,
San Diego; Ph.D., University of
California, Santa Cruz.
- RODRIGUEZ, EUGENE** (1997)
Visual Arts
B.A., San Francisco State University;
M.F.A., Mills College, Oakland.
- SALAH, DAN** (2001)
Business
B.A., University of California, Berkeley;
M.B.A., University of Pennsylvania.
- SARTWELL, JULIE** (2000)
English
B.A., California Polytechnic State
University, San Luis Obispo;
M.A. San Francisco State University.
- SCHAFER-BRAUN, DEBI** (1976)
Physical Education
B.S., M.S., California State University,
Hayward.
- SCHAFER, KARL** (1989)
Mathematics
B.S., University of Alabama;
M.A., Ph.D., University of California,
Santa Cruz.
- SCHINSKE, JEFFERY** (2009)
Biology
B.S., B.A., University of California,
Los Angeles;
M.S., San Francisco State University.
- SEKHON, RUPINDER S.** (1985)
Mathematics
B.S., University of San Francisco;
M.A., San Francisco State University.
- SETZIOL, PAUL L.** (1981)
Music
B.M., M.M., D.M.A., University of
Oregon, Eugene.
- SHAGUNDEEP, KAUR** (2009)
Speech
B.A., M.A., Punjabi University.
- SHEIRICH, MONICA** (1997)
Vocational/Special Education
B.A., M.A., San Francisco State
University.
- SHERBY, MARK** (1996)
Computer Applications and
Office Systems
B.A., Stanford University;
M.A., San Jose State University.
- SHERWOOD, REBECCA A.** (1983)
Nursing
B.S.N., M.N., University of Florida;
D.N.Sc., Boston University.
- SHI, KEJIAN** (1998)
Mathematics
B.S., Sichuan Teacher's University,
Chengdu, China; M.S., Michigan
State University, East Lansing;
Ph.D., University of California, Davis.
- SHIRLEY, JEFFERSON** (2001)
Mathematics
B.S., M.A., Michigan State University,
East Lansing.
- SHIVELY, TIM** (2000)
English
B.A., Old Dominion University;
M.A., San Francisco State University.
- SILVA, PAULA** (2007)
English
B.A., University of California,
Santa Cruz;
M.A., San Francisco State University.
- SIMES, ALAN D.** (1989)
English/Composition
B.A., Santa Clara University;
M.A., University of Virginia.
- SINGH, KULWANT** (1990)
Physical Education
B.S., M.S., California State University,
Hayward.
- SINGH, SUKHJIT** (2001)
CIS
B.S., M.S., California State University,
Hayward;
M.S., Carnegie Mellon University.
- SKAGER, KRISTIN** (1999)
Reading
B.A., Humboldt State University;
M.A., San Francisco State University.
- SOLER, FRANCISCO DE P.** (1985)
Mathematics
B.S., University of New Mexico;
M.S., University of Oklahoma.
- SPANGGORD, DORIS** (1996)
Microbiology
B.S., San Francisco State University;
M.S., San Jose State University.
- SPENCER, SANDRA** (1997)
Business
B.A., University of California,
Berkeley; M.A., California State
University, Hayward.
- SPLITTER, RANDOLPH N.** (1989)
English/Composition
B.A., Hamilton College;
B.A., University of California,
Santa Cruz; Ph.D., University of
California, Berkeley.
- STASIO, DONNA D.** (1985)
Speech Communication
A.A., Columbia Junior College;
B.A., Stanislaus State College;
M.A., Washington State University.
- STEVENS, MARGARET L.** (1992)
History/Humanities
A.A., De Anza College; B.A.,
University of California, Berkeley;
M.A., San Jose State University.
- STOCKWELL, ROBERT** (2007)
Political Science
B.A., University of California,
San Diego; M.A., New School for
Social Research;
Ph.D., University of California, Irvine.
- STRINGER, DAVID D.** (1981)
Business
B.S., San Jose State University;
M.B.A., Golden Gate University,
San Francisco.
- SULLIVAN, KRISTIN** (2002)
Biology/Environmental Studies
B.S., M.S., San Jose State University.
- SULLIVAN, MARY** (2006)
Student Health Services Coordinator
B.S., University of Delaware;
M.S., San Jose State University.
- SUN, LI WEI** (2007)
Child Development
B.A., Fu-Jen Catholic University;
M.A., New York University;
Ed.D., Teacher's College.
- SWANNER, ALEXANDER** (2006)
Library
B.A., University of California,
Santa Cruz;
M.L.S., San Jose State University.
- TAKAHASHI, JANET** (1974)
Learning Disabilities
B.A., Mills College;
M.A., San Francisco State University.
- TAO, LAN** (2001)
Counseling
B.A., University of California,
Santa Barbara; M.S.W., California
State University, Long Beach.
- TAVERNETTI, SUSAN** (2001)
Film
B.A., University of the Pacific; M.A.,
University of Southern California.
- TIWANA, AMEETA** (2004)
Anthropology
M.A., Ph.D., Southern Illinois
University.
- TONG, HOMER H. C.** (1977)
Chemistry
B.A., Chico State University;
M.S. Oregon State University.
- TORRES, LAUREL** (1996)
Counseling
R.N., A.D.N., College of San Mateo;
B.A., University of California, Davis;
M.S., California State University,
Hayward.
- TURNER, WILLIAM** (1998)
Reading
B.A., M.A., California Polytechnic
State University, San Luis Obispo.
- VARGAS, NELLIE** (2007)
Child Development
B.S., Catholic University, Puerto Rico;
M.S., University of Wisconsin.
- VERNAZZA, LAWRENCE (PETE)** (1998)
Automotive Technology
A.A., De Anza College.
- WAGNER, DEBORAH** (2003)
Medical Technology
B.S., University of Iowa.
- WALTON, JOHN** (2004)
Automotive Technology
A.A., Cosumnes River College.
- WEISNER, KEN** (2000)
English
B.S., M.F.A., Ph.D., University of
California, Santa Cruz.
- WEST, LINDA** (1985)
Business Office Technology
B.S., M.A., San Jose State University.
- WETHINGTON, PAULINE** (2007)
Counseling
B.A., M.A., San Jose State University.
- WHITE, WENDY** (2004)
Humanities
B.A., California State University,
Dominguez Hills; Ph.D., University of
California, Santa Cruz.
- WONG, LETTY** (1992)
English as a Second Language
A.A., San Francisco City College;
B.A., M.A., San Francisco State
University.

Faculty/Administrators

WOOD, RICHARD (1996)
Sociology
B.A., M.A., West Virginia University.

WOODWARD, CHERYL (1986)
Counselor
B.A., M.A., San Jose State University.

YECKLEY, PAULINE (1986)
Library
B.A., M.A., Michigan State University;
M.A., University of Michigan.

YEE, LINDA (2007)
English as a Second Language
B.A., M.A., University of California,
Los Angeles.

YEN, ANN LEE
Child Development Center

YONES, SUSAN (2000)
Reading
B.A., University of San Francisco;
M.A., San Francisco State University.

YUEN, NICHOLAS GONZALEZ (1992)
Political Science
B.A., Carleton College; Ph.D., J.D.,
University of California, Berkeley.

ZARECKY, GARY (1983)
Physical Education
B.A., California State University,
Chico; M.A., Azusa Pacific.

ZAVODNICK, DEBORAH (1997)
Child Development Center
B.A., San Jose State University.

Administrators

BLINICK, CARON S. (1981)
Dean, Community Education
and Older Adult Studies
B.A., University of Illinois, Dekalb;
M.A., University of Wisconsin,
Madison.

CANTER, NANCY (1998)
Dean, Creative Arts
B.A., University of California, Irvine;
M.A., M.F.A., Claremont Graduate
University; Ed.D., University of
Southern California.

CASTILLO, CINDY (1977)
Director, Financial Aid and
Scholarships
B.A., San Jose State University.

COOK, STACEY A. (2010)
Vice President, Student Services and
Institutional Research
B.A., University of California,
Berkeley; M.P.A., California State
University, Hayward;
Ed.D., University of San Francisco.

DASILVA, EMANUEL
Manager, Custodial Operations

ESPINOSA-PIEB, CHRISTINA (1982)
Vice President, Instruction
B.S., University of Phoenix;
M.A., University of San Francisco.

GANNON, PATRICK (2002)
Director, Campus Center
Culinary Degree, Hospitality and
Administration, Dublin College of
Catering, Ireland.

HARADA, NAKO (2007)
Director, Child Development Center
B.A., University of the Sacred Heart;
M.A., San Francisco State University.

JEANPIERRE, LETHA L. W. (1987)
Vice President, Finance and
Educational Resources
B.S., M.B.A., University of Colorado.

JONES-DULIN, DONNA (2001)
Associate Vice President, Finance
and Educational Resources
B.A., American University, D.C.
M.A., San Francisco State University.

LEBLEU-BURNS, MICHELE (2007)
Dean, Student Development & EOPS
B.A., San Jose State University;
M.A., Santa Clara University.

MCFARLAND, RON (2009)
Dean, Business/Computer Science
B.S., B.A., M.B.A., University of
Phoenix; M.A., Western New Mexico
University;
Ph.D., Nova Southeastern University.

MENÉNDEZ, JOSE F. (1985)
Director, Printing Services
A.A., College of San Mateo.

MICHAELIS, MARGARET (2006)
Director, Budget and Personnel
A.A., Pierce College;
B.S., Pepperdine University.

MIESO, ROB (1994)
Director, Outreach and Relations
with Schools
B.A., National University; M.A., Ed.D.,
Fielding Graduate University.

MOBERG, KATHLEEN S. KIEHL (2006)
Dean, Admissions and Records
B.A., M.A., San Jose State University.

MONTGOMERY, JERI L. (2006)
Director, De Anza Bookstore

MURPHY, BRIAN (2004)
President
B.A., Williams College; M.A., Ph.D.,
University of California, Berkeley.

NORTE, EDMUNDO (2009)
Coordinator of Diversity; Institute of
Community and Civic Engagement
B.A., University of California, Irvine;
Ed.M., Harvard University.

ROSENBERG, JERRY
Dean, Physical Science/
Math/Engineering
B.A., B.S., Rutgers University;
M.S., University of Washington.

SCHROEDER, RICHARD V. (1984)
Dean, Physical Education
and Athletics
B.A., University of California,
Berkeley;
M.A., San Jose State University.

SHERMAN, STEPHANIE (1998)
Dean, Biological, Health and
Environmental Sciences &
Workforce, Applied Technologies
B.S., Stanford University;
M.S., D.V.M., Colorado State
University, Ft. Collins; M.P.H.,
Uniformed Services University for the
Health Services, Bethesda, Md.

SPATAFORE, MARISA (2006)
Director, Marketing and
Communications
B.S., West Virginia University;
M.A., San Francisco State University.

