DE ANZA COLLEGE

50th ANNIVERSARY

2017-2018 CATALOG

TOPS in TRANSFER

...and more!


PUENTE

TABLE OF CONTENTS

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ACADEMIC CALENDAR 2017-2018

FALL QUARTER

September 25 through December 15, 2017
Last day for international students to apply for admission: June 30

Instruction begins: September 25

Final examinations: December 9-15

Holidays:
Veterans Day: November 10
Thanksgiving recess: November 23-26
Winter recess: December 16-January 7

WINTER QUARTER

January 8 through March 30, 2018
Last day for international students to apply for admission: October 31

Instruction begins: January 8

Final examinations: March 26-30

Holidays:
Martin Luther King's birthday: January 15
Presidents' Day weekend: February 16-19
Spring recess: April 2-8

SPRING QUARTER

April 9 through June 29, 2018
Last day for international students to apply for admission: January 31

Instruction begins: April 9

Final examinations: June 25-29

Holidays:
Memorial Day weekend: May 26-28

SUMMER SESSION

For the latest information, see **www.deanza.edu/calendar**.

Holiday:
Independence Day: July 4

ALTERNATIVE MEDIA

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

ACCURACY OF INFORMATION

Every effort has been made to ensure that the information in this catalog is accurate at the time of publication. Students and other users should be aware that laws, policies, rules, fees, programs and services may change, thereby altering the material in this catalog. Such changes may come in the form of statutes enacted by the federal or state government or policies and guidelines adopted by the California Community Colleges Board of Governors, state Chancellor's Office, the board of trustees or chancellor of the Foothill-De Anza Community College District, De Anza College governance, and the president of De Anza College or the president's designee. Users of this catalog should verify necessary information, which is generally found in most current form on the college website. See www.deanza.edu.

The 2017-2018 De Anza College catalog is produced by the college's offices of Communications and Curriculum with the assistance of contributors from other departments.

Mi Chang, *Senior Technician, Academic Services*
Tracy Chung-Tabangcura, *Articulation Specialist, Counseling*
Mary Clark-Tillman, *Coordinator, Academic Services*
Cynthia Smith, *Technician, Human Resources*
Leah Mieso, *Communications Associate, Communications*
Marisa Spatafore, *Associate Vice President, Communications*
Lori Susi, *Graphic Designer, inside cover photo illustration, Communications*
Martin Varela, *Director (interim), Budget and Personnel*

Photos by Gino De Grandis Photography

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

50TH ANNIVERSARY WELCOME

Dear Student,

We are honored that you have chosen to join us at De Anza, as we celebrate the college's 50th anniversary.

I know that you will find yourself at home here on our campus. De Anza is an exciting college, with wonderful faculty, classified professionals and administrators, all committed to your success.

We have terrific academic programs, athletic teams and clubs. We are committed to providing an outstanding education and a safe, supportive environment for all students. We want you to become an engaged member of this community, and we care deeply about your future.

To that end, we are planning to celebrate this anniversary year with a series of events on the theme of "Engaging the Future: The Next 50 Years." We are proud of our college and we hope you will take the opportunity to join the celebrations.

We're especially proud of our well-deserved reputation for being "Tops in Transfer." De Anza is the top Silicon Valley college for transfer and is always at or near the top statewide in community college transfers to the University of California, California State University and private universities.

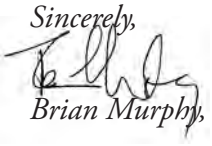
Here at De Anza, we believe all elements of a comprehensive education are crucial to your success, including a beautiful physical environment for learning. We have a number of upgraded facilities, made possible by the generosity of local voters through their approval of construction bonds. The entire campus is committed to sound environmental practices, sustainable resources and energy conservation.

The buildings are great, but our people are the most important part of De Anza. 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,



Brian Murphy, President

PATHWAY TO SUCCESS

1. Declare a major on your application (not "Undecided").
2. Select a goal of transfer, degree or certificate.
3. Take placement tests.
4. Complete orientation.
5. Create an educational plan in DegreeWorks. Read how on page 11.

These steps are best practices recommended through the Student Success Act of 2012. Following them will help you get priority enrollment (see page 31).

MISSION AND VALUES

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. The college engages students in creative work that demonstrates the knowledge, skills and attitudes contained within its Institutional Core Competencies:

- Communication and expression
- Information literacy
- Physical/mental wellness and personal responsibility
- Civic capacity for global, cultural, social and environmental justice
- Critical thinking

VALUES

De Anza values and is committed to:

INTEGRITY

We embrace honesty, credibility, clear communication and acting on our stated values. We strive to acknowledge and address issues that may be difficult to broach. The college's ability to fulfill its mission depends on a college community in which everyone feels included, respected and safe.

INNOVATION

In all of our many roles, we will continuously and purposefully reflect in order to innovate and improve. We work to ensure our physical space is welcoming, conducive to learning and environmentally sustainable. We are committed to being innovative in our daily work, curriculum and use of technology. We work with our students to be creative, flexible, imaginative and inventive, and to prepare to contribute to a world that will demand skills and competencies not yet in view.

EQUITY

We welcome students of all ages and backgrounds and connect with them, in their range of unique circumstances, to help them fulfill their dreams. We strive to design classes and services to the needs of those we serve. We value and embrace the intellectual contributions of a diverse spectrum of people and cultures. We strive for a diverse workforce that honors the contributions of all who work here.

DEVELOPING THE HUMAN CAPACITY OF ALL STUDENTS

We will provide support in six key factors of student success. Our students will be:

- *Directed*, with a goal and the knowledge of how to achieve it.
- *Focused,* staying on track to achieve that goal.
- *Nurtured*, feeling that we want to, and do, help them to succeed.
- *Engaged*, actively participating in class and extracurricular activities.
- *Connected*, feeling that they are part of the college community.
- *Valued*, with their skills, talents and abilities recognized, and with opportunities to contribute on campus and feel that their contributions are appreciated.*

INSTITUTIONAL CORE COMPETENCIES

Our students will be able to demonstrate knowledge, skills and attitudes in the following five areas:

- Communication and Expression
- Information Literacy
- Physical/Mental Wellness and Personal Responsibility
- Civic capacity for global, cultural, social and environmental justice
- Critical Thinking

CIVIC ENGAGEMENT FOR SOCIAL JUSTICE

We provide students with opportunities to enhance their potential for purposeful and productive lives. As a public institution, we contribute to the development of our local, state, national and global communities. We view our students and ourselves as agents of change, responsible for building the world in which all people are able to realize their dreams in ways that are environmentally sustainable and in alignment with the United Nations' Declaration of Human Rights. **

*From "Student Support (Re)defined," a report of the Research & Planning (RP) Group of California Community Colleges, January 2013.
**Adopted 1948.

Website: **www.deanza.edu/about/missionandvalues.html**

ABOUT DE ANZA

ACCREDITATION

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; www.accjc.org. It is an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education.

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.

INSTITUTIONAL CORE COMPETENCIES

The Institutional Core Competency statements are a promise to the communities that support De Anza College that students graduating with an A.A. or A.S. degree, or who will transfer to a four-year college or university, will be able to demonstrate the knowledge, skills and attitudes contained within all of the five competency areas, based on general education and discipline-specific courses at the lower division level. Students who earn a certificate, or have taken courses for personal educational development, will be expected to demonstrate the knowledge, skills and attitudes specified within one (or more) of the five competency areas.

COMMUNICATION AND EXPRESSION

Students will communicate clearly, express themselves creatively, interpret thoughtfully and logically, and engage actively in dialogue and discussion, while paying attention to audience, situation and (inter) cultural context. Communication and expression may be written or oral, verbal or nonverbal, informational or artistic.

INFORMATION LITERACY

Students will recognize when information is needed and locate, critically evaluate, synthesize and communicate information in various formats. They will use appropriate resources and technologies while understanding the social, legal and ethical issues for information and its use.

PHYSICAL/MENTAL WELLNESS & PERSONAL RESPONSIBILITY

Students will recognize lifestyles that promote physical and mental well-being, engage in self-reflection and ethical decision-making, explore career choices and life goals, practice effective individual and collaborative work habits, and demonstrate a commitment to ongoing learning.

CIVIC CAPACITY FOR GLOBAL, CULTURAL, SOCIAL AND ENVIRONMENTAL JUSTICE

Students will recognize their role as local, national and global citizens. They will participate in a democratic process, respect social and cultural diversity, appreciate the complexity of the physical world, and understand the significance of both environmental sustainability and social justice.

CRITICAL THINKING

Students will analyze arguments, create and test models, solve problems, evaluate ideas, estimate and predict outcomes based on underlying principles relative to a particular discipline, interpret literary, artistic, and scientific works, utilize symbols and symbolic systems, apply qualitative and quantitative analysis, verify the reasonableness of conclusions, explore alternatives, empathize with differing perspectives, and adapt ideas and methods to new situations.

– Adopted by the Academic Senate in spring 2009. Updated spring 2014.

GENERAL EDUCATION PROGRAM

The General Education Program reflects the 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

STUDENT RIGHTS AND RESPONSIBILITIES

Students at Foothill or De Anza College have guaranteed rights, and assume responsibilities, under applicable state and federal law and regulations derived from these statutes. These rights and responsibilities include protection of freedom of expression and protection against improper evaluation in the classroom; access to, safekeeping, and confidentiality of records; rights of freedom of association, inquiry and expression; participation in student governance with corresponding responsibilities; and the exercise of the rights of citizenship off campus. Foothill and De Anza College have the responsibility to establish disciplinary proceedings and applicable penalties, within the law, for the violation of college rules and regulations. The colleges shall also establish procedures for grievances and complaints in order to provide a means for resolving alleged unfair or improper action by any member of the academic community.