TOMANENG, ROWENA M. (1996)
Associate Vice President, Instruction
B.A., University of California, Irvine;
M.A., University of California,
Santa Barbara.

VACANT
Dean, Intercultural/
International Studies

VACANT
Dean, Language Arts

VACANT
Dean, Library/Learning Resources

VILLALBA, KAREN ARLENE (2006)
Assistant Director,
Child Development Center
A.A., De Anza College;
B.A., Pacific Oaks College.

WILKINS-GREENE, CAROLYN (1989)
Dean, Social Sciences and
Humanities
B.Mus., University of Texas, Austin;
M.A., Stanford University.



Emeriti Faculty/ Administrators

ABEL, BARBARA
Child Development Center

ADAMY, GEORGEANNE (1989-2002)
Nursing
B.S., Arizona State University;
M.S., University of Maryland.

ALEXANDER, D. MURRAY (1960-1986)
Physics
B.S., St. Andrews University; M.S.,
California Institute of Technology.

ALLAN JR., JOHN (1974-2001)
Machine Technology
A.A., Santa Rosa Junior College;
Journeyman Research Machinist,
Credential, University of California,
Berkeley;
B.A., San Jose State University.

ALLEN, ROBERT R. (1961-1993)
Division Dean, Biology
and Health Science
A.A., City College of San Francisco;
B.A., University of California,
Berkeley;
M.A., San Francisco State University.

ARAKI, JOANNE M. (1989-2005)
Nursing
B.S.N., University of Hawaii;
M.S.N., San Jose State University.

AVERY, CHRIS (1966-2002)
Mathematics
A.A., College of Marin;
B.A., M.S., San Jose State University.

AZLANT, EDWARD (1987-2000)
Film/TV
B.A., M.A., University of California,
Berkeley;
Ph.D., University of Wisconsin.

BARKER CHARLES B. (1969-1999)
Mathematics
B.A., M.A., University of California,
Los Angeles.

BARNETT, DONALD C. (1968-1997)
Dean, Language Arts
B.A., M.A., University of Michigan.

BARTUNEK, CAROL R. (1975-1998)
Religious Studies
A.A., Foothill College;
B.A., San Jose State University;
M.Div., American Baptist Seminary.

BEAN, ROBERT H. (1969-1984)
Business
A.A., Evanston Junior College;
B.A., M.A., San Jose State University.

BENDIGHEIT, HAROLD E. (1969-1993)
Biology
B.S., Elmhurst College; M.S., Ph.D.,
Illinois Institute of Technology.

BERNASCONI, ROBERT A. (1962-1989)
English/Philosophy
B.A., M.A., University of California,
Los Angeles.

BERRY, FRANK W. (1969-2002)
English
A.B., University of Michigan;
M.A., San Francisco State University.

BOGUS, SDIANE (1990-2001)
English
B.A., Stillman College;
M.A., Syracuse University;
Ph.D., Miami University.

BOTHMAN, RICHARD W. (1988-1995)
Administration of Justice
B.A., M.S., San Jose State University.

BOWER, JOAN (1975-1990)
Older Adult Services
B.A., M.S., San Jose State University.

BRESNAN, PATRICK S. (1967-2009)
History
B.S., Loyola University, Chicago;
M.A., Northwestern University.

BRESSOUD, EDWARD F. (1967-1990)
Division Dean, Physical Education
A.A., Los Angeles City College; B.S.,
University of California, Los Angeles;
M.A., San Jose State University.

BROCK, ROBERT E. (1968-1991)
English
B.A., Gonzaga University;
M.A., Stanford University.

BRUCE, KENNETH R. (1968-1995)
History
A.B., M.A., San Jose State University.

BUCK, DONALD E. (1966-1991)
History
B.S., California Maritime Academy;
B.A., San Diego State University;
M.A., University of California,
Berkeley.

BURCHELL, DONALD S. (1963-1990)
Computer Information Systems
B.A., Fresno State University;
M.A.T., Colorado State University.

BURLING, EDWIN (1968-2002)
Biology
B.A., University of California, Santa
Barbara; M.A., Dartmouth College.

BUSHNELL, W. GLEN (1960-2000)
Counselor, Business,
Coordinator Saturday Classes
B.S., Brigham Young University;
M.S., University of Utah;
M.A., Stanford University.

CAMPBELL, DAVE (1998-2005)
Accounting
B.S., La Salle College;
M.B.A., San Jose State University;
Ph.D., La Salle University.

CANTRELL, JOSEPH E. (1984-1997)
Business
B.S., Oklahoma State University;
M.B.A., Stanford University.

CHAN, KWAN H. (1974-2004)
Library
B.S., Hong Kong University;
M.L.S., University of New York;
M.Ed., North Adams State College,
Massachusetts; Ph.D., United States
International University.

CHEESEMAN, DOUGLAS T. (1967-1997)
Biology
B.A., M.A., San Jose State University.

CHESLER, PAUL B. (1977-2006)
Social Sciences
B.S., University of Wisconsin;
M.A., San Jose State University,
Education (Early Child Ed.).

CHUDILOWSKY, BARBARA K. (1985-2001)
Mathematics
B.A., San Francisco State University;
M.S., San Jose State University.

CICERONE, MARCOS (1977-2008)
Director, Staff Development
B.A., New York University;
M.A., National University of Mexico.

CLEVELAND, WILLIAM (1968-2003)
Humanities
B.F.A., M.F.A., Texas Christian
University.

CLUNIE, ROBERT K. (1970-1991)
Sociology
A.A., Yuba College;
B.A., San Jose State University;
M.C.P., University of California,
Berkeley;
M.A., San Jose State University.

COLEMAN, JOSE M. (1963-1987)
Spanish
B.A., M.A., University of California,
Berkeley.

COLTRIN, DOROTHY M. (1970-2003)
Nutrition
B.S., University of California,
Berkeley; M.S.P.H., University of
California, Los Angeles.

COLVARD, JOYCE A. (1975-2004)
Computer Applications
and Office Systems
B.S., University of Tennessee;
M.S., North Texas State University.

COOLIDGE, FRANCES E. (1966-1978)
Reading Improvement Study Skills
A.A., Stockton Junior College;
B.A., M.A., College of the Pacific;
M.A., San Jose State University.

COOPER, MICHAEL J. (1969-2004)
Art
B.A., M.A., San Jose State University;
M.F.A., University of California,
Berkeley.

CRAMPTON, CHARLES L. (1959-1989)
Physical Education
B.A., M.A., San Jose State University.

CROFT, DOREEN J. (1967-1989)
Early Childhood Education
A.A., Yuba Junior College;
A.B., Stanford University;
M.A., San Francisco State University.

CUMMINGS, GARY (1969-1995)
English
B.A., Portland State College;
M.A., University of Oregon.

CUNY, ANN WHARTON (1975-1993)
P.E./Recreation
A.A., Monterey Peninsula College;
B.A., M.S., San Jose State University;
Ph.D., United States International
University.

CUSTODIO, JAMES G. (1972-1995)
Counselor
A.A., City College of San Francisco;
B.A., M.A., San Francisco State
University.

DAVIES, DAVID H. (1966-1993)
Mathematics
B.A., Western Washington State
College;
M.A.T., San Diego State University.

DEAN, SUSAN L. (1991-2007)
Mathematics
B.A., University of California,
Santa Barbara;
M.A., University of Santa Clara.

DEHART, RENA (1968-1997)
Director, Office of
Relations with Schools
B.A., University of California,
Santa Barbara; M.A., University of
California, Berkeley.

DESLOSNE, ROSALIE E. (1972-2004)
Biology
B.S., Fisk University;
M.S., Howard University.

DOUGHERTY, CHARLES S. (1977-2008)
Physical Education
B.A., San Jose State University;
M.A., M.S., San Jose State University;
M.A., U.S. Coast Guard;
Ph.D., University of Iowa.

DOWDNEY, DONNA (1990-2001)
Chair, Technical
Communication Department
B.A., Wheaton College;
M.A., Indiana University;
Ph.D., Columbia Pacific University.

DRESSLER, FRANCES R. (1971-1992)
Sociology/Psychology
A.A., College of Sequoias;
B.A., Fresno State University;
M.A., Syracuse University; Ph.D.,
United States International University.

DRUEHL, GREGORY (1978-2008)
Political Science
B.A., Stanford University;
M.A., San Francisco State University;
Ed.D., University of San Francisco.

DUNBAR, MAURICE V. (1977-1998)
English
A.A., Compton Junior College; B.A.,
University of California, Berkeley;
M.A., Sacramento State University.

DUNIVIN, J. D. (1964-1999)
Sociology
B.A., M.A., San Jose State University.

DUNKLEMAN, ELEANOR (1974-1992)
Nursing
Nursing Diploma, Jefferson Medical
College Hospital, Philadelphia, Pa.;
B.S., University of California,
Los Angeles;
M.S., San Jose State University.

DUNN, LESTER R. (1966-1998)
Physics
B.A., Lake Forest College;
M.S., Illinois Institute of Technology.

EDWARDS, JAMES D. (1965-1999)
Political Science
B.A., Occidental College;
M.A., Claremont Graduate School.

EKNOIAN, GERALD (1968-1992)
Art
B.S., University of California,
Los Angeles;
M.A., in Painting, University of
California, Berkeley; M.A., in Art
History, San Jose State University.

ELDER, CHARLES L. (1968-2004)
Physical Education
B.A., M.A., San Jose State University.

EMERICK, PAUL L. (1970-1989)
Computer Information Systems
B.M.E., Rensselaer Polytechnic
Institute; B.S.C., Salmon P. Chase
College, Cincinnati, Ohio;
M.B.A., Xavier University.

ENGLE, MICHAEL L. (1975-2008)
Machine Tools
A.A., San Mateo College, Journeyman
Tool & Die Maker; Credential,
University of California, Berkeley.

EPSTEIN, THELMA R. (1978-2000)
History
B.A., Southern Methodist University;
M.A., Sacramento State College;
M.A., Santa Clara University.

ESPINOLA, JUDITH (1986-1996)
Theatre Arts
B.A., Emerson College;
M.A., Oklahoma University;
Ph.D., Northwestern University.

ESTER, DONALD (1969-1992)
Geology
B.S., University of Alaska;
M.S., Stanford University.

FENG, JAMES (1992-1996)
Physical Science
B.A., National Chengchi University;
M.A., University of Washington.

Emeriti Faculty/Administrators

Emeriti Faculty/Administrators

- FINSTON, GLORIA** (1975-2001)
Learning Disabilities Specialist
B.A., Earlham College, Richmond, Ind.; M.A., University of Santa Clara.
- FLEMING, JOHN N.** (1980-2007)
English as a Second Language
A.A., Pasadena City College; B.A., University of California, Berkeley; M.A., San Jose State University.
- FOROUZAN, BEHROUZ A.** (1991-2009)
Computer Information Systems
B.S., University of Tehran; M.S., University of California, Irvine.
- FORSYTH, TONI M.** (1991-2009)
English/Composition
B.A., M.A., California State University, Los Angeles; Ph.D., University of California, Los Angeles.
- FOY, RUTH** (1970-2001)
Coordinator, Health Services
B.S.N., Georgetown School of Nursing.
- FREDERICK, VIVIAN R.** (1975-1991)
Computer Information Systems
A.A., Ashland Jr. College, Ashland, Kentucky; B.A., Eastern Kentucky State Teachers College; M.S., San Jose State University.
- FUNG, DONNA I.** (1975-2009)
Counseling
B.S., M.A., San Jose State University.
- GARCIA, PAULA** (1976-2008)
Child Development Center
B.A., M.A., San Jose State University.
- GATES, ELMER C.** (1966-1993)
Physical Education
B.S., M.S., Indiana University.
- GILBERG, RICHARD F.** (1991-2001)
Computer Information Systems
B.A., San Jose State University; M.S., National University.
- GOLDSBERRY, JAMES** (1970-1999)
English
B.A., M.A., San Diego State University.
- GRAHAM, DONALD** (1963-1999)
Geography
A.A., Glendale College; B.S., M.S., University of Oregon.
- GRAME, CARL A.** (1964-1993)
Computer Information Systems
B.S., Rider College; M.B.A., University of Santa Clara, Certificate in Data Processing.
- GRAY, WINSTON GRANT** (1975-1991)
Theatre Arts, Dance
B.S., Delta State College, Cleveland, Mississippi; M.A., San Francisco State University; Ph.D., University of Utah.
- GRAY, ZENA** (1975-2009)
B.A., University of California, Los Angeles; M.A., College of Notre Dame.
- GREEN, PHILLIP S.** (1989-2010)
Automotive Technology
A.A., De Anza College; B.A., San Jose State University.
- GREENE, CAROLE** (1964-2003)
English
B.F.A., M.A., San Jose State University; M.F.A., John F. Kennedy University; B.A., M.A., University of California, Los Angeles.
- GRIFFIN, ROBERT E.** (1994-2008)
Vice President, Student Services and Institutional Research
B.A., M.S., San Jose State University; Ed.D., University of LaVerne.
- GULASSA, CYRIL M.** (1967-1997)
English
B.A., St. Joseph's College; M.A., University of California, Berkeley.
- HALSEY, HAYWARD (TUCK)** (1968-1998)
Physical Education
B.A., M.A., San Jose State University.
- HAM, LEWIS H., JR.** (1979-1994)
Director, Admissions and Records
B.S., United States Military Academy, West Point; M.A., University of Texas.
- HAMER, REGINALD** (1985-2010)
Mathematics
B.S., Lowell University, Mass.; M.S., Ph.D., New York University.
- HAMES, JOANNE** (1989-2004)
Paralegal/Administration of Justice
B.A., J.D., Santa Clara University.
- HAMLIN, DOROTHY C.** (1967-1988)
Early Childhood Education
B.A., University of Vermont.
- HANLEY, JAMES R.** (1973-2004)
Political Science
B.A., M.A., San Jose State University.
- HANSEN, ELOISE** (1963-1987)
Medical Assisting
B.A., M.A., Fresno State University.
- HARPER, KENNETH** (1992-2004)
Accounting
A.A., Mesa Community College, B.S., California Polytechnic State University; M.P.A., University of San Francisco.
- HARPER, LAURI M.** (1974-2001)
Counselor
A.A., College of Marin; B.A., University of California, Santa Barbara; M.A., Stanford University.
- HARRIS, JOYCE C.** (1985-2001)
Computer Information Systems
B.S., Stanford University; M.S., University of California, Los Angeles.
- HART, THOMAS A.** (1973-1988)
Music
B.A., M.A., San Francisco State University.
- HAY, EDWARD A.** (1961-1995)
Geology
B.A., M.A., University of California, Berkeley.
- HENDERSON, BRUCE** (1997-2010)
English
B.A., M.A., English, San Francisco State University; Ph.D., Stanford University.
- HENDRICKSON, MARY E.** (1984-1999)
Business and Computer Information Systems
B.A., Hamline University; M.S., San Francisco State University.
- HENDRY, JOYCE M.** (1971-1981)
Art
B.A., M.A., San Jose State University.
- HERMAN, SONDR A.** (1966-1992)
History, Political Science
B.A., Barnard College; M.A., Ph.D., Rutgers University.
- HOEFER, LEO A.** (1977-1993)
Older Adult Services
B.A., St. Patrick College; B.A., San Francisco State University; Ph.D., University of Washington.
- HOLLER, MICHAEL** (1970-2006)
Film/TV
A.A., Chaffey College; B.A., M.A., Humboldt State University.
- HOOKS, SYLVIA** (1975-2004)
Physical Education
B.S., Central State University, Wiberforce, Ohio; M.A., Stanford University.
- HOWARD, CAROL M.** (1968-1997)
Counselor
B.A., Regis College; M.Ed., Boston University.
- HUBBS, ROBERT R.** (1963-2001)
Chemistry
B.S., Western Illinois University; M.S., Purdue University.
- HUNTER, EBENEZER** (1970-2010)
African American Studies
B.A., M.A., San Jose State University.
- HUNTIMER, LINDA** (1973-2006)
Learning Disabilities
B.A., M.A., Arizona State University; Ed.D., University of San Francisco.
- JOHNSON, JUDITH** (1988-2004)
Center for Applied Competitive Technologies
B.A., The College of Charleston; M.A., Webster University.
- JONES, HELEN B.** (1974-1997)
Instructor/Enabler, Physically Limited Program
A.A., Boston University; B.A., University of Illinois; M.A., Hunter College, New York.
- JONES, RUTH**
Child Development Center
- JURIKA, LILLIAN U.** (1978-1999)
Counselor
B.A., University of San Diego; M.A., Stanford University, English; M.A. San Jose State, Counseling; San Jose State University Certificate, Applied Social Gerontology.
- KEEN, CAROLYN M.** (1962-1999)
English
B.A., M.A., Stanford University.
- KELLER, INGRID** (1963-1992)
German
A.A., Pasadena City College; B.A., Occidental College; M.A., Stanford University.
- KENDALL, SHIRLEY** (1995-2007)
Professional & Workforce Development
B.A., University of Southern California; M.A., National University.
- KEPLINGER, MIREILLE G.** (1966-1991)
French
A.A., Monterey Peninsula College; Baccalaureat-Philosophie-Letters, University de Grenoble; B.A., M.A., San Jose State University.
- KLANG, ROBERT** (1970-1997)
English
B.A., M.A., San Francisco State University.
- KLINT, GLORIA (JEAN)** (1998-2007)
Child Development Center
B.S., University of Utah; M.A., California State Polytechnic, Pomona.
- KODA, ANN Y.** (1986-2001)
Computer Applications and Office Systems
B.A., University of California, Berkeley; M.A., San Jose State University.
- LANDRY, MARGARET M.** (1977-1992)
Child Development Center
A.A., De Anza College; B.A., University of California, Santa Barbara.
- LASSERRE, YVETTE M.** (1991-2001)
French
A.A., De Anza College; B.A., M.A., San Jose State University.
- LAU, PHILIP K. C.** (1972-2007)
Psychology
B.A., San Francisco State University; M.S.W., University of California, Berkeley.
- LEAVITT, MURRAY P.** (1965-1994)
Business
B.A., University of Missouri; M.B.A., Long Island University; M.A., Teacher's College, Columbia University; Ed.D., University of California, Berkeley.
- LEIGH, ROBERT J.** (1972-2003)
Automotive Technology
B.A., M.A., San Francisco State University.
- LETSON, ROGER L.** (1979-2007)
Music
B.M.Ed., M.M., University of Montana.
- LEWIS, WILLIAM G.** (1968-2003)
Automotive Technology
B.A., M.A., San Jose State University; Journeyman Machinist.
- LINTHICUM, JAMES A.** (1965-2004)
Physical Education
B.S.Ed., Ohio University; M.S., University of Colorado.
- LOGAN, GEORGIA H.** (1961-1992)
English
B.A., Oberlin College; M.A., Stanford University.
- LOMAX, C. RANDY** (1971-2009)
Counselor
B.A., M.A., San Jose State University.
- LOPEZ-MORGAN, CHRISTINA A.** (1988-2010)
Social Sciences
A.A., Los Angeles City College; B.A., M.A., Pacific Oaks College.
- LUCAS, JAMES S.** (1975-2000)
B.A., M.A., San Francisco State University; Ed.D., University of California, Berkeley.
- LUOTTO, JAMES A.** (1966-2001)
English
B.A., University of Notre Dame; M.A., Ph.D., Loyola University, Chicago.
- LUPI-WILLIAMS, FRANCES** (1970-1991)
Physical Therapist Assisting
B.S., University of the State of New York; M.A., Stanford University.
- LYON, LOUISE** (1970-1998)
Biology
B.A., University of California, Berkeley; M.A., University of Wisconsin.
- MACDONALD, JAMES D.** (1964-1993)
Chemistry
B.S., University of Colorado; M.S., San Jose State University.
- MANRIQUEZ, NAPOLEON H.** (1977-2006)
Director, Assessment Center
B.A., San Jose State University; M.A., Ph.D. Stanford University.
- MAREK, WALTER W.** (1971-1987)
Automotive Technology
Cred. Bus. Mgmt., Foothill College; A.A., De Anza College; Credential, University of California, Berkeley; B.V.E., San Jose State University.
- MAZZUCA, ROBERT G.** (1981-2001)
Physical Education
B.A., College of the Pacific; M.A., University of the Pacific.