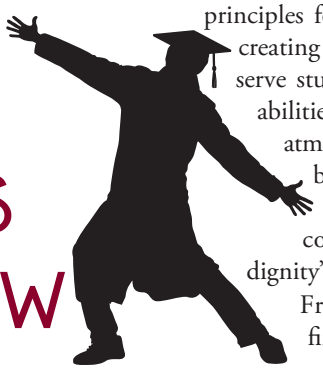
Board Policy 5500
See Administrative Procedure 5500

California Education Code,
§ 76030 et. seq., 76120, 76210 et. seq.

California Administrative Code,
Title 5, § 54600, 59300 et. seq.

– Approved 1/4/99

CAMPUS OVERVIEW



De Anza College is an institution dedicated at its core to diversity and to a multicultural learning environment.

After extensive discussion about what a De Anza graduate needs to be successful, the college in spring 2014 updated its mission statement as part of its Midterm Report to the Accrediting Commission for Community and Junior Colleges. In particular, the college focused on updating one of its Institutional Core Competencies (ICCs) to "Civic capacity for global, cultural, social and environmental justice." The revision of this ICC more clearly articulates student learning goals and allows for quantifiable outcomes. The mission statement also distills the results of strategic planning begun in 2005 and updated in 2014: commitments to Outreach, Individualized Attention to Student Retention and Success, Equity and Civic Engagement.

De Anza College offers 66 degrees, 85 certificates and more than 1,600 courses.

HISTORY

This year, De Anza College celebrates its 50th anniversary. De Anza was established in Cupertino on Sept. 11, 1967, as the Foothill Junior College District worked to meet local community demand for a second campus. Planning for De Anza began soon after the district's first campus, Foothill College, launched in temporary quarters in 1958 and filled to capacity after moving in 1961 to its permanent location in Los Altos Hills. Just four years after approving a $10.4 million bond measure for Foothill, community members readily voted in favor of a second bond measure, in the amount of $14 million, to build De Anza College.

De Anza was constructed on 112 acres of what was once a turn-of-the-century wine-producing estate that the district purchased for $1.1 million. Guiding principles for the new college called for creating an "open door" institution to serve students with a wide variety of abilities, aptitudes and interests; an atmosphere of "friendly informality between faculty members and students"; and a campus that conveyed a sense of "quiet dignity" and "higher learning."

From 3,000 students in its first year, De Anza College's enrollment has grown to more than 21,000. Students, faculty and staff reflect the highly diverse ethnicities, cultures and backgrounds that comprise contemporary Silicon Valley.

Since its earliest days, De Anza has embodied a set of fundamental values that remain embedded in its culture. A deep concern for equity and social justice took root during the college's formative years, influenced by the sweeping social and political changes of the 1960s and 1970s. In intentionally cultivating a new educational community, the founders of what became the Foothill-De Anza Community College District placed a premium on excellence and innovation, and searched out faculty with a passion for teaching.

These foundational values continue to shape De Anza's institutional character today. They are evident in De Anza's deep commitment to providing a learning environment that is inclusive and welcoming to all students, and the college's concerted effort over the past decade to achieve educational equity across racial and ethnic groups.

STUDENT SUCCESS

All De Anza students can find support through the Student Success Center, which can help them connect with a supportive community of instructors, counselors, advisers, tutors, peer mentors and study groups. The center can also direct students to study skills classes, workshops on critical thinking and time management. In addition, learning communities provide many students with a network of support as they take classes and participate in other activities as a group.

Since 2014, the college has used funding from the state's Student Success and Support Program (SSSP) to provide counselors within instructional divisions and learning communities, in which they can work closely with students and offer assistance tailored to their field of study and their educational goals. De Anza also has expanded its Office of Outreach and Relations with Schools to provide core services in high schools and work with new students on campus to assist them in completing their comprehensive educational plan, provide counseling and advising, peer support, follow-up and connection to campus resources for increased student retention and success.

These support systems are among the reasons De Anza has one of the highest university transfer rates among community colleges in California. A 2008 case study by the California Community Colleges Research and Planning (RP) Group concluded that De Anza's high transfer rate is attributable to its strategic approach to institutional development; its encouragement and support of academic excellence and achievement; its tradition of innovation; and its experimentation with ways to integrate student services with instruction. The college recently was ranked second in the state in transfer to four-year institutions, according to the State Chancellor's Office Velocity Data Mart.

De Anza's commitment to historically underserved students also is seen in its long history of programs for students with disabilities, which date to 1973. In 2016-17, the college served 1,431 students with disabilities. For the past two decades, the High Tech Center Training Unit based at De Anza College has helped faculty and staff at the state's 112 community colleges acquire skills to better serve the approximately 100,000 community college students in California with disabilities.

SUSTAINABILITY, LEARNING FACILITIES AND BOND MEASURES

Just as the civil rights movement shaped De Anza in its early days, the environmental movement has galvanized a wide range of activities on the campus among students, faculty and staff. De Anza's commitment to sustainability as a core value is evident in daily improvements ranging from 100 percent biodegradable containers and utensils in the cafeteria to drought-tolerant landscaping and weather-responsive irrigation on the grounds.

In 2016, De Anza became the first community college to be certified as a Bay Area Green Business. The program distinguishes organizations that protect, sustain and preserve the environment. The city of Cupertino also awarded the college with a GreenBiz certification, an offshoot of the Bay Area Green Business program.

Through the work of its College Environmental Advisory Group (CEAG), De Anza in 2007 became the first community college in the nation to develop its own Sustainability Management Plan to guide continual improvement. The college's Environmental Studies Department, housed in the Kirsch Center for Environmental Studies, has provided inspiration for the campus as the first "green" demonstration building in the California community colleges. The department has developed an extensive sustainability curriculum leading to certificates and degrees in four program areas. The Cheeseman Environmental Study Area contains several diversified ecosystems and is located next to the Kirsch Center for Environmental Studies.

De Anza College is committed to sustainable building materials and methods. Nine of its buildings have been certified as meeting national LEED building standards for environmental sustainability: the Kirsch Center and Media and Learning Center, LEED platinum; Baldwin Winery and the Visual Performing Arts Center, LEED silver; East Cottage, Multicultural Center, Registration and Student Services Building, Science Center and Seminar Building, LEED certified.

Among the comprehensive athletic facilities are a 5,000-seat stadium, aquatics complex, gymnasiums, and fields and courts. Specialized facilities include the Fujitsu Planetarium at De Anza College, which houses the only Infinium S Star projector outside of Japan, and the Flint Center, a 2,570-seat performing arts auditorium. These buildings, as well as the VPAC, with its 400-seat performance and lecture hall and the Euphrat Museum of Art, the California History Center and other buildings across campus, are spaces for the extensive program of cultural and educational activities that contribute to the enrichment of the students and community.

De Anza's state-of-the-art facilities have been made possible by community support of two bond measures: Measure E for $248 million was approved by Foothill-De Anza Community College District voters in 1999, and Measure C for $490.8 million was approved in 2006. In addition to construction, bond proceeds have funded extensive building renovations; upgrades of critical electrical and mechanical systems; installation of energy-producing solar arrays; and restoration of two historic campus landmarks: the old stone Baldwin Winery building, which now houses Financial Aid, and the estate's once-crumbling Trianon building, home to the college's California History Center. Facilities are available for community rental.

COMMUNITY AND CIVIC ENGAGEMENT

Community and civic engagement is a focus of the college. The Institute for Community and Civic Engagement (ICCE) was launched in 2006 to work with students on civic and leadership skills and provide them with opportunities to be agents of social, economic and political change in their communities. In 2015, the ICCE was renamed the Vasconcellos Institute for Democracy in Action (VIDA) in honor of the late state Sen. John Vasconcellos.

VIDA offers a range of opportunities for students, including a certificate in Leadership and Social Change. VIDA facilitates service learning for more than 2,000 students annually and maintains active relationships with more than 25 community partners that work with students in their service learning placements. Classes that include at least 12 hours of mandatory service are designated with an "S" and totaled on student transcripts. VIDA also sponsors an annual "Youth Voices United For Change" conference at which De Anza hosts hundreds of historically underrepresented high school students in learning about college and becoming active in the community. VIDA is working to promote a national initiative, The Democracy Commitment, to engage community college students in civic learning and democratic practice.

De Anza students also have extensive opportunities to become engaged through the active leadership of the De Anza Associated Student Body (DASB), which in addition to on-campus and community activities mobilizes in statewide advocacy efforts for public higher education.

EQUITY, SOCIAL JUSTICE AND MULTICULTURAL EDUCATION

De Anza College defines student equity not as providing each student with the same support, but rather connecting with students, in their unique range of circumstances, and supporting them in their individual journeys to academic success.

To achieve this goal, the Office of Equity, Social Justice and Multicultural Education (Equity Office) partners with college leadership, faculty, classified professionals and the Equity Action Council to provide ongoing resources, measurements and focused attention on enhancing student success. De Anza College is committed to increasing transfer rates and the awarding of degrees and certificates; improving access, course completion, course retention and persistence; and equalizing student success rates by gender, race, ethnicity and disability. The college works to address achievement and opportunity gaps by providing developmental opportunities and educational forums across the campus, and through the Equity Office, enhancing the ability of faculty, classified professionals and administrators to provide culturally responsive support and guidance for students and each other, with the goal of creating a fully inclusive community. Using the philosophy and approach of social justice and multicultural education, student equity is achieved through rigorous ongoing accountable processes that will work toward ensuring equality of outcomes in all measurements of student access and achievement.