Emeriti Faculty/Administrators

MCDONNELL, BARBARA (1975-1991) Early Childhood Education B.A., M.A., San Jose State University.	O'BRIEN, FAY (1967-1993) Acting Executive Head, Allied Health and Nursing Diploma, French Hospital, San Francisco; A.B., San Francisco State University; M.A., College of the Holy Names, Oakland, California.	RAMIREZ, OSCAR (1973-1993) Vice President, Administrative Services B.A., M.A., Fresno State University; Ph.D., United States International University.	SKYLES, WILLIAM V. (1962-1989) English B.A., De Paul University; M.A., University of Chicago.
MILTON, JOHN (1970-2005) English B.A., M.A., San Francisco State University.	ODLE, CHARLES R. (1965-1999) Mathematics B.A., Fresno State University; M.A.T., San Diego State University.	RAPPAPORT, STEVEN D. (1974-2007) Philosophy/Economics A.B., University of California, Berkeley; M.A., San Jose State University; Ph.D., University of Toronto, Canada.	SMITH, DALLAS J. (1967-1989) Counselor A.A., Fullerton Junior College; B.A., University of California, Santa Barbara; M.A., San Francisco State University; M.S., California State University, Fullerton.
MITCHELL, GLORIA (1976-2004) Psychology A.A., Foothill College; B.A., San Jose State University; M.A., Santa Clara University.	O'DONNELL, DANIEL J. (1968-1995) Computer Information Systems B.S.C., M.B.A., University of Santa Clara.	RASHALL, BENITA (1977-2008) Physically Limited Counselor/Enabler B.S., University of California, Berkeley; M.S., San Francisco State University.	SMITH, ELEANOR A. (1968-1989) Counselor A.A., Green Mountain College; B.S., University of New Hampshire; M.S., University of Colorado.
MOLANDER, MARK L. (1968-2003) English B.A., M.A., Colorado State College.	ONEY, ANNE W. (1985-1999) Dean, Business and Compute Science Division B.A., Cornell University; M.A., San Jose State.	REDD, JANET F. (1968-2002) Librarian, Collection Development/ Technical Services B.A., M.L.S., University of California, Berkeley; M.A., San Jose State University; Ph.D., Stanford University.	SMITH, WENDY (1989-2004) Child Development Center B.S., Pennsylvania State University; M.Ed., University of Pittsburgh.
MOORE, THOMAS O. (1966-1998) Mathematics B.S.E.E., University of California; M.A., San Francisco State University.	OSTWALD, VENICE E. (1967-1987) Library A.B., University of Colorado; M.S., University of Southern California.	REID, BARBARA (1977-1989) Vice President, Instruction B.A., State University of Iowa; M.A., Ed.D., University of Northern Colorado.	SPENCER, LEROY G. (1975-2000) Automotive Technology
MORENO, MOSES S. (1972-1993) Chicano Studies A.A., Chaffey College; B.A., M.A., Stanford University.	PABON, TONY (1981-1997) Mathematics A.B., M.S., California State University, Los Angeles.	REID, JOHN J. (1964-1989) Engineering B.S., University of New Mexico; M.S., Oklahoma State University.	SPENCER, WILLIAM A. (1976-2001) Language Arts B.S., Louisiana Southern University; M.A., San Francisco State University.
MOSTYN, CHARLES R. (1966-1986) Business B.S., Armstrong Business College; B.A., Humboldt State University; M.A., San Jose State University.	PATTERSON, NORMA (1971-1986) Nursing B.S., University of Oregon; M.S., University of California.	RESSA, GARY (1967-1997) Counseling B.S., San Jose State University; M.A., Stanford University.	STANGA, FRANCES B. (1969-1990) Counselor B.A., Maryhurst College, Oregon; M.S., University of Oregon.
MOWREY, JUDITH M. (1986-2010) Library B.A., Oklahoma Baptist University; M.A., San Francisco State University; M.L.S., University of Oregon.	PECORARO, SALVATORE P. (1968-1997) Art A.B.Ed., California College of Arts and Crafts; M.A., San Francisco State University.	RIESE, TED (1969-1999) English B.A., University of California, Berkeley; M.A., San Francisco State University.	STANN, SUSAN S. (1988-2007) English as a Second Language TESOL Certificate - Linguistics, San Jose State University; B.A., M.A., University of Michigan.
MUHLSTEIN, ELEANOR A. (1983-2002) Teacher, Child Care Program B.A., San Jose State University.	PERATA, DONALD A. (1966-1996) Vice President, Student Services; Interim Chancellor B.A., M.A., San Jose State University.	RICE, GEORGE A. (1975-2004) Computer Information Systems B.S., Stanford University.	STEINKE, RALPH (1987-1998) Dean, Learning Resources B.S., Anderson College; M.A., Ball State University; M.L.S., Indiana University.
MULLEN, WILLIAM (1972-1999) Automotive Technology B.A., University of Denver.	PETERSON, DENNIS E. (1968-1997) Biology Division Dean, Biological and Health Sciences (acting) B.A., M.S., Brigham Young University.	ROSE, THORA E. (1962-1983) Nursing Kahler School of Nursing, Rochester, Minnesota; B.S., M.Ed., University of Minnesota.	STEMLER, ANN B. (1977-2004) Biology B.S., M.S., Ph.D., University of Illinois.
NAKASHIMA, WENDY (1982-1997) Child Development Center B.S., Miami University; M.S., Case- Western Reserve University.	PHILLIPS-PROUTY, BARBARA J. (1964-1993) Counseling, Physical Education B.S., Wheaton College; M.A., Colorado State College.	ROSSI, DONALD E. (1969-2000) Mathematics A.B., University of California, Berkeley; Ed.M., Harvard University; M.A., University, Berkeley.	STEPHENS, CHARLES L. (1964-1986) Physics B.A., Occidental College; M.A., Stanford University.
NASH, JULIE S. (1974-1993) Sociology, Science A.A., Stephens College, Columbia, Missouri; B.A., University of Colorado; M.A., San Jose State University; M.A., Santa Clara University; Ph.D., United States International University.	PICHON, ULYSSES A. (1975-2009) English/Reading B.S., Xavier University of Louisiana; M.A., San Jose State University.	ROWE, JAMES K. (1968-1996) Counselor A.B., Occidental College; M.A., Stanford University.	STERN, DEBORAH R. (1986-2008) B.A., University of California, Berkeley; M.S., California State University, San Francisco.
NELSON, ALICE (1987-2004) Computer Applications and Office Systems A.A., Canada College; B.A., M.B.A., San Francisco State University.	PIFFERINI, ROBERT M. (1959-1990) Physical Education B.A., M.A., San Jose State University.	SANDELMAN, PEARL B. (1975-1992) Business B.A., M.A., San Jose State University.	STERNLIEB, MYRA B. (1975-1999) Nursing/Health R.N., B.S.N., Ohio State; M.S., San Francisco State.
NELSON, SHARON S. (1976-2003) Hope-De Anza Vocational Program B.A., Augustana College, Illinois.	POTTER, LEROY C. (1965-1993) Engineering B.S., Drexel Institute of Technology; M.S., Stanford University.	SAVAGE, FRANK C. (1963-2000) Psychology B.A., M.A., San Jose State University.	STOKES, PHILLIP F. (1964-2000) English, English as a Second Language, Reading, Speech, Linguistics B.A., M.A., San Francisco State University.
NICHOLS, BARBARA (1977-1990) Older Adult Services A.A., Foothill College; B.A., San Jose State University; M.A., Santa Clara University.	PRITCHARD, WILLIE (2006-2008) Academic Coordinator B.A., Duke University; M.A., Antioch University.	SCHOELLER, ARLENE J. (1970-1989) Nursing B.S.N., Keuka College; M.A., San Jose State University.	STOLL, EDWINA L. (1986-2009) Speech/Communication B.A., Linfield College; M.A., University of Hawaii; Ph.D., University of Utah.
NIELSEN, M. LANCE (1975-2006) A.A., Diablo Valley Junior College; B.S., Hayward State University; M.A., San Jose State University.	QUARATO, PATRICIA S. (1992-2008) Biology B.S., Virginia Commonwealth University/Medical College; M.S., University of Southern California.	SCHWOOB, LESLIE A. (1967-2003) Automotive Technology B.A., M.A., San Francisco State University.	STRAUSS, RAYMOND C. (1961-1985) Mathematics B.S., M.S., University of Chicago.
NORRIS, MARCIA (1991-2001) High Tech Center Training Unit B.A., University of Alabama; M.A., English, M.A., Education, San Jose State University.	QUIRKE, LILLIAN M. (1964-1988) Art B.S., Southern Connecticut State College; M.A., Long Beach State University; Ed.D., Teacher's College, Columbia University.	SCOTT, DANIEL R. (1970-2001) English B.S., M.A., Brigham Young University.	STURM, J. BRUCE (1976-2000) English B.A., Villanova University; M.A., Stanford University; M.A., Santa Clara University.
NUNES, ANTHONY J. (1966-1992) Physical Education A.A., College of the Sequoias; B.S., M.S., California State Polytechnic College.		SHROPE, C. WAYNE (1964-1991) Speech A.A., Placer Junior College; B.A., M.A., Sacramento State University.	SULLIVAN, MICHAEL G. (1970-2004) Geography and Anthropology; Dean/Provost, Instruction, Career and Technical Education B.A., M.A., University of California, Santa Barbara; Ph.D., University of Pittsburgh.

Emeriti Faculty/Administrators

SULLIVAN, NELL D. (1970-1993)
English
B.A., M.A., University of California, Berkeley.

TACANG, LEROY J. (1972-2004)
Art
B.A., M.A., San Jose State University.

TANDOC, NELSON E. (1968-1997)
Music
B.M., University of Oregon;
M.A., University of Washington.

THOMAS, HUGH S. (1966-1998)
Political Science
B.Sc. (Econ), London University,
London School of Economics;
M.A., San Jose State University.

TOOTHMAN, GARY L. (1978-2001)
Automotive Technology
B.A., Indiana State University;
M.A., San Jose State University.

TRAVIS, BARBARA B. (1977-1995)
Associate Director,
Reading Skills, Readiness Lab
B.A., Edinboro State College;
M.A., Teachers' College, Columbia
University.

TRAVIS, WALTER E. (1962-1991)
Political Science
B.A., M.A., San Francisco State
University;
Ed.D. (Government), Teachers'
College, Columbia University.

TREJO, PAUL E. (1961-1989)
Astronomy, Engineering
B.S., University of Southern
California; B.S., U.S. Naval Post
Graduate School;
M.A., San Jose State University.

TRIMBLE, JEAN C. (1966-1990)
Nursing
A.A., American River Junior College;
B.S., Stanford University;
M.S., University of California.

VACIO, ALEJANDRO V. (1991-2001)
Physical Education/Athletic Director
B.A., San Jose State University; M.S.,
California Polytechnic University.

VAN FOSSEN, LELAND C. (1968-2010)
Biology
B.A., M.A., San Jose State University.

**VANNIASEGARAM,
GNANALAKSHMI** (1991-2010)
Mathematics
B.S., University of Colombo,
Sri Lanka; M.S., University of
California, Santa Cruz.

VICIAN, THOMAS A. (1968-2004)
Philosophy
B.A., Luther College;
M.Th., Luther Theological Seminary;
Ph.D., Claremont University Center.

WAATHIQ, PAULINE (1974-2007)
Learning Disabilities
B.A., Indiana University;
M.Ed., University of Pittsburgh.

WAGNER, WESLEY W. (1975-1997)
HOPE Vocational Program
B.A., Washington State University;
M.S., Portland State University.

WALKER, CHARLES A. (1967-1993)
Art
A.A., Contra Costa College;
B.A., San Francisco State University;
M.A., San Jose State University.

WALKER-ABSHIRE, TISA (1989-2005)
Anthropology
B.A., M.A., Stanford University.