More information on the Equity Office is available on page 11.

COLLEGE PROGRAMS AND SERVICES

ATHLETICS

De Anza is a member of the Coast Conference and the California Community College Athletic Association. Varsity teams compete in nine sports for men: baseball, basketball, swimming and diving, cross country, football, soccer, tennis, track and field, and water polo. The 10 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. Nine of those units must be attempted in units that are consistent with the student-athlete's educational plan.

Most athletic programs are on a yearlong calendar of conditioning, training and competition. Information about each program and coach can be found on the Athletics Department website.

Director Location: PE 5, Room 51F
Telephone: 408.864.8745
Website: www.deanza.edu/athletics

BOOKSTORE

The De Anza College Bookstore is located in the Registration and Student Services Building. The Bookstore is the one-stop source for textbooks, including rental textbooks, reference books, study aids and school, art and office supplies. The Bookstore is the source for De Anza College logo clothing and gifts, Scantron forms, pencils and convenience store items. The Bookstore also offers computers, software and supplies at educational discounts.

Telephone: Textbook information
408.864.8455
General information
408.864.8701
Website: http://books.deanza.edu
(includes 24-hour online textbook orders, school supplies, logo clothing orders, online faculty textbook requisitions, hours of operation, buyback dates and 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 Trianon building, 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, Californian, and local history books.

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

The CHC also houses the Audrey Edna Butcher Civil Liberties Education Initiative, which engages students and the general public on civil liberties issues.

Telephone: Executive Director
408.864.8986
Library/Archives
408.864.8987
Website: www.deanza.edu/califhistory

CHEESEMAN ENVIRONMENTAL STUDY AREA (CHEESEMAN ESA)

The Cheeseman ESA is a natural garden containing more than 400 species of plants representing 12 California native plant communities. This 1.5-acre site on the southeast corner of the campus is maintained by the Biological, Health and Environmental Sciences Division and the Environmental Studies Department. The ESA is used to conduct environmental research and contains a student laboratory for use by environmental studies and biology classes.

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 values inclusion of all children and serves as a practicum for student interns working toward their degree/certificate in the fields of Child Development or Early Intervention. 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 five years and has the capacity to provide services to more than 100 children. Parent participation is supported and strongly encouraged. For students,

the CDC offers 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 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 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 the De Anza Associated Student Body (DASB), clubs and staff, provides for numerous educational programs and events representing the college's diverse student and staff community.

Among the many services are a housing website and college posting approval. Free legal advice from a lawyer is also available.

Location: Hinson Campus Center (Lower level, near Health Services)
Telephone: 408.864.8756
Email: collegelife@deanza.edu
Website: 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 70 active clubs on campus that provide diverse opportunities for students including leadership, community service and friendships. Students can also form new clubs. For a current list of clubs, club meetings, how to start a new club and more, visit the website.

Website: 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, student support services and some instructional programs.

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

Students are encouraged to participate in the development of co-curricular programs and the formulation of general college policies. Students are involved in college governance 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.

Website: www.deanza.edu/dasb

COMMUNITY EDUCATION

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

Website: www.communityeducation.deanza.edu

EXTENDED YEAR SUMMER ENRICHMENT PROGRAM

This program is offered for students entering 1st through 10th grades. It operates for four weeks at three school sites throughout the local community. Registration begins in early March each year. The program is operated in partnership with De Anza College's Euphrat Museum of Art, Foothill College's Krause Center for Innovation and the Cupertino Union School District.

Location: Learning Center, Room 141
Telephone: 408.864.8817
Email: extendedyear@deanza.edu
Website: www.extendedyear.deanza.edu

DE ANZA SHORT COURSES

This program provides a variety of fee-based, not-for-credit courses in educational, recreational, cultural and community development.

Location: Learning Center, Room 141
Telephone: 408.864.8817
FAX: 408.864.5434
Email: shortcourses@deanza.edu
Website: www.communityeducation.deanza.edu

PLANETARIUM

The De Anza College Planetarium hosts a variety of star and laser light shows during fall and winter quarters each year. From October to July, daytime field trips can be reserved for school-age groups. The Planetarium is also available for private rentals. Visit the Planetarium website for more information.

Location: North end of Parking Lot E
Telephone: 408.864.8814
Website: www.planetarium.deanza.edu

COUNSELING AND ADVISING CENTER

Counseling and advising services assist students in establishing their educational goals and identifying support services to achieve those goals. The Counseling and Advising Center provides comprehensive services for students who seek assistance with a variety of concerns. Academic advisors assist with developing educational plans and addressing academic concerns. Counselors provide academic advising as well as educational, personal and career counseling. Services in the center include:

Academic Advising
- Individual educational planning
- Determination of transfer requirements
- Application for a certificate or degree

Educational Counseling
- Individual educational planning
- Selection of a major
- Time management
- Study skills
- Test anxiety
- Introduction to College course

Career Counseling
- Career/life planning courses
- 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. Visit the website or call to check hours the center is open each week. Typically, counselors and academic advisors are available Mondays and Thursdays, 8:30 a.m. to 5 p.m.; Tuesdays, 8:30 a.m. to 7 p.m.; Wednesdays, 8:30 a.m. to 3 p.m. and 5 p.m. to 7:00 p.m.; and Fridays, 8:30 a.m. to 1 p.m. Counselors and advisors may be seen on a drop-in basis throughout the week. Appointments are available for financial aid extensions. Appointments may be made online, by telephone or in person with the receptionist in the Counseling and Advising Center lobby.

Location: Registration and Student Services Building, 2nd floor
Telephone: 408.864.5400
Website: www.deanza.edu/counseling

DASB CARD

The purchase of a DASB Card provides benefits to 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 District police.

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

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

See College Life (Office of).
Website: www.deanza.edu/dasbcard

DINING SERVICES

Dining Services, located on the upper level of the Campus Center, serves breakfast, lunch and dinner. Menu items include an organic salad bar, hot and cold sandwiches, specialty pizzas, pasta, Vietnamese pho, Mexican food and burgers. 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
Website: www.deanza.edu/diningservices

DISABILITY SUPPORT PROGRAMS AND SERVICES (DSPS)

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
Website: www.deanza.edu/ape

DISABILITY SUPPORT SERVICES

Disability Support Services (DSS) provides services and instruction to students with physical, psychological, chronic health, hearing, visual, learning and spectrum disabilities. These services and accommodations include ASL interpreting, captioning, mobility, tutoring, assistive technology support and training as well as testing accommodations.

Visually 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, interpreting and captioning services in the classroom, and a campus liaison.

Location: Registration and Student Services Building
Telephone: 408.864.8753 (Voice)
408.864.8748 (TTY)
Email: dss@deanza.edu
Website: www.deanza.edu/dss

LEARNING DISABILITY SUPPORT

The DSS Learning Disability Support team assists students in discovering their learning styles and academic strengths and weaknesses, and assesses eligibility for learning disability services.

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 services are available to eligible students: registration assistance, tutoring, specialized instruction, and campus and community liaison.
Location: Registration and Student Services Building
Telephone: 408.864.8838
Website: www.deanza.edu/dss

HOPE PROGRAM

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

The program uses a team approach is used that considers the total individual with emphasis on the development of an individualized and prescriptive vocational and educational plan.
Locations:

- 3080 Alfred St., Santa Clara, 408.562.1836
- 1555 Parkmoor Ave., San Jose, 408.282.5012

Website: www.deanza.edu/hope

ECO PASS

The Eco Pass is a partnership between De Anza College's Associated Student Body (DASB) and Santa Clara Valley Transit Authority (VTA). Eco Pass allows currently enrolled students at De Anza College to enjoy unlimited rides on all VTA Buses and Light Rail within Santa Clara County for the duration of each quarter, provided all their fees are paid or they are on an installment payment plan. The Eco Pass is not transferable to others and is funded through a mandatory quarterly fee, which was established by DASB. Please visit the office or website for more information about the Eco Pass. See College Life (Office of).

Website: www.deanza.edu/ecopass

EDUCATIONAL PLAN/ DEGREEWORKS

Students create an educational plan in DegreeWorks, found on MyPortal. In orientation, new students learn how to create an abbreviated educational plan for the first one or two quarters. Then, students must develop a comprehensive educational plan of three quarters or more. Both orientation and an approved comprehensive educational plan are required steps in obtaining priority enrollment.

Students can also perform a degree audit in MyPortal to see what courses they have completed and which requirements remain to be completed in order to finish their degree or certificate. DegreeWorks will also indicate what percentage of their degree has been completed, and this information may be used by Financial Aid to determine if students are on track to complete their degree and maintain their financial aid eligibility. DegreeWorks also has an educational plan function that allows students or counselors to create a multi-quarter plan for registration, including their degree requirements. This plan may also be used by Financial Aid in appeals or to determine if a student has an approved plan on file.

Students who are considering a change of major can run "what if" scenarios to compare their progress in other majors. A "change major" function is available in MyPortal if students find they are making better progress in a different major/program or wish to pursue a different area of study. Students can also change their educational goal in MyPortal.

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; and early registration and university transfer services.