WALLACE, RUTH A. (1961-1981)
Coordinator, Work
Experience Education
B.A., University of California;
M.A., San Jose State University.

WALSH, PATRICIA A. (1975-1989)
History
B.A., Queens College; M.Ed., D.Ed.
University of California, Los Angeles.

WANLASS, JOHN W. (1974-2009)
Accounting and Computer
Information Systems
B.A., M.A., Brigham Young University.

WARNOCK, RON (1998-2004)
Dean, Athletics
B.S., State University of New York,
Cortland; M.S., Washington State
University; Ph.D., Florida State
University, Tallahassee.

WASKIEWICZ, EMILY M. (1958-1979)
Business
B.S., Western Michigan College;
M.A., Stanford University.

WASSMAN, ROSE MARIE M. (1971-1997)
English, Reading Improvement
B.A., M.A., Wayne State University.

WEBBER, BARBARA (1962-1984)
Nursing
B.S., Boston University; R.N.,
Faulkner Hospital School of Nursing.

WEGMAN, ROBERT W. (1974-1999)
Physical Education
B.A., San Jose State University;
M.A., Stanford University.

WERNER, JEAN (1975-2006)
Counseling
B.A., University of California,
Berkeley; M.A., San Diego State
University.

WEUSI-PURYEAR, MUATA (1987-2008)
Mathematics
B.S., Monmouth College;
M.S., New Mexico State University;
Ph.D., Stanford University.

WHITE, STEPHEN J. (1971-1994)
Physical Therapist Assisting
B.S., St. Lawrence University;
M.A., Stanford University.

WILCOX, JEANNE O. (1963-1987)
Executive Head, Allied Health
& Nursing; B.S., University of
Minnesota; M.S., University of
California, Los Angeles.

WILLIAMS, HILLIS P. (1968-1983)
Theatre Arts
A.B., McPherson College, Kansas;
M.A., Northwestern University.

WILLIAMS, JAMES C. (1985-2004)
History
B.A., University of Oregon;
M.A., San Jose State University;
Ph.D., University of California, Santa
Barbara.

WILLIAMS, RICHARD (1989-1999)
Drafting CAD
A.A., Bakersfield College;
B.A., M.A., San Jose State University.

WILSON, CAROLYN (1993-2004)
B.A., California State University,
Los Angeles.

WINDHAM, HELEN (1958-1977)
Recreation, Physical Education
B.S., Boston University—Sargent
College; M.Ed., University of Texas.

WINTERS, MARION (1990-2009)
Diversity Office/IIS
B.A., San Jose State University;
M.S., San Francisco State University;
Ed.D., University of San Francisco.

WOMER, CHARLES E. (1975-2000)
Business
B.S., University of California,
Berkeley;
M.P.H., University of California;
M.B.A., San Jose State University.

WOOD, BARBARA (1964-1977)
Public Services Specialist
B.A., San Jose State University;
M.A., University of New Mexico

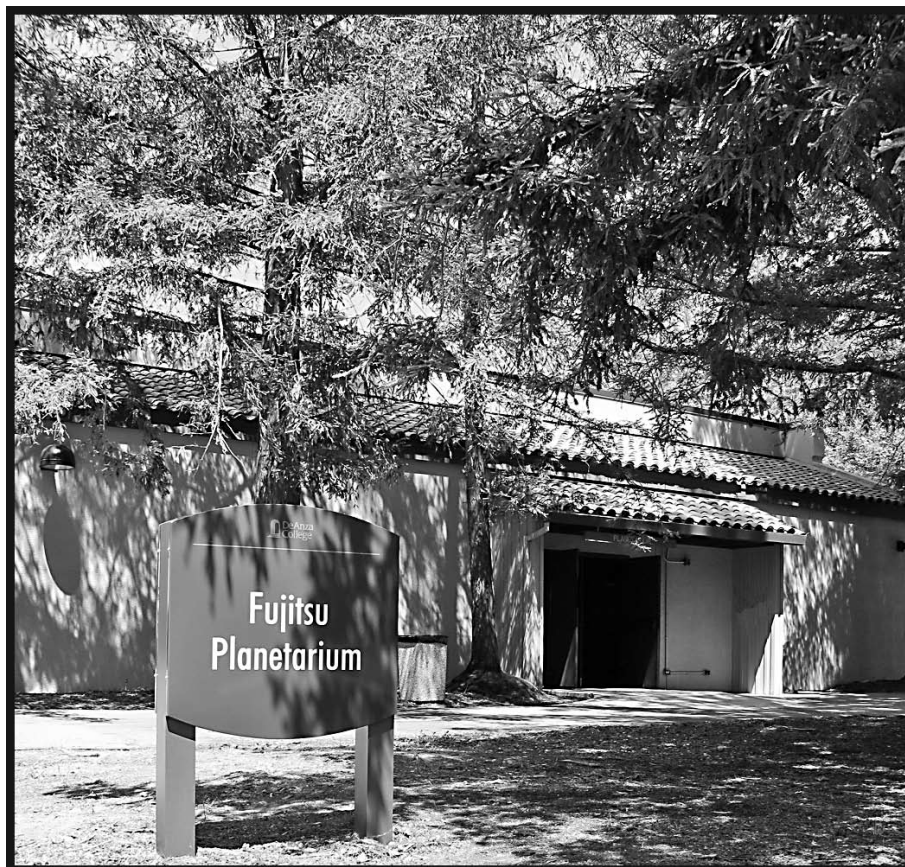
WOOD, SARAH D. (1989-1999)
Reading
B.A., Stanford University;
M.A., Yale University.

WRENN, BRUCE G. (1974-1992)
Mathematics
B.S.M.E., University of Cincinnati;
M.S.M.E., University of Southern
California; Ph.D. Stanford University.

WRIGHT, RICHARD D. (1963-1989)
Dean, Administrative Services
B.S., Ph.D., University of Utah.

YASUDA, PHYLLIS S. (1974-1998)
Business
B.A., M.A., San Jose State University.

YOLLES, ROBERT S. (1971-2000)
Chemistry
B.S., University of Dayton;
Ph.D., University of California.



Classified Staff

ABAD, SOFIA Occupational Training Institute	(1989)	BONNER, CHRISTIAN Creative Arts	(2007)	CORNELY, PATRICIA Biological, Health and Environmental Sciences	(1999)	FIFIELD, PATRICIA Admissions and Records	(1998)
ABBRUSCATO, JOHN Educational Technology Services	(1987)	BRACY, SHANNON Physical Education	(1987)	CORPUZ, ANNETTE Library Services	(1989)	FIGLIOMENI, PAUL Educational Resources	(1990)
AGEE, DORIS FERRIS Health Services	(2005)	BRADBURN, KENT Operations	(1997)	CORRALES, FRANTIE Custodial Services	(1997)	FLETCHER, STEPHEN Counseling	(2008)
AGUILAR, LENNY A. Adapted Physical Education	(2005)	BRADSHAW, DONNALYNN Disabled Student Services	(1997)	COUCH, JANET Educational Resources	(2009)	FOSNAUGH, MICHAEL High Tech Center Training Unit	(2001)
AHRENS, PAULA Community Education	(1999)	BREAULT, EDWARD Technology Resources Group	(1995)	COYNE, SHEILA Educational Technology Services	(1998)	FRANCO, KAREN ANNTIONETTE Disabled Student Services	(2007)
AJDARIAN-FARD, VIDA Hope	(2006)	BROWNING, MARY College Readiness	(1991)	CRANDALL, JOAN VP, Instruction	(1989)	FREEMAN III, CLEVE International Student's Office	(2007)
ALAMBAN, CARLITA Occupational Training Institute	(1990)	BUI, KIMPHUNG THI Child Development Center	(2006)	CREAMER, BRADLEY Technology Resources Group	(2001)	FUKUYAMA, KIMBERLY T. Educational Diagnostic Center	(2006)
ALDERETE, CONCEPCION Educational Resources	(1999)	BURKE, JEAN Biological, Health and Environmental Sciences	(1982)	CRUMPTON, DINA Transfer Center	(2000)	GACA, RICHARD Educational Technology Services	(1999)
ALEXANDER, ROBERT Counseling	(2007)	BUXTON, PAUL Educational Resources	(1979)	DAI, DAVID Operations	(1983)	GARCIA, ENRIQUE Disabled Student Services	(1984)
ALVARADO, WALTER Language Arts	(1997)	BYARS, DAVID Library Services	(2008)	DAM, TUYET Occupational Training Institute	(2007)	GARCIA, JESUS Educational Resources	(1997)
ALVAREZ, ELOISE DARLENE Campus Center	(2001)	CABUAG, DEMETRIO Educational Resources	(1997)	DAVIS, PRISCILLA Special Education	(1999)	GATES, DENIS Educational Resources	(1992)
ANGELO, ROSE Disabled Student Services	(1998)	CALDERON, MARIA Educational Resources	(2002)	DE LA CERDA, CARLOS Educational Resources	(1995)	GATES, MAUREEN District Police, De Anza	(1977)
ANTHONY, RYAN Educational Technology Services	(1998)	CAMPBELL, MARY Biological, Health and Environmental Sciences	(2000)	DE LA CRUZ JR., ARMANDO E. Disabled Student Services	(2005)	GERARD, TERI Budget and Personnel	(2007)
APARICIO, VERONICA Admissions and Records	(2008)	CARDOZA, SANDRA Library Services	(2008)	DEBLER, NORBERT Educational Technology Services	(1997)	GIBSON, PHILIPPA VP, Finance/Educational Resources	(2001)
ARCETA C, RAFAEL Educational Resources	(1999)	CASHMAN, DEBBIE Creative Arts	(1984)	DEIPARINE II, PRIMITIVO High Tech Center Training Unit	(2001)	GIEBLER, THOMAS Athletics	(1979)
ARGABRITE, DIANA Euphrat Museum of Art	(2001)	CASTILLO, MARIA Educational Resources	(2001)	DICK, CASEY Office of College Life	(1990)	GILBERTSON, K. DOROTHY Adapted Physical Education	(2005)
ARMSTRONG, SHANI College Readiness	(2008)	CEBALLOS, JULIE Technology Resources Group	(2007)	DICKARD, JEFFREY C. Admissions and Records	(2006)	GILLELAND, MAX CAD/Digital Imaging	(2002)
ASCH, NOAH Bookstore	(2007)	CERVANTES, LETICIA Educational Resources	(1999)	DIMARE, KENNETH Bookstore	(1997)	GILLET, DAVID Educational Technology Services	(2002)
AVILA-CORTES, RENE Educational Resources	(1997)	CHANG, MI Curriculum/Scheduling	(2002)	DISHNO, DANIEL Occupational Training Institute	(1984)	GONZALES, JR., FRANCISCO District Police, De Anza	(1989)
AYERS, WILLIAM Educational Technology Services	(1986)	CHENEY, MELODIE Admissions and Records	(1998)	DOAN, MICHELLE Physical Sciences, Math & Engineering	(2000)	GORE, SARAH Operations	(1989)
BAEZ-ACEVEDO, MIGUEL Operations	(1991)	CHEUNG, MARILYN Counseling	(2001)	DOWLING JR., PATRICK M. College Readiness	(2005)	GRACON, MICHAEL Special Education	(2009)
BARELA, WILDER Custodial Services	(2008)	CHING, LAWRENCE Technology Resources Group	(2007)	DUQUE, INGRID FELK Occupational Training Institute	(2007)	GREENE, LILY Extended Opportunities, Programs & Services	(1988)
BARRETO, CARLOS Educational Technology Services	(2007)	CHUNG-TABANGCURA, TRACY Articulation and Transfer Services	(2000)	DURHAM JR., GERALD Operations	(1990)	GRIFFITH, JERRY Operations	(1983)
BARTCH, JOHN Educational Technology Services	(2001)	CLARK, MARY Curriculum Services	(1999)	ECHEVERRIA, ARMANDO Adapted Physical Education	(2005)	GUEVARA, ALFONSO Educational Resources	(1975)
BAZAN, EDWARD Printing Services	(1988)	CLAROS, RANDY L. Counseling	(2006)	EDMAN, SUSAN Language Arts	(1989)	HEGGLUND, MICHAEL M. Community Education	(2004)
BDZIL, MARGARET Workforce Development	(2001)	CLOW, JAMES Educational Technology Services	(1995)	EHLE, TAMARA Technology Resources Group	(2008)	HEIN, GEORGE Language Arts	(1997)
BELLON, RYAN S. Financial Aid	(2006)	COLE, NANCY VP, Student Services	(1985)	EHRMAN, SANDRA J. Educational Diagnostic Center	(2005)	HERNANDEZ, JOSEFA Educational Technology Services	(2000)
BERG, SHARON Educational Technology Services	(1997)	COLE, SHERI Admissions and Records	(2002)	ENGLIN, MARY KAY Staff Development	(1982)	HERNANDEZ, JUAN HERNANDEZ Custodial Services	(2006)
BICHLER, SILVIA Creative Arts	(2001)	CONTRERAS, DIANA Counseling	(2005)	ESTRADA, ALFREDO Educational Resources	(2001)	HERNANDEZ, REYES Educational Resources	(1997)
BLOOM, LARRY Adapted Physical Education	(1977)	CONTRERAS, LEONEL Operations	(1974)	FEDASZ, JEANETTE Health Services	(2007)	HIRATA, LUCILA Child Development Center	(2007)
BLOOM, SUSAN Financial Aid	(1997)	COOKE, JOSEPH P. Grounds	(2007)	FELDMAN, JOYCE Financial Aid	(1992)	HO, SHUK-YIN Tutorial Center	(2001)
						HOLSTEIN, JAMES Audio Visual Services	(1979)