As 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

EQUITY, SOCIAL JUSTICE AND MULTICULTURAL EDUCATION (OFFICE OF)

The Office of Equity, Social Justice and Multicultural Education (Equity Office) promotes an academic, cultural and social environment that provides equity, social justice and academic success for all members of the campus community. The Equity Office has expanded the mission of fostering a climate of healthy diversity that values individual and group differences and respects the perspectives of others by working to eliminate barriers that perpetuate inequity, injustice and mono-cultural education. The office works to deepen acceptance and understanding of diverse cultural and ethnic groups, including racial, gender, LGBTQQI, religious, differently abled, and economic and political affinity.

More information on student equity and the Equity Office is available on page 7 and online.

Location: MLC, 250
Telephone: 408.864.5636
Email: equityoffice@deanza.edu
Website: www.deanza.edu/equityoffice

EUPHRAT MUSEUM OF ART

The Euphrat Museum of Art, located at the front of the Visual & Performing Arts Center, presents engaging 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 and events. Nationally recognized, the Euphrat program:

- Highlights the 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.

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

Location: Euphrat Museum of Art, Visual & Performing Arts Center
Telephone: 408.864.5464
Website: www.deanza.edu/euphrat

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.

APPLICATION PROCEDURE

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

ABILITY TO BENEFIT

Ability-to-benefit (ATB) options for establishing general student eligibility for federal student aid are eliminated for students who first enroll in a program of study on or after July 1, 2012. All students seeking federal financial aid will need to have a high school diploma, GED, or have been home-schooled in order to meet the academic qualifications for general eligibility.

FINANCIAL AID PROGRAMS

The following programs are offered at De Anza:

- Loans
- Federal Direct Loan
- Direct Parent Loan (PLUS)
- Book loans
- Part-time Jobs
- Federal Work Study Program (FWSP)

Grants

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

BOG A/B/C

Students admitted under AB540 are eligible to apply for BOG Fee Waivers and Cal Grants. The Cal Grant deadline for 2018-2019 is March 2, 2018.

Scholarships

Students may apply to a variety of scholarships using AcademicWorks in MyPortal. AcademicWorks personalizes scholarship recommendations for each student. The amounts and qualifications vary with each scholarship. Scholarships are offered through the college, district and outside organizations.

Location: Baldwin Winery Building
Voicemail: 408.864.8718
Email: financialaid@deanza.edu
Website: www.deanza.edu/financialaid

HEALTH SERVICES

Student Health Services provides a variety of confidential, free and low-cost services. Free services include first aid, blood pressure checks, TB testing, flu shots, over-the-counter medicines, smoking cessation, pregnancy tests, condoms and health education information. Short-term psychological and personal counseling services are also provided free of charge.

Services at reduced cost include well-woman exams, physical exams, birth control, emergency contraception and immunizations.

Location: Hinson Campus Center (Lower level)
Telephone: 408.864.8732
Website: www.deanza.edu/healthservices

HOUSING

De Anza does not have housing facilities, but the Office of College Life maintains a website listing resources for available housing. De Anza does not supervise or assume responsibility for any housing facility. Visit the website for more information and to search through the housing ads.

Website: www.deanza.edu/housing

INTERNATIONAL STUDENT PROGRAMS

The office of International Student Programs (ISP) addresses the needs of De Anza's international (F-1 Visa) students and helps them adjust to their lives in the United States. Prospective and degree-seeking international students are encouraged to contact the office, visit the campus and view ISP's website.

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 and F-1 immigration rules. 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. To protect international students from the high costs of medical care in the U.S., all F-1 students are required to purchase and subscribe to the international student

health insurance selected by the Foothill-De Anza Community College District.

Location: Registration and Student Services Building, 2nd floor
Telephone: 408.864.8826
Email: dainternational@deanza.edu
Website: www.deanza.edu/international

LEARNING COMMUNITIES (FORMERLY PATHWAY PROGRAMS)

Learning Communities provide students with the opportunity to connect more closely with classmates, instructors and advisers. By actively participating in a program, students have access to fun, friendly environments with proven success rates. Success, support and friends are hallmarks of these programs.

Website: www.deanza.edu/learningcommunities

FIRST YEAR EXPERIENCE (FYE)

FYE is an academic support program for first-time students who are also the first in their families to attend college. FYE integrates multiple fields of study with community engagement, and provides students with practical insight on how to have a successful college experience.

Students enrolled in FYE will have:

- Common readings and assignments in all classes
- Academic and personal support from a counselor
- Fun while learning and building community

Location: LCW102
Telephone: 408.864.8470
Email: fye@deanza.edu
Website: www.deanza.edu/ssrsc/fye.html

HONORS

The Honors program provides students the opportunity to explore subjects in depth. Honors projects challenge students to think more analytically and to make more connections between their classes and with the world, helping them transform themselves, their communities, and their environment. The Honors program is designed to:

- Challenge students to achieve their intellectual potential
- Improve students' critical thinking, writing and discussion skills
- Help students understand connections between disciplines
- Encourage close interaction among students and with instructors
- Support timely and appropriate university transfer objectives

Location: S33B
Telephone: 408.864.833
Email: dahonors@deanza.edu
Website: www.deanza.edu/honors

IMPACT AAPI

IMPACT AAPI is funded through an Asian American and Native American Pacific Islander-Serving Institutions (AANAPISI) grant from the U.S. Department of Education.

The program goal is to close the gaps in academic achievement and transfer among Asian American and Pacific Islander (AAPI) students at De Anza by focusing on subgroups that are historically underrepresented in higher education. The integrated curricular pathways are designed to provide educational experiences that support and challenge students.

Email: impactaapi@deanza.edu
Website: www.deanza.edu/impact-aapi

LEAD

Open to all students, Latina/o Empowerment at De Anza (LEAD) provides mentorship and opportunities for community engagement. Students in the program develop their leadership skills by engaging in course-related service learning projects while reading and writing about Latina/o culture, history, literature and social issues. LEAD classes are offered in a variety of disciplines, including English, Women's Studies, Intercultural Studies, Economics and Math. The goal of the program is to help students find a connection to the college and their communities, and to understand their power as agents for positive social change. Cornerstones of the program are community service, social justice and developing a sense of *familia.*

Location: Multicultural Center
Contact: Chesa Caparas and Brian Malone, Faculty Coordinators
Telephone: 408.864.8254
Email: lead@deanza.edu
Website: www.deanza.edu/lead

LINC

LinC (Learning in Communities) is a nationally recognized interdisciplinary approach to learning designed for student success that links two or more classes together with common themes, content and materials. The community of students and faculty work collaboratively, creating a friendly, supportive atmosphere. LinC courses are open to all De Anza students. When students enroll in LinC, they:

- Have some common readings and assignments in the linked courses
- Have academic and personal support from a counselor dedicated to LinC
- Learn more and earn more units with less stress and more fun

LinC courses are identified in the schedule of classes with the letter "D" at the end of the course number.

Email: linc@deanza.edu
Website: www.deanza.edu/linc

MATH PERFORMANCE SUCCESS (MPS)

The MPS program has award-winning success rates in working with students who have experienced challenges with math. Through a dynamic community of learners, teachers and counselors, students discover effective ways to improve in algebra and statistics.

MPS provides support through a team approach:

- Specialized instruction in a supportive environment
- Academic counseling in and out of class
- Free tutoring in and out of class
- Extra class time

De Anza also offers the STATWAY program, a two-quarter alternative to the three-quarter sequence required to complete Statistics.

STATWAY features:

- Math 217 (10-unit course)
- Math 17 (5-unit course – transferrable to UCs & CSUs)
- In and out of class tutoring
- In and out of class counseling

Location: S43
Telephone: 408.864.8851
Email: mps@deanza.edu
Website: www.deanza.edu/mps

MEN OF COLOR COMMUNITY (MC^2)

The Men of Color Community (MC2) helps students build community and lasting connections through peer mentoring and tutoring, workshops and special events. The program also offers academic advising, transfer assistance and help in maintaining priority enrollment. Students learn the skills to succeed in college and beyond.

Location: SEM3
Telephone: 408.864.5780
Email: mc2@deanza.edu
Website: www.deanza.edu/mc2

PUENTE

Puente is an award-winning national program that helps students reach their dreams, including transfer to four-year colleges and universities, by providing them with three main areas of service in a supportive and stimulating environment.

- English Instruction – Puente students take three consecutive writing classes that provide a supportive and stimulating environment with an emphasis on developing writing skills through an exploration of the Mexican American/Latino experience.
- Counseling – Students work with a counselor to identify their goals, develop an academic educational plan and explore career options. Students visit four-year institutions including University of California campuses and attend an annual Puente 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.

Location: LCW102
Telephone: 408.864.8552
Email: deanzapuente@deanza.edu
Website: www.deanza.edu/puente

READING, ENGLISH, ATHLETICS, COUNSELING & HUMANITIES (REACH)

REACH is a supportive network of instructors, counselors and coaches dedicated to student-athlete success. Student-athletes work in a team environment taking linked classes in reading, writing, humanities and counseling.

Contact: Dawnis Guevara, REACH Coordinator
Telephone: 408.864.8555
Email: reach@deanza.edu
Website: www.deanza.edu/athletics/reach

UMOJA

The Umoja program is based on an African-centered philosophy that enables students to see themselves within a positive historical and cultural context. Umoja seeks to educate the whole student – body, mind and spirit – through the construction of knowledge and critical thought. Students receive supportive services and take courses based on literature from across the African Diaspora.

Location: LCW102
Telephone: 408.864.8780
Email: umoja@deanza.edu
Website: www.deanza.edu/ssrsc/umoja

VASCONCELLOS INSTITUTE FOR DEMOCRACY IN ACTION (VIDA)

Students participating in VIDA become leaders in their communities, engaging in experience-based learning in the classroom, workplace environments and other communities and interacting with people from diverse backgrounds. Students also have the option of earning a leadership certificate. More information is available on page 7 and online.

Location: East Cottage
Contact: Cynthia Kaufman, Faculty Director
Telephone: 408.864.8739
Email: vida@deanza.edu
Website: www.deanza.edu/vida

LIBRARY SERVICES

The newly renovated Library and Library West Computer Lab contain resources for students including books, e-books, periodicals and DVDs. The building has wireless access, 162 computer workstations located in two open computer labs and the reference area, 11 group study rooms, and a laptop and graphic calculator checkout program.

Electronic resources are available 24 hours a day, seven days a week. Using the library website as a starting point, users can access e-books, scholarly articles, streaming videos and other materials. Databases such as EBSCOHost Academic Search Premier, Films on Demand, Proquest Research Library, Literature Resource Center, Lexis-Nexis and Encyclopedia Britannica are available from off campus.

The Library offers a series of classes through Online Education, which can be found in the course listings.

Two computer labs are located in the Learning Center complex. The Library West Computer Lab, in the basement of Learning Center West, has 98 computer workstations. The Library Computer Lab on the first floor of the Library has 48 workstations. In both of these labs students can check email, access the Internet and prepare projects using Microsoft Office. Both labs also have workstations with assistive technology for accessibility. Viewing stations for watching DVDs are available. The Library West Computer Lab also has materials for the Online Education Program.

Location: Library & Learning Center West
Circulation: 408.864.8761
Reference: 408.864.8479
Computer Lab: 408.864.8850
Website: www.deanza.edu/library

OCCUPATIONAL TRAINING INSTITUTE (OTI)

The Foothill-De Anza Community College District's Occupational Training Institute (OTI) offers career training for students who are eligible through CalWORKs – California Work Opportunity and Responsibility to Kids (TANF/Welfare to Work), Workforce Innovation & Opportunity Act (WIOA), Trade Adjustment Assistance (TAA) and Computer Technical Support (CompTechS). Services are designed to prepare students with the specific skills needed for the local job market.

OTI offers students a wide selection of Career Technical Education (CTE) programs such as accounting, business, computer information systems, computer science, enterprise security, health technology, network administration, paralegal studies, design and manufacturing (CNC) and many other career programs.

CALWORKS

OTI supports CalWORKs students by assisting with enrollment into transfer or career technical education programs, on-campus paid work study, advocacy and liaison with the referring county and supportive services. Students who participate in CalWORKs are eligible for reimbursement for college fees, academic, career and personal counseling/advisement, development of an approved individualized education plan, purchase of required textbooks, child care, priority registration and referrals to various community services such as health care, housing, clothing, food and a free computer for school work.

WIOA/TAA

Depending on the referring/contracting agency's policies and approved funding, students may be approved for payment of college fees, textbooks, supplies, parking fees, or other unanticipated costs. All WIOA/TAA students are eligible for a free computer for school work. If a student is referred to OTI by a contracting agency such as the Workforce Board, the agency is responsible for paying OTI's administrative fee of $693.23 per quarter, subject to change by state or district action. Students who are not referred by a contracting agency will be responsible for paying OTI's administrative fees.

COMPTECHS

CompTechS is an internship program for students who are interested in careers in Information Technology. CompTechS teaches students how to refurbish donated computers that are then made available to disadvantaged students at no cost. Students have the opportunity to work in a paid internship at a Silicon Valley company. For more information, visit the OTI Office.

Location: Seminar Building (SEM)
Telephone: 408.864.8869
Website: www.deanza.edu/oti

ONLINE EDUCATION CENTER

De Anza College offers a wide variety of online courses for students for academic credit, upgrading skills or changing careers. These courses 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 requirements for the A.A. degree or to transfer to a four-year institution. Programs are designed for individuals who may have limited time to attend on-campus classes on a regular basis and prefer the flexibility and convenience that online courses offer. For specific information on services provided to students with disabilities, please contact the Disability Support Services office on campus.

Online courses are delivered through a combination of technologies, including an online course management system and streaming video. Instructor and student interaction is facilitated online and, for some courses, through optional face-to-face meetings. In addition to using the course platform and instructional media, all courses include readings in assigned texts and supplemental materials, homework assignments and interaction with De Anza faculty and other students. Instructors are available to answer questions online, by telephone or in person at the De Anza College campus.

Access to an individual email account is a requirement to participate in most online classes. All online courses provide online course syllabi ("green sheets"). Students are encouraged to take advantage of online access to library publications and materials and the many support services available to students. Students can also use the new free online tutoring service through their online courses. The Online Education Center provides support services to faculty and students. Successful students enrolled in online courses are highly motivated, self-disciplined, possess good study skills and enjoy instruction that appeals to a variety of learning styles.

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 online through programs.

De Anza offers certificates of achievement in three subjects – Business Administration, Entrepreneurship and Network Basics – for which students can earn all required units by taking online courses. Some online courses may require on-campus participation in certain activities as detailed in the schedule of classes.

Some courses include required on-campus meetings and provide students with 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 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.

Location: Media and Learning Center, Room 210
Telephone: 408.864.8969
Email: onlineeducation@deanza.edu
Website: www.deanza.edu/online-ed

OUTREACH AND RELATIONS WITH SCHOOLS (OFFICE OF)

The Office of Outreach and Relations with Schools actively works to attract a diverse student population to De Anza College through a collaborative 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, De Anza campus tours, student conferences, and the annual New Student and Parent Open House in spring quarter. Outreach provides information about De Anza programs and services and serves 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: Seminar Building (SEM)
Telephone: 408.864.8327
Email: outreach@deanza.edu
Website: www.deanza.edu/outreach

POLICE (FOOTHILL-DE ANZA COMMUNITY COLLEGE DISTRICT)

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 students lock themselves out of their 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 the district police substation.

Location: Hinson Campus Center, Room 175 (Lower level)
Telephone: 650.949.7313
Website: www.fhdapolice.org
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.

SCIENCE RESOURCE CENTER

The Science Resource Center is located in the Science Pavilion. The resources are used by the Biology, Chemistry, Health Technology, Math, Medical Laboratory Technician, Nutrition and Health students and instructors to supplement class, laboratory and individual study. Students can also sign up to use one of the group study/meeting rooms.

The center supports the principle that learning doesn't have to stop once a student leaves the classroom; the scientific experience can continue at a time more convenient to the student. While learning is often thought to be a process of the mind, it is heavily influenced by the learner's environment – the variety of stimuli, the social aspect of the setting, the spatial context, and even the amount of ambient light and sound have all been seen to affect the learning experience. The Science Resource Center, a LEED-certified building, is well suited to the learning experience.

The center maintains an extensive collection of models, histology slides, charts and reference books as well as a comprehensive library of CD-ROMs for 21 computers available for student use.

The center is open for use to all registered De Anza College students.

Location: Science Center, Building 3, Room 3101
Hours: Monday 8:30 a.m. - 5 p.m.
Tuesday 8:30 a.m. - 5 p.m.
Wednesday 8:30 a.m. - 5 p.m.
Thursday 8:30 a.m. - 5 p.m.
Friday 8:30 a.m. - 1 p.m.
Closed on Fridays during the summer session
Telephone: 408.864.8921

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)

Many academic support efforts are organized within the Student Success Center, part of the Learning Resources Division. The SSC supports classroom instruction by helping students at all levels become better learners and gain the confidence and skills to achieve their greatest possible academic success. The programs are facilitated by trained peer tutors, faculty and staff. Qualifying students are encouraged to serve as peer tutors.

Current locations, hours, phone contacts, staff, activities and program information are available online.

Website: www.deanza.edu/studentsuccess

ACADEMIC SKILLS CENTER (SKILLS)

The Academic Skills Center offers workshops and study skills support for specific courses. Workshops are open to all De Anza students, and cover reading, writing and a variety of study skills and college success topics. Adjunct skills programs combine peer-led weekly group meetings with content and skills activities. Enrollment information is announced during the first week of classes.

Location: ATC 302

GENERAL SUBJECTS TUTORING CENTER (GENSUB)

The General Subjects Tutoring Center provides individual, group and drop-in peer tutoring in Business, Social Sciences and Humanities. Students who need assistance should apply for tutoring early in the quarter.

Location: ATC 304

LISTENING AND SPEAKING CENTER (LSC)

The Listening and Speaking Center provides a supportive environment to practice language and communication skills while making friends from all over the world. Activities and services include workshops, world languages tutoring, the Language Exchange Program, ESL software and recording rooms. Through these programs student improve conversation skills, listening ability, pronunciation and vocabulary, and build the confidence to achieve academic and professional goals.

Location: ATC 313

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 and science courses. Trained tutors provide weekly, drop-in and group tutoring in math and science. The MSTRC also provides assessment test preparation, study skills and topic-specific workshops for math and science courses.

Location: S43

WRITING AND READING CENTER (WRC)

The WRC empowers students at all levels to develop their writing and reading skills by providing drop-in, individual and group tutoring. Other academic support includes workshops and directed learning activities.

Location: ATC 309

STUDENT SUCCESS AND RETENTION SERVICES PROGRAM (SSRS)

The Student Success and Retention Services (SSRS) program is an academic enrichment and support program that facilitates the matriculation of first-generation college students and students with historically low retention, matriculation and transfer rates. 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 a 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. See SSRS programs under Learning Communities.