Classified Staff

HOM, NELSON Automotive Technology	(2007)	LE, CHUONG Extended Opportunities, Programs & Services	(2002)	MC CORTNEY, LESLEY Distance Learning	(1990)	PACCIORETTI, MICHAEL District Police, De Anza	(1979)
HUNTER, KAREN KAY Financial Aid	(2005)	LEAL, MARIA Educational Resources	(1997)	MC LAUGHLIN, PETER Educational Technology Services	(1987)	PACE, BERTA Business/Computer Systems	(2001)
HUYNH, ANDY Counseling	(2007)	LEEVEER, ANN Distance Learning	(1999)	MC GEE, KENT Admissions and Records	(2001)	PARTIDA-FLETES, JESUS Educational Resources	(1997)
HUYNH, NICHOLAS Financial Aid	(1988)	LEGOIS, JOHN Special Education	(1977)	MELL, BONNIE Biological, Health and Environmental Sciences	(1987)	PASQUALI, SHARON Student Services	(2008)
INGALLS, MELISSA Biological, Health and Environmental Sciences	(1996)	LESSLIE, GORDON Operations	(1974)	METCALF, KEVIN Technology Resources Group	(2001)	PATLAN, OLIVIA Counseling	(1990)
IZU, THOMAS California History Center	(1994)	LEVIN, REBECCA Counseling	(1999)	MIGLIACCIO, ANDREA Student Services	(2008)	PENA-FERRICK, JOAN Admissions and Records	(1986)
JECKELL, ROBERT RAY Nursing	(2007)	LI, LI Operations	(2000)	MILLER, SUSAN L. Short Courses	(2005)	PEREIDA, CARMEN Occupational Training Institute	(1990)
JENKINS, JERRY Operations	(1978)	LIANG, LILY L. Printing Services	(2006)	MONARY, BLANCHE Occupational Training Institute	(1994)	PEREZALONSO, MARIA Transfer Center	(2000)
JENKINS, LOIS Marketing/Communications	(2000)	LIAO, CHIEN-HUI Educational Technology Services	(2007)	MORALES, JORGE Outreach and Relations with Schools	(2007)	PETTIT, KELLY Educational Technology Services	(2000)
JENSEN, ROSEMARY C. Disabled Student Services	(2007)	LIN, HSIAO Operations	(2001)	MORRISON, SYLVIA Adapted Physical Education	(2005)	PHAM, THIEU BAO Educational Technology Services	(2002)
JOBS, PATTY Budget and Personnel	(1990)	LINCOLN, CAROL M. Educational Diagnostic Center	(2005)	MUNSON, KATHLEEN Library Services	(1997)	PHAM, TU Occupational Training Institute	(1989)
JOHNSON, BARRY Admissions and Records	(1996)	LISTER, CINDY Learning Resources	(2001)	MUSTACHIA, LISA Articulation and Transfer Services	(1991)	PHAN, DUC Printing Services	(1987)
JOHNSTONE, NORMA Educational Diagnostic Center	(2001)	LOMAX, MARY-JO Health Services	(1990)	NAKAHARA, CHRISTINE Sign Language Interpreter	(2009)	PLUM, CARYN YUKIKO Financial Aid	(2004)
JONES, CAROL Physical Education	(2001)	LU, JOY Computer Applications & Office Systems	(1990)	NAKAYAMA, CINDY Admissions and Records	(1998)	POJHAN, ATOUSA Admissions and Records	(2007)
JOSEPH, PAULA Educational Resources	(1999)	LU, SHAN Educational Technology Services	(2000)	NELSON, LEIF District Police, De Anza	(1994)	QIAN, WEIMING Distance Learning	(2008)
JUDKINS, STAN Educational Technology Services	(1985)	LYUMKIS, TATYANA Educational Technology Services	(1997)	NG, JOSEPH Counseling	(2002)	QUIDACHAY, JESSICA Custodial Services	(2005)
KAHN, MARTIN Broadcast Media Center	(1997)	MA, JIM Operations	(1996)	NGO, JOE Financial Aid	(1985)	RABBITT, PETER Physical Education	(2000)
KAN, DALE High Tech Center Training Unit	(2000)	MACCUBBIN, KRISTA Health Services	(1990)	NGUYEN, BACHLAN Computer Information Systems	(1984)	REARDON, JAMES Operations	(2001)
KASTELIC, HELEN Language Arts	(1996)	MADDEN, WILLIAM Student Success and Retention Services	(2008)	NGUYEN, DUC Educational Resources	(1998)	REED, DENNIS Educational Resources	(1997)
KAZEMPOUR, REZA Bookstore	(2009)	MAGNIN, CHRISTINE Special Education	(1986)	NGUYEN, HA Educational Resources	(2002)	RINDFLEISCH, JANET Euphrat Museum of Art	(1985)
KHA, BACHMAI Computer Applications & Office Systems	(1995)	MALLET, STEVE Bookstore	(1998)	NGUYEN, JENNIFER Student Accounts	(1985)	RIVAS SANCHEZ, RENE Educational Resources	(1997)
KIRK, LISA Student Accounts	(1994)	MANN, ELLEN Adapted Physical Education	(1981)	NGUYEN, LESLIE Social Sciences/Humanities	(1997)	ROBERTS, BRIAN Admissions and Records	(2005)
KIRKPATRICK, KERI MARIE Library Services	(2006)	MARDUENO, JOSE Operations	(1997)	NGUYEN, THANH Cashiering Services	(2000)	ROBLES, GEORGE Extended Opportunities, Programs & Services	(1978)
KONG, JOHN Educational Resources	(2000)	MARDUENO, JUAN Operations	(1992)	NGUYEN, THAO PHUONG Financial Aid	(2006)	RODERIGUES, IVAN Educational Resources	(1995)
KONG, YUKBING Educational Resources	(1997)	MARQUEZ, VIRGINIA Extended Opportunities, Programs & Services	(1993)	NGUYEN, TRAM Counseling	(2008)	RODRIGUEZ, MATTHEW Community Education	(1999)
KOYAMA, LINDA Child Development Center	(2008)	MARTE, JOSE Biological, Health and Environmental Sciences	(1998)	NIASOV, IRENE Library Services	(1997)	ROMATZ, CYNTHIA Admissions and Records	(1989)
KRAMASZ, VIRGINIA Admissions and Records	(2000)	MATHIR, YUSUF Educational Technology Services	(2000)	O'KEEFE, FAY M. Child Development Center	(2006)	ROWE, TERRANCE Educational Technology Services	(2002)
LA GRANGE, ERIK Educational Technology Services	(1998)	MARTINEZ, DIANNA Environmental Studies	(2007)	O'MALLEY, DAWNA Financial Aid	(2001)	ROZA, THOMAS Educational Technology Services	(2002)
LAMBRUSCHINI, ALEJANDRO Bookstore	(1991)	MAYNARD, LORNA Automotive Technology	(1991)	OKABE-KUBO, JOANN Intercultural/International Studies	(1981)	RUEDA, JAVIER Physical Sciences, Math & Engineering	(1986)
LAMPO, JOSEPH Educational Technology Services	(1983)	MC CANN, ANTHONY Art	(2005)	OSTRANDER, JANE Experiential Learning Center	(2004)	RUEDA, JOSE Educational Technology Services	(1985)
LATONE, ROBERT Operations	(1987)	MC COMAS, LYNN Operations	(1984)	OTA, WAYNE Operations	(1976)	RUEDA, SYLVIA Student Development	(1989)