Location: Learning Center West 102
Telephone: 408.864.8470
Website: www.deanza.edu/ssrsc

TRANSFER CENTER

The Transfer Center, located in the Registration and Student Services Building, assists students whose goal is transferring to a four-year university. The Transfer 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
- Resource library including access to 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
- Other counseling services are available through the Counseling and Advising Center.

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

Location: Registration and Student Services Building
Telephone: 408.864.8841
Website: www.deanza.edu/transfercenter

VETERAN SERVICES

The De Anza College Veteran Services Office assists veterans, service members, spouses and other family members with the process of applying for and receiving VA Educational Benefits. De Anza certifies Chapter 33 (Post-9/11 GI Bill); Chapter 30 (Montgomery GI Bill); Chapter 1606 (Reserve GI Bill); Chapter 32 (VEAP); Chapter 35 (Dependent's Education Assistance); Chapter 31 (Vocational Rehabilitation) and tuition assistance programs.

To comply with VA regulations, students receiving VA benefits must maintain satisfactory attendance and grade point average. Students whose GPA falls below a 2.0 for one quarter are notified of unsatisfactory progress.

Location: Registration and Student Services Building, Room 127, Veteran Services Office
Appointments: available
Telephone: 408.864.8723
Website: www.deanza.edu/veterans

FINANCIAL PLANNING AND COLLEGE COSTS

STUDENT FEES

Full-time resident students enrolled in 12 units pay $31 per unit. Each quarter this will average $372 for enrollment fees, plus an average of $75 in other fees. The nonresident tuition fee is $160 per unit. The foreign student tuition fee is $160 per unit plus an enrollment fee of $31 per unit.

There are additional mandatory fees for the Campus Center, the Eco Pass and Health Services. There are also fees for students who use campus parking or take lab courses, and a voluntary fee for De Anza Associated Student Body activities. International F-1 Visa students are required to purchase comprehensive health insurance for $484 each quarter.

All fees are listed at **www.deanza.edu/registration/cashier** and are subject to change. Payment and refund policies are also listed online. Tuition and fees may be refunded under certain circumstances. Please direct questions to the Cashier's Office by email to deanzacashier@deanza.edu.

Fees are subject to change by California legislative action.

TEXTBOOKS AND SUPPLIES

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

For a very limited number of courses, there will be an access fee. These fees, shown in the Class Listings, reflect the actual cost for materials, which is usually lower than if students purchased the same items separately. Unless there is an issue of health or safety, students can either pay the fees to the Bookstore or provide their own materials of equal quality. A list of materials will be provided by the instructor upon request.

ESTIMATED ANNUAL COST OF ATTENDING DE ANZA COLLEGE

It is important for students to make financial plans for their 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 are higher for out-of-state or nonresident students and students living on their own.

De Anza College 2017-2018 Cost of Attendance

	Living at Home with No Dependents
Registration and fees	$1,515
Books and supplies	$1,854
Transportation	$1,233
Personal misc.	$3,276
Total	**$7,878**

COLLEGE/ DISTRICT POLICIES AND GUIDELINES

See all Foothill-De Anza Community College District Board of Trustees policies at www.boarddocs.com/ca/fhda/Board.nsf/Public.

ACADEMIC FREEDOM (BOARD POLICY 4190)

Academic freedom encompasses the freedom to study, teach and express ideas and viewpoints, including unpopular and controversial ones, without censorship, political restraint or retribution. Academic freedom allows for the free exchange of ideas in the conscientious pursuit of truth. This freedom exists in all service areas, including but not limited to teaching, librarianship, counseling, coordinating and all faculty-student interactions. Academic freedom is the bedrock principle of all institutions of learning and must be extended to all faculty regardless of their status as full-time, part-time, or probationary.

Faculty members have the principal right and responsibility to determine the content, pedagogy, methods of instruction, the selection, planning and presentation of course materials, and the fair and equitable methods of assessment in their assignment in accordance with the approved curriculum and course outline and the educational mission of the district, and in accordance with state laws and regulations. These rights and responsibilities include, but are not limited to, the faculty member's choice of textbooks and other course materials, assignments and assessment methods, teaching practices, grading and evaluation of student work, and teaching methods and practices.– *Approved 1/5/10*

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 or 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 (§ 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:

- Two years must have elapsed since the last quarter to be disregarded was completed.
- 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.)
- 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.
- 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.
- Students may petition for academic renewal only once.
- Student transcripts reflect all work including that disregarded through academic renewal to ensure a true, complete academic history.
- 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.

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 immigrants, 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 diploma 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 408.864.8230 for specific eligibility criteria.

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 within two weeks of a new quarter.

ADMISSION REQUIREMENTS

De Anza College admits anyone with a high school or general education diploma (GED), a proficiency certificate, or who is at least 18 years old. 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 or guardian. High school students who do not provide required documents will be dropped from their courses.

Course Repetition

Course repetition is regulated by state guidelines (§ 55042, 58161, 55024, 55045). Students may not enroll in the same course for more than a total of three times, including substandard grades and Ws (per § 55040 and 58161). Students may repeat any course for which they have earned an F, D, or NP twice, providing they have not earned any Ws for that course (§ 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 class is repeated for a third time, the GPA will include the third grade and not the first two grades. If a student does not successfully complete the course on the third attempt, the course must be completed at another college (not Foothill), or another course chosen to meet the transfer or graduation requirements as a substitute (if one exists).

Students may not 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 of time or to upgrade skills as a part of recertification.

Students who request repetition for a course prerequisite they have failed twice may repeat the course for one additional time if they have no Ws for that course. If they do not pass the third time, they should see a counselor for additional assistance and may be required to complete the course at another college.

Course Repeatability

Course repeatability occurs when a student is permitted to repeat a specific credit course(s), designated by the Foothill-De Anza Community College District as repeatable (§ 55041). These courses have limitations on how many times a student can take the course. Per Title 5 regulations, the maximum number of times a student can repeat a course in a quarter system is six times, even if the student receives a substandard grade or a "W" during one or more of the enrollments, unless otherwise specified.

At De Anza College, only the following types of courses are repeatable per Title 5 (§ 55041):

- courses for which repetition is necessary to meet the major requirements of CSU or UC for completion of a bachelor's degree
- intercollegiate athletics
- specific courses designated as Special Education that meet the criteria set forth in Title 5

Terms of repeatability for these courses are clearly stated in the course descriptions.

Active Participatory Course Limitations (Course Families)

Per the California Community College Board of Governors, a student may not have more than six enrollments in any active participatory courses that are related in content. This limitation also applies to students who receive a substandard grade (D, F, NP or NC) or withdrew from a course with a "W" for one or more of the enrollments (§ 55000).

Active participatory courses included in this restriction are courses in physical education, visual arts and performing arts offered within the Foothill-De Anza Community College District.

Both Foothill and De Anza colleges have created "Course Families" within the district to address this limitation. These families include courses from Foothill and De Anza that have been determined to contain related or similar content, and therefore, can only

be taken in any combination for no more than six enrollments.

As of fall 2013, all active participatory courses are non-repeatable and can only be taken one time subject to the limitations set forth in Title 5 (§ 55040(c)). This limitation does not contain a grandfather clause. Therefore, if a student has reached the maximum times of enrollment within a course family, then s/he cannot enroll in any course within the family again at either Foothill or De Anza.

If a student enrolls in a De Anza course that is equivalent to a Foothill course within a course family, s/he may not take the Foothill course at any time, and vice versa.

See **www.deanza.edu/registration/courserepeat.html** for more information on course repetition and repeatability.

Excessive Drops

Per state legislation approved in 2011, students may no longer enroll in the same course more than three times without successful completion. Totals may be a combination of substandard grades and withdrawals. Students who have already enrolled in the same course twice without passing should see a counselor for assistance or seek tutorial help. Students may petition to re-enroll in the same course a fourth time, but approval will be highly selective. Additional repeats will not be approved.

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.

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 enroll in classes that are enrichment, vocational or otherwise not available at their high schools. High school students may not enroll in Basic Skills (200 level), ESL, guidance or other restricted courses. It is recommended that high school students enroll in no more than 11 units during a regular term or 5.5 units during the summer. If high school students register for more than 11 units, they will be charged full fees.

High school students wishing to enroll in English, math or some science classes must complete a placement test. Information regarding appointment and placement testing times can be found on the De Anza website.

High school students attending De Anza are held to the same requirements, standards and policies as other college students, and should be aware of the Student Code of Conduct. They also receive the same FERPA (Family Educational Rights and Privacy Act) protections as other students, and their records cannot be released to family members without their consent.

High school students should be aware that course content may be adult in nature. De Anza College recommends that parents be aware of the "open" campus environment, and discuss safety and accountability issues with their student prior to enrollment.

All coursework earned at De Anza is to be reported to any transfer college or university to which the high school student applies. Transcripts will not be automatically mailed to the student or the student's high school. Grade information can be accessed through MyPortal. Official transcripts may be requested through MyPortal or via the De Anza webpage by searching on "transcripts."

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.

There are new regulations for students who have not earned a high school diploma. These students are no longer eligible for federal financial aid effective July 2012. Wherever possible, De Anza recommends that students who are close to earning a high school diploma or GED complete those requirements so that they may apply and be considered for financial aid when they attend De Anza.

EVENING AND WEEKEND CLASSES

De Anza offers a wide range of evening and weekend courses on campus and online. Certain services are available on a limited basis on Saturdays. Check the De Anza website at **www.deanza.edu** and the class listings for more information.

SUMMER SESSION

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.