Classified Staff

SAINTEN, MARGARET Biological, Health and Environmental Sciences	(1987)	THAI, BINH Admissions and Records	(1984)	VAN, NGUYEN Financial Aid	(2003)	WIDIARTA, ERWIN Educational Technology Services	(2002)
SALAZARES, MARIA Educational Resources	(1995)	THAI, JANNY Counseling	(1981)	VANDIVER, GAIL Counseling	(2002)	WINN, KIM Audio Visual Services	(1988)
SANCHEZ, AMELIA Counseling	(1995)	THAI, MAY Cashiering Services	(2000)	VARELA, SOFIA MONTERROSA Child Development Center	(2006)	WINN, MONIKA Bookstore	(1988)
SANCHEZ, RITA Child Development Center	(2002)	THAI, TRUNG Library Services	(1998)	VARGAS, DENNIS Educational Resources	(1978)	WOLF, LINDA Physical Sciences, Math & Engineering	(1987)
SANFORD, LISA Health Services	(1998)	THANH, QUANG Library Services	(2001)	VIDAL, MAURA Custodial Services	(2007)	WOLIN, DAVID Educational Diagnostic Center	(2005)
SANTACRUZ, ANDREA Matriculation	(2007)	TOMALINAS, ROBERT Admissions and Records	(2006)	VON AHNEN, KARL Planetarium	(1993)	WOO, CHRISTINE President's Office	(2001)
SAUSSOL, BONNETT Marketing/Communications	(1989)	TRAN, HUNG Educational Technology Services	(1996)	WASHINGTON, MARY ANN Physical Sciences, Math & Engineering	(2001)	WRIGHT, BILL E. Child Development Center	(2006)
SCHMIDT, JANET Financial Aid	(2000)	TRINH, LAN Financial Aid	(2002)	WEINBERG, PATRICIA Assessment Center	(2001)	YE, YUNFEI Physical Education	(2008)
SCHOOLER, SHIRLEY Disabled Student Services	(1992)	TROSPER, MATTHEW Athletics	(1989)	WHELAN, PATRICIA Educational Diagnostics Center	(2001)	YUMORI-KAKU, LA DONNA College Life	(1979)
SCHOTT, THOMAS Film/T V	(1987)	TUAZON, RENATO Student Success Center	(2000)	WHITE, CURTIS Operations	(1986)	ZAMORA, LILLIAN Assessment Center	(1998)
SEPULVEDA, JENNYLEA W. Educational Diagnostic Center	(2005)	VAN, HOANG Educational Technology Services	(1997)			ZINK, PAUL Educational Technology Services	(1987)
SERRANO, MARIA Educational Resources	(1989)						
SHANNAKIAN, DENNIS Office of College Life	(1999)						
SHELDON, MELISSA Special Education	(2009)						
SIGALA-AGUILAR, GRISELDA Student Success Center	(1981)						
SMITH, CYNTHIA Budget and Personnel	(1989)						
SOKABE, SANDRA Health Services	(2001)						
SOUSA, ROSA Educational Resources	(2002)						
STEFANINI, JEFFREY District Police, De Anza	(1988)						
STODDARD, ANDREW Applied Technologies	(2009)						
STOECKLE, SHARON Bookstore	(1984)						
STRACHMAN, IRENE Educational Diagnostic Center	(2005)						
STRONGONE, ANGELICA Counseling	(2000)						
SUR, DWIGHT Bookstore	(2001)						
SUSI, LORI Marketing/Communications	(1990)						
SUSTAITA-PARSONS, ALICIA Library Services	(1975)						
SWANSON, JANE Scheduling	(1975)						
TAI, RACHEL Cashiering Services	(2010)						
TANG, GUOXIN Custodial Services	(2006)						
TAO, RYAN Physical Education	(2000)						
TAYLOR HARPER, MARIE Computer Information Systems	(2007)						
TE, SO Curriculum	(2002)						



DE ANZA COLLEGE ADMINISTRATION



Brian Murphy
President



Letha Jeanpierre
Vice President
Finance and
Educational Resources



Christina Espinosa-Pieb
Vice President
Instruction



Stacey A. Cook
Vice President
Student Services

Associate Vice President, Finance and Educational Resources
Associate Vice President, Instruction
Dean, Admissions and Records
Dean, Biological, Health and Environmental Sciences
& Workforce and Applied Technologies
Dean, Business/Computer Systems
Dean, Community Education
Dean, Counseling and Matriculation
Dean, Creative Arts
Dean, Intercultural/International Studies
Dean, Language Arts
Dean, Physical Education and Athletics
Dean, Physical Science, Math and Engineering
Dean, Social Sciences and Humanities
Dean, Student Development and EOPS
Director, Budget and Personnel
Director, Campus Center
Director, Campus Safety and Security
Director, Child Development Center
Director, De Anza Bookstore
Director, Financial Aid and Scholarships
Director, High Tech Center Training Unit
Director, Marketing and Communications
Director, Outreach and Relations with Schools
Director, Printing Services
Manager, Custodial Operations

Donna Jones-Dulin
Rowena Tomaneng
Kathleen Moberg

Stephanie Sherman
Ron McFarland
Caron Blinick
Vacant
Nancy Canter
Edmundo Norte
Vacant
Rich Schroeder
Jerry Rosenberg
Carolyn Wilkins-Greene
Michele LeBleu-Burns
Margaret Michaelis
Patrick Gannon
Vacant
Naoko Harada
Jeri Montgomery
Cindy Castillo
Gaeir Dietrich
Marisa Spatafore
Rob Mieso
José Menéndez
Emanuel DaSilva

BOARD of TRUSTEES



Joan Barram



Betsy Bechtel



Laura Casas Frier



Pearl Cheng



Bruce Swenson

FOOTHILL-DE ANZA COMMUNITY COLLEGE DISTRICT

Chancellor

Administrative Offices

Vice Chancellor, Human Resources/Equal Opportunity

Director, Human Resources

Manager, Benefits

Vice Chancellor and Chief Technology Officer

Executive Director, Institutional Research and Planning

Director, Information Systems

Director, Systems and Networks

Vice Chancellor, Business Services

Budget Officer

Executive Director, Facilities, Operations and Construction

Director, Facilities and Operations

Associate Director, Facilities and Operations

Controller

Director, Purchasing Services

Director, Risk Management

Director, Bond Program Management-Foothill

Director, Bond Program Management-De Anza

Director, Environmental Health and Safety

Interim Director, Foundation

Associate Director, Foundation-Foothill

Associate Director, Foundation-De Anza

Chief, District Safety and Security

Linda Thor

Dorene Novotny

Vacant

Christine Vo

Fred Sherman

Andrew LaManque

Chien Shih

Sharon Luciw

Kevin McElroy

Bernata Slater

Charles Allen

Frank Nunez

Lester Lyons

Hector Quinonez

Carmen Redmond

Marsha Kelly

Art Heinrich

Tom Armstrong

Mona Voss

Robin Latta-Lyssencko

Laura Woodworth

Jennifer Dirking

Ron Levine

NOTICE REGARDING the DRUG-FREE SCHOOLS and CAMPUSES ACT

De Anza College, in compliance with federal law, is providing all students and employees with the following statement regarding the unlawful possession, use or distribution of illicit drugs or alcohol on its campus or at any college event. The unlawful possession, use or distribution of any illicit drug or alcohol by students on district property or at district activities or events is prohibited.

The unlawful possession, use or distribution of illicit drugs or alcohol by students or employees on college property or at college events may constitute criminal prosecution under state and/or federal law.

Federal penalties are described on the chart on the next page.

De Anza College's policies and procedures for sexual assault, including rape, and sexual harassment along with information on alcohol and other drugs are located in the "College Policies and Guidelines" section of this catalog.

The use of drugs and alcohol may pose significant health risks including hangovers, blackouts, general fatigue, impaired learning, dependency and death. Drugs known as "designer drugs" are a unique combination of drugs listed below. Ecstasy (MDMA) is

the most popular designer drug on college campuses today. The chart describes various drug categories and their risks.

Further detailed information on the state penalties and risks associated with the use of drugs and alcohol may be found at the following campus locations: Counseling and Advising Center, Student Activities Office, Health Services Office, Learning Center reference desk and division offices.

It is the policy of the college to impose appropriate disciplinary sanctions on employees and students for the unlawful possession, use or distribution of illicit drugs or alcohol. Appropriate disciplinary sanctions may include suspension or expulsion for students or suspension or termination for employees, and the applicable sanctions for violating the standards are contained in the De Anza Student Handbook.

Controlled Substances - Uses and Effects

Drug	Dependence physical/psychological	How Used	Duration (hours)	Possible Effects	Symptoms of Overdose	Withdrawal Syndrome
Opium Morphine	High/High High/High	Oral, smoked Oral, smoked, injected	3-6 3-6 3-6	Euphoria Drowsiness, respiratory depression Constricted (pin-point) pupils	Slow, shallow breathing, clammy skin Convulsions, coma, possible death	Watery eyes, runny nose, yawning, cramps Loss of appetite, irritability, nausea
Codeine Heroin	Mod./Mod. High/High	Oral, injected Smoked, injected, sniffed	3-6 3-6 3-6			
Hydromorphone Meperidine Methadone	High/High High/High High/High	Oral, injected Oral, injected Oral, injected	3-6 3-6 12-24			
Barbiturates Methaqualone Tranquilizers Chloral Hydrate Glutethimide	High/Mod. High/High High/High Mod./Mod. High/Mod.	Oral Oral Oral Oral Oral	1-16 4-8 4-8 5-8 4-8	Sensory alteration, anxiety reduction, intoxication Small amounts cause calmness, relaxed muscles Larger amounts cause slurred speech, impaired judgment, loss of motor coordination	Shallow respiration, clammy skin, dilated pupils Weak and rapid pulse, coma, death	Anxiety, insomnia, muscle tremors, loss of appetite Abrupt cessation or reduced high dose may cause convulsions, delirium, death
Cocaine*	Possible/High	Sniffed, smoked injected	1-2	Increased heart and respiratory rates, elevated blood pressure, dilated pupils and decreased appetite; high doses may cause rapid or irregular heartbeat, loss of coordination, collapse; may cause perspiration, blurred vision, dizziness, a feeling of restlessness, anxiety, delusions	Agitation, increase in body temperature, hallucinations, convulsions, possible death	Apathy, long periods of sleep, irritability, depression, disorientation
Amphetamines Methamphetamine Phenmetrazine Methylphenidate Other Stimulants Ice	Possible/High Possible/High Possible/High Possible/Mod. Possible/High High/High	Oral, injected Oral, injected Oral, injected Oral, injected Oral, injected Smoked, oral injec., inhaled	2-4 2-4 2-4 2-4 2-4 4-14			
PCP, Angel Dust Loveboat	Unknown/High	Smoked, oral, injected Oral	Up to days 8-12 hrs.	Rapidly changing feelings, immediately and long after use Chronic use may cause persistent problems, depression, violent behavior, anxiety, distorted perception of time Large doses may cause convulsions, coma, heart/lung failure, ruptured blood vessels in the brain May cause hallucinations, illusions, dizziness, confusion, suspicion, anxiety, loss of control	Longer, more intense "trip" episodes, psychosis, coma, death	No known withdrawal syndrome
LSD/Acid Green/Red Dragon Mescaline, Peyote Psilocybin	None/Unknown None/Unknown None/Unknown	Oral, injected Oral, injected, smoked, sniffed	8-12 hrs. Variable			
Marijuana	Unknown/Moderate	Smoked, oral pot, grass	2-4	Euphoria followed by relaxation; loss of appetite; impaired memory, concentration, knowledge retention; loss of coordination; more vivid sense of taste, sight, smell, hearing; stronger doses cause fluctuating emotions, fragmentary thoughts, disoriented behavior, psychosis; may cause irritation to lungs, respiratory system; may cause cancer	Fatigue, lack of coordination, paranoia, psychosis	Insomnia, hyperactivity, sometimes decreased appetite
Tetrahydro- cannabinol Hashish Hashish Oil	Unknown/Moderate Unknown/Moderate Unknown/Moderate	Smoked, oral Smoked, oral Smoked, oral	2-4 2-4 2-4			