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 exam scores should be submitted electronically from the College Board to De Anza College. For more information, contact the evaluations staff in the Admissions and Records Office.

Location: Registration and Student Services Building
Telephone: 408.864.5300

ANTI-DISCRIMINATION

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 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 of the Rehabilitation Act of 1973 (P.L. 93-112), and the Americans With Disabilities Act as amended (ADAAA) in 2008. 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), or Sec. 504 of the Rehabilitation Act of 1973 should contact the dean of Student Development at 408.864.8218 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 the dean of Student Development and EOPS at 408.864.8218, or the dean's designee.

All complaints will be reviewed in terms of Title VI and Title IX law, and the people 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 college administration 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.

ANTI-DISCRIMINATION 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 de1964, 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 Derecho Civiles de 1964, Title IX de la Enmienda a la Educación de 1973 (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在註冊課程，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爲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咨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 Nation 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 chánh 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, 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 nạp 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 uỷ 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 uỷ 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**

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. Faculty may drop students for excessive absences, which will contribute to the total allowable enrollments in a course. (See "Excessive Drops" on page 21.)

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**. Course audits may not be approved to override repetition rules.

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 mandates and accreditation standards.

COMPUTER AND NETWORK USE

Rights and Responsibilities (Board Policy 3250)

Foothill-De Anza Community College District ("district") owns and operates a variety of computer and communication systems, including voicemail, electronic mail (email), 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 email 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:

- to protect the integrity of computer systems;
- under time-dependent, critical operational circumstances;
- as required by and consistent with the law; or
- 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, email, 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 Procedure 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 catalog, 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 website 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 Procedure 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 Procedure 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.boarddocs.com/ca/fhda/Board.nsf/Public**.

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 their account who engages in any misuse in violation of Board Policy 3250 or of this AP 3250.
- Forging email 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, email 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 websites 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 students not only to academic sanctions from the college but also criminal and civil penalties, including a lawsuit against students by the Recording Industry Association of America (RIAA).

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, § 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 website 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.

CONTINUOUS ENROLLMENT

For the purpose of determining the catalog year used to evaluate degree or certificate eligibility requirements, students must be continuously enrolled in for-credit courses since the first term of enrollment. Continuous enrollment is equal to at least two quarters each academic year at De Anza or Foothill College. A single "W" in a term qualifies as enrollment in that term.

COURSE OFFERINGS (GUIDELINES FOR)

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:

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

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.

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:

- Students must be enrolled in the courses and the instructor has outlined successful completion requirements.
- No course may be challenged after meeting twice the number of meetings per week.
- Students may not request CBE for courses for which they have already earned a grade.
- CBE units may not be used to meet the 24 residency units required to earn a De Anza degree.
- No more than 45 CBE units may be earned.
- 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.
- 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, AUTO 51A and 51B *(Must pass A and B classes to receive credit.)*

DMT 80

Biological, Health and Environmental Sciences

HTEC 50, 60A, 73

NURS 50

Business and Computer Science

ACCT 1A, 1AH

CIS 2, 31, 50, 66, 67A, 67B, 74, 75A *(CIS classes that have lab hours are not challengeable.)*

Creative Arts

ARTS 53

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 61A

Physical Science/Math/Engineering

None

Social Sciences and Humanities

ADMJ 1, 95

PARA 94, 95

POLI 10, 95

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 STATISTICS (CLERY ACT)

In accordance with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act (Clery Act), codified at 20 U.S.C. § 1092(f), De Anza College provides a crime statistics report. The most current information is available on De Anza's Campus Security webpage at **www.deanza.edu/collegeops/security.html**. The full Clery Act Annual Security Report may be obtained through the Foothill-De Anza Police Department at **www.fhdapolice.org**.

DASB CARD POLICIES

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.

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.

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.

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.

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.

If the DASB Card is lost, stolen or damaged, the Card Office should be notified immediately.

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.

REPLACEMENT FEE

The replacement fee is $5.

If a person is not registered for one full year, s/he will not be charged a replacement fee for a new card.

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

Students are advised not to give their card to anyone at any time. If the DASB Card is lost, stolen or 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.

If the DASB Card is found or 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.

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

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

CLERY ACT STATISTICS

CRIMINAL OFFENSES	ON CAMPUS			ADJACENT PUBLIC PROPERTY			DESIGNATED NON-CAMPUS PROPERTY		
	2014	2015	2016	2014	2015	2016	2014	2015	2016
Criminal Homicide	0	0	0	0	0	0	0	0	0
Sexual Offenses Forcible	0	2	0	0	0	0	0	0	0
Sexual Offenses Non-Forcible	0	1	0	0	0	0	0	0	0
Robbery	2	0	1	0	0	0	0	0	0
Burglary	4	4	1	0	0	0	0	0	0
Aggravated Assault	2	0	0	0	0	0	0	0	0
Motor Vehicle Theft	3	3	4	0	0	0	0	0	0
Arson	0	1	0	0	0	0	0	0	0
Dating Violence	0	0	1	0	0	0	0	0	0
Domestic Violence	0	1	1	0	0	0	0	0	0
Stalking	1	0	0	0	0	0	0	0	0
Hate Crimes	0	0	2	0	0	0	0	0	0
SPECIAL CATEGORY ARRESTS/REFERRALS	**ON CAMPUS**			**ADJACENT PUBLIC PROPERTY**			**DESIGNATED NON-CAMPUS PROPERTY**		
	2014	2015	2016	2014	2015	2016	2014	2015	2016
Liquor Laws	0	0	1	0	0	0	0	0	0
Drug Violations	4	5	8	0	0	0	0	0	0
Weapons Violations	0	3	0	0	0	0	0	0	0

standards are contained in the Foothill-De Anza Community College District Administrative Procedures on Student Rights and Responsibilities, AP5510 and AP5520. 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 and in Administrative Procedures 5510 and 5520.

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 college's Student Rights and Responsibilities Policy (see district Board Policy 5500 and Administrative Procedure 5500) and, at the same time, assume certain obligations for their personal conduct as set forth in the college's Student Code of Conduct (Administrative Procedure 5510) and Due Process and Discipline Procedures (Administrative Procedure 5520). For additional information, refer to the Student Rights and Responsibilities Policy, which can be obtained from the offices of the college president, vice president of Instruction, vice president of Student Services, dean of Student Development or the Office of College Life.

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.
- 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 Procedure 5050 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. Exam schedules are published online. Two hours will be scheduled for examinations.

Final examinations for courses shorter in length than one quarter will be given at the 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

Full-time students (those taking 12 or more quarter units) must have a quarterly GPA of 3.30 or higher.

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. At least 75 percent of the class must have been completed to qualify for Incomplete status.

IP In Progress. The "IP" symbol denotes that the student is registered for this course, and the grading period is not complete. In Progress work will not appear on a student's transcript until the term has officially begun. It will remain on the transcript until the student has either officially withdrawn ("W") or a grade has been assigned.

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 after the first two weeks of a regular 12-week term and/or 20 percent of a course if a shorter term course. A W will be assigned to all drops between 20 percent and 75 percent of a term. After this period, a student can be awarded a W only by means of an Extenuating Circumstance Petition, in which s/he provides documentation proving "verifiable reason" such as illness, incarceration, etc. In the absence of the petition and documentation, a grade will be assigned to the student record. While a W will not be used in calculating GPA, Ws will be used as a factor in probation and dismissal procedures. (See section on "Progress Probation.") Ws are also used to calculate enrollment limits; that is, students may not enroll in the same course more than three times, which includes both Ws and substandard grades.

P-NP Courses

De Anza College uses the P-NP grade for courses authorized by the Board of Trustees and Title 5. Students must request the P/NP option within the first 30 percent of the course, either online or through the Admissions and Records Office.

- Some courses are P/NP only and a letter grade cannot be assigned. Check the course description for information on grade type for the course. Letter grades are not available in these courses.
- Other courses may allow the P-NP option. Students should be aware that some transfer schools may not accept P-NP as an option, and once the P-NP option has been chosen, it cannot be reversed per state regulations.
- No more than 30 units of P-NP classes can be applied toward an A.A./A.S and no P may be applied to a student's major requirements unless the course is only P-NP. Requirements for a major or area of emphasis.

  – each course toward the unit requirement of this subdivision must be completed with a grade of C or better or a "P"

  General Education Requirements

  – "satisfactorily completed" means either credit earned on a "pass-no pass" basis or a grade point average of 2.0 or better in community college
- Units earned in P-NP will not be calculated in the GPA; however, NP shall be considered when determining Academic Progress, probation and dismissal procedures. (See section on Progress Probation)

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 regularly perform a degree audit through DegreeWorks (see page 11) to monitor academic progress in reaching educational goals and meeting graduation requirements. In the quarter preceding the quarter in which a student plans to graduate, a detailed review and comparison of completed coursework should be done. This will allow time to make any necessary schedule changes. Students may seek assistance from a counselor/adviser as needed.

Degrees are awarded at the end of all terms.

GRADUATION HONORS

The following graduation honors are granted to those students who fulfill the requirements for an Associate degree and earn the following grade point average for all units applied toward the degree:

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

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 and six units of elective credit.

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.

De Anza College will not tolerate behavior that infringes on the safety of any student. A student shall not intimidate, harass another student through words or actions. Such behavior includes: direct physical contact, such as hitting or shoving; verbal assaults, such as teasing or name-calling; social isolation or manipulation; and cyberbullying by any means including email, text and social networks/media.

NONSMOKING POLICY

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. This includes e-cigarettes.