Federal Trafficking Penalties

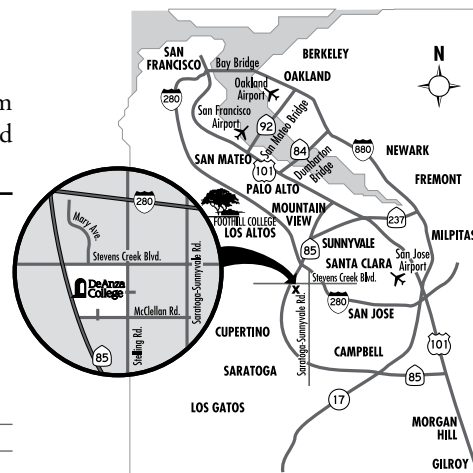
Description		Quantity		1st Offense		2nd Offense	
Marijuana		1,000 kg more mixture; or 1,000 or more plants		1. Not less than 10 years, not more than life. 2. If death or serious injury, not less than 20 years, not more than life. 3. Fine not more than \$4 million individual, \$10 million other than individual.		1. Not less than 20 years, not more than life. 2. If death or serious injury, not more than life. 3. Fine not more than \$8 million individual, \$20 million other than individual.	
Marijuana		100 kg to 999 kg mixture; or 100-999 plants		1. Not less than 5 years, not more than 40 years. 2. If death or serious injury, not less than 20 years, not more than life. 3. Fine not more than \$2 million individual, \$5 million other than individual.		1. Not less than 10 years, not more than life. 2. If death or serious injury, not more than life. 3. Fine not more than \$4 million individual, \$10 million other than individual.	
Marijuana		50 to 99 kg mixture 50 to 99 plants		1. Not more than 20 years. 2. If death or serious injury, not less than 20 years, not more than life. 3. Fine \$1 million individual, \$5 million other than individual.		1. Not more than 30 years. 2. If death or serious injury, not more than life. 3. Fine \$2 million individual, \$10 million other than individual.	
Marijuana Hashish Hashish Oil		Less than 50 kg mixture 10 kg or more 1 kg or more		1. Not more than 5 years. 2. Fine not more than \$250,000, \$1 million other than individual.		1. Not more than 10 years. 2. Fine \$500,000 individual, \$2 million other than individual.	
CSA I and II	Drug	Quantity	1st Offense	2nd Offense	Quantity	1st Offense	2nd Offense
	Methamphetamine	10-99 gm pure or 100-999 gm mixture	1. Not less than 5 years. Not more than 40 years. 2. If death or serious injury, not less than 20 more than life. 3. Fine of not more than \$2 million individual, \$5 million other than individual.	1. Not less than 10 years, not more than life. 2. If death or serious injury, not less than life. 3. Fine of not more than \$4 million individual, \$10 million other than individual.	100 gm or more pure or 1 kg or more mixture 1 kg or more mix 5 kg or more mix 50 gm more mix 100 gm or more pure or 1 kg or more mixture 10 gm or more mixture 400 gm or more mixture 100 gm or more mixture	1. Not less than 10 years, not more than life. 2. If death or serious injury, not less than 20 years or more than life. 3. Fine of not more than \$4 million individual, \$10 million other than individual.	1. Not less than 20 years, Not more than life. 2. If death or serious injury, not less than life. 3. Fine of not more than \$8 million individual, \$20 million other than individual.
	Heroin	100-999 gm mixture					
	Cocaine	500-4,999 gm mixture					
	Cocaine Base	5-49 gm mixture					
	PCP	10-99 gm pure or 100-999gm mixture	1. Not more than 1 year. 2. Fine not more than \$100,000 individual, \$250,000 not individual.	1. Not more than 2 years. 2. Fine not more than \$200,000 individual, \$500,000 not individual.			
	LSD	1-9 gm mixture					
	Fentanyl	40-399 gm mixture					
Fentanyl Analogue	10-99 gm mixture						
CSA I and II	Drug	Quantity	1st Offense	2nd Offense			
	Others (law does not include marijuana, hashish, or hash oil)	Any	1. Not more than 20 years. 2. If death or serious injury, not less than 20 years, not more than life. 3. Fine \$1 million individual, \$5 million not individual.	1. Not more than 30 years. 2. If death or serious injury, life. 3. Fine \$2 million individual, \$10 million not individual.			
	All (includes anabolic steroids as of 2/27/91)	Any	1. Not more than 5 years. 2. Fine not more than \$250,000 individual, \$1 million not individual.	1. Not more than 10 years. 2. Fine not more than \$500,000 individual, \$2 million not individual.			
	All	Any	1. Not more than 3 years. 2. Fine not more than \$250,000 individual, \$1 million not individual.	1. Not more than 6 years. 2. Fine not more than \$500,000 individual, \$2 million not individual.			
All	Any		1. Not more than 1 year. 2. Fine not more than \$100,000 individual, \$250,000 not individual.	1. Not more than 2 years. 2. Fine not more than \$200,000 individual, \$500,000 not individual.			

DIRECTORY

Administration	President, Vice Presidents
Building	(Instruction, Student Services, Finance and Educational Resources), Academic Services, Budget and Personnel, Diversity Office, Institutional Research, Marketing/Communications
Lobby	Gilbane Construction
ADM-101,102	Classrooms
103	Classroom
106, 109	Conference Rooms
119	Classroom
A-1	Choral Hall
A-4	Creative Arts Division Office, Faculty Offices
A-5	Ceramics/Painting Studio
A-6	Photography Studio
A-7	Sculpture Studio
A-8	Television Center
A-9	Classrooms
AT –	Special Education
Advanced	Division Office, Labs and
Technology	Classrooms for Accounting,
Center	Computer Access Lab, Computer Applications and Office Systems (CAOS), Computer Information Systems (CIS), Engineering, English, English as a Second Language (ESL), Film/TV, Graphic Design, Language, Manufacturing and Design, Mathematics, Statistics, Writing and Reading Center
Baldwin Winery	Under construction.
Hinson	Dining Rooms, Dining Services,
Campus Center	Meeting Rooms: Conference
Upper Level	Rooms A and B, Don Bautista Room, El Clemente Room, Financial Aid—Information and Assistance Office, Fireside Room, Meeting Rooms 1 and 2, Santa Cruz Room, Staff Lounge
Lower Level	Foothill-De Anza District Police, De Anza Associated Student Body (DASB) Offices, DASB Card Office, Office of College Life (formerly Student Activities), Dean of Student Development, EOPS/CARE, Financial Aid, Flea Market Office, Le Café, Health Services, Inter-Club Council (ICC) Office, Student Accounts, Student Council Chambers

How to Locate Buildings and Rooms

Building numbers are the first digit of room numbers. Example: Room S-73 is located in Building S-7.



CDC	Child Development Center
CHC	California History Center (Trianon Building)
E-1	Automotive Technology
E-2	Manufacturing and Computer Numerical Control, Faculty Offices
E-3	Classrooms, Faculty Offices
ESA	Environmental Study Area Lab
F-1 through 6	Faculty Offices
FC	Flint Center, Box Office
FOR –	Art History Slide Library/Office
Forum 1,3,4	Lecture Halls
Forum 5	Plant Services Offices
F-1,2,3	Faculty Offices
F-4,6	Faculty Offices
G-1 through 10	General Purpose Classrooms
HTCTU –	High Tech Center Training Unit
Hoefler Building	
KC – Kirsch	Applied Technologies Division Office, Biological, Health and
Center For	
Environmental	Environmental Sciences/Work-
Studies	force Education Division Office, Faculty Offices, Classrooms
LCW –	Audio Visual, Classrooms,
Learning	Educational Diagnostic Center,
Center West	International Student Office, Library West Computer Lab, Staff and Organizational Development
Library	A. Robert DeHart Learning Center, Distance Learning Center
L-1	Business/Computer Systems Division Office, Language Arts Division Office, Social Sciences/Humanities Division Office
L-2,3	Classrooms/Psychology Lab
L-4	Skills Center, Tutorial Center, Technical Writing Lab, La Voz, Red Wheelbarrow, Classrooms
L-5	Restrooms
L-6,8	Classrooms
L-7	Data Services
Mod Quad	
MQ-1	Intercultural/International Studies Division Office and Multi-cultural/International Center
MQ-2	CompTechS/Computer Donation Program, Outreach and Relations with Schools
MQ-3	Occupational Training Institute (OTI), County Office of Education
MCC	Under construction.
PE-1	Auxiliary Gyms, Physiology Lab
PE-2	Main Gym
PE-4	P.E. Division Office, Recreational Sports/Intramural Office, Faculty Offices
PE-5	Faculty Offices
PE-6	Fitness and Wellness Center, Locker Rooms, Faculty Offices
PLT –	Fujitsu Planetarium at
Planetarium	De Anza College
Science Center	Lecture Hall, Faculty Offices,
SC-1	Cooperative Education
SC-2	Labs
SC-3	Pavilion
SEM –	Under construction.
Seminar	
S-1	Geology/Physics Classrooms, Faculty Offices
S-2	Restrooms
S-3	Classrooms/Physical Science/Math/Engineering Division Office, Faculty Offices
S-4	Classrooms/Math and Science Tutorial Center, Faculty Offices
S-5	Classrooms, Faculty Offices
S-6	Restrooms
S-7	Classrooms, Faculty Offices
S-8	Nursing/Classrooms
S-9	Faculty Offices
SCS – Student	Admissions and Records, and Articulation, Assessment
Community	Center (Testing), Bookstore,
Services	Career Center, Cashier,
Building	Community Education/Short Courses, Counseling and Advising Center, Disability Support Services, Matriculation, Special Education, Transcripts, Transfer Center, Veterans Affairs
VPAC – Visual	Art History Classroom,
and	Auditorium/Lecture Hall,
Performing	Euphrat Museum of Art
Arts Center	