In addition, the district does not allow use of marijuana or cannabis products on campus. These are prohibited under federal law.

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. Those rules are based on California Government Code Section 7596; Board of Trustees Policy 3217. Noncompliance will result in fines.

OFF-CAMPUS ACTIVITIES/TRIPS

Certain portions of the 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 Title 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 by completing the *required* Student Field Trip/Excursion Agreement Voluntary Assumption of Risk Form.

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.

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. Disabled parking areas are marked with signs and blue striped stalls.

College quarterly and annual decals are available online and from the cashier's office. One-day permits can be purchased from machines in the parking lots. Daily parking permits cost $3. Permit machines take credit cards and cash; no change provided.

The 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.

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.

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- **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

Students may challenge prerequisites and corequisites if they can demonstrate that:

- they 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 Registration and Student Services Building.

PRIORITY ENROLLMENT

State and local requirements for priority enrollment went into effect in fall quarter 2014. The changes are intended to help new students get started by following important steps for success and to reward continuing students who are making steady progress toward their goals.

Students must

1. Declare a major on their application – not "Undecided."
2. Select a goal of transfer, degree or certificate.
3. Take placement tests.
   Placement tests must be taken before a student registers for English, English as a Second Language, Mathematics, Chemistry 1A, Biology 6A or Biology 40A, and should be taken prior to orientation. Students may be exempt from placement testing if they have completed relevant college-level coursework. Complete information on placement tests and clearing prerequisites is available at the Assessment Center website, **www.deanza.edu/admissions/placement**.
4. Complete orientation.
   Orientation provides important information students need to succeed in college. The requirement may be fulfilled either through an orientation workshop or the online orientation. See **www.deanza.edu/counseling/newstudents.html** for details.
5. Complete an educational plan through DegreeWorks. New students develop an abbreviated educational plan for their first one or two quarters. Continuing students should have a comprehensive educational plan for three or more quarters.

A student's major and educational goal may be changed through MyPortal.

In order to receive priority enrollment, students cannot have completed more than 150 quarter units in degree-applicable courses. "W" and "I" grades are not included. Pre-collegiate English, ESL and Math classes do not count toward the 150 units.

Priority Enrollment Order

In accordance with new state and local regulations, students will be assigned registration dates in the following order.

1. **Veterans, Foster Youth, DSPS, EOPS, CalWorks and Tribal TANF students** who have completed orientation, assessment and an educational plan.
2. **Continuing students** who have
   - Selected an educational goal of transfer, degree or certificate
   - Declared a major and have not been on probation for two consecutive terms
   - Completed orientation, assessment and an educational plan
3. **New college students** who have
   - Completed assessment, orientation and an educational plan
   - Selected an educational goal of transfer, degree or certificate
   - Declared a major
4. **New college students** who have
   - Selected an educational goal of transfer, degree or certificate
   - Declared a major and have not been on probation for two consecutive terms but have not completed assessment, orientation or an educational plan
5. **Returning students** and **new transfer students** who have
   - Selected an educational goal of transfer, degree or certificate
   - Declared a major and have not been on probation for two consecutive terms
6. **All other college students**, including continuing students who have not declared a major or who have not selected an educational goal of transfer, degree or certificate
7. **Concurrently enrolled high school students**

The most current information on priority enrollment is available at **www.deanza.edu/registration/priority-enrollment.html**.

PROBATION (ACADEMIC AND PROGRESS)

Academic probation occurs when a student has attempted a total of 18 quarter units and earned a cumulative GPA of less than 2.0.

Students will be placed on academic probation each quarter (excluding summer) as long as their cumulative GPA is below a 2.0.

Students will advance to the next level of academic probation in each consecutive enrolled quarter in which they do not earn a cumulative GPA of 2.0. Students who earn a cumulative GPA of less than 2.0 for five consecutive enrolled quarters will be dismissed. Students have the option to appeal their dismissal status.

Beginning fall 2016, new state regulations are in effect that may impact your Board of Governors Fee Waiver (BOG) eligibility. Visit **www.deanza.edu/financialaid/feewaivr.html** for more information and the Loss of BOG/Priority Registration Appeal Form. Current and detailed information on the De Anza Probation policy can be found on the Counseling and Advising website at **www.deanza.edu/counseling/probation.html**.

Important Note:

The De Anza College Probation/Dismissal system might not accurately reflect the correct academic probation status for students who have enrolled at both Foothill College and De Anza College. Students who are enrolled within the current quarter at both colleges or have an academic history with both colleges, should go to the Counseling Center at De Anza College for assistance regarding their probation/dismissal status at De Anza.

If at any time students attend both De Anza College and Foothill College in

the Foothill-De Anza Community College District, it is their responsibility to keep track of their grades to ensure that they remain in good standing at each college. Although students may be in good standing at Foothill College, if at De Anza College they fall below the required academic performance, the above probation and dismissal procedures will apply to them at De Anza.

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.

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 therefore may have to be handled both internally through college administrative action and externally by the appropriate law enforcement agency. Within the college, allegations of sexual assault and/or rape will be fully investigated by the college administration. 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 or Health Services, the strictest 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:

- Conduct of a sexual nature that is explicitly or implicitly made a term or condition of an individual's employment or education.
- A decision based on the submission to or rejection of a sexual advance.
- 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 the dean of Student Development and EOPS at 408.864.8218 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 the dean of Student Development and EOPS at 408.864.8218 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. Students 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

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unlawful harassment or discrimination. If students feel they may have been subjected to unlawful harassment or discrimination, they should refer to the sexual harassment and/or antidiscrimination sections of the catalog.

If students feel that their student rights have been violated by the college–in one instance, or over a period of time in a series of events–they 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 in this step-by-step summary. Students should read them carefully if they decide to file a grievance.

Procedures:

Step 1. Students must first try to solve the problem informally. Meet with the other person(s) involved and try to solve the problem. Ask for help from any De Anza community member.

Step 2. If students still aren't satisfied, they can file a formal grievance. Upon the recommendation of the appropriate dean or administrator, students can file a grievance form. They must provide the specific rule or law (Students Rights and Responsibilities) that they feel was violated, as well as all the details of the events(s), and copies of any pertinent documents. Don't delay–to file a grievance students must be currently enrolled or have been within 30 days before filing, and they must have learned of the particular event or the latest of a series of events no more than 30 days before they file. (Regardless of when students learned of the events(s), if the alleged violation(s) happened more than a year in the past the 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 or the office of the vice president of Student Services. Assistance is available for completing the form from any faculty or staff member; or ask for help from the DASB.

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

Step 5. The Grievance Review Board will review the grievance and will decide if it met the standards for filing and the basic standards of legitimacy for consideration. The office of Student Development and EOPS will contact them if their grievance warrants a hearing, 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. Students can have with them, or be represented by, any other person who is not an attorney. Students 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. The board will decide, based on the outcome of the grievance, what relief (if any) students should be granted, and will forward their recommendation to the dean of Student Development and EOPS. Students 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 AND CAMPUS SECURITY ACT

In accordance with the federal Student Right-to-Know and Campus Security Act, De Anza College provides completion and transfer rates of the student cohort entering for the first time in fall quarter 2013:

- Students completing A.A./A.S./Certificate: 29.3%
- Students who transferred to university: 10.32%

A cohort is made up of students entering college for the first time in the fall term who declared a goal of transfer, associate degree or certificate and attended full time. These students were tracked over a three-year period.

Completers are students who attained a certificate or degree or became "transfer prepared" during a three-year period. Students who completed 60 transferable units with a GPA of 2.0 or better are considered transfer prepared.

A transfer student is defined as a student who transferred to a postsecondary institution prior to attaining a degree, certificate or becoming transfer prepared during a five-quarter period.

Also in accordance with federal law as amended and with subsection renamed the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act (Clery Act), De Anza College provides a crime statistics report. See "Crime Statistics (Clery Act)" on page 27. Most up-to-date information is available at the Campus Security webpage at **www.deanza.edu/collegeops/security.html**.

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:

- Not attend college if s/he has a contagious condition (i.e., TB, measles, hepatitis, etc.)
- Not attend college if s/he is under the influence of alcohol or illicit drugs.
- Have a physical exam on file if s/he is an intercollegiate athlete, or is in an allied health program.

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- Notify the Admissions and Records Office if s/he will be absent for a week or more due to an illness.
- Observe sound personal hygiene habits.
- 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.
- 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.
- Adhere to safety regulations and use safety equipment and protective devices as required.
- 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 class listings at **www.deanza.edu/schedule**.

TITLE IX

De Anza is committed to creating and sustaining a safe educational and working environment free of

- Sex discrimination
- Sexual harassment
- Sexual violence
- Domestic violence
- Dating and acquaintance violence and stalking

Title IX of the Education Amendments of 1972 prohibits sex (gender-based) discrimination and harassment in educational programs and activities at institutions that receive federal financial funding, including for employment, academic, educational, extracurricular and athletic activities.

This federal law:

- Protects all people regardless of their gender or gender identity from sex discrimination, including sexual harassment and sexual violence, which are forms of discrimination, and
- Requires institutions to take necessary steps to prevent sexual assault on their campuses, and to respond promptly and effectively when an assault is reported.

For complete information, resources and contacts, including

- Health Services
- Psychological Services
- Campus Police

visit **www.deanza.edu/titleix**.

To File A Complaint

Contact: Title IX Coordinator
Stacey Cook, Vice President, Student Services
Location: Administration Building, Room 122
Telephone: 408.864.8989
Email: cookstacey@deanza.edu

TRANSCRIPTS

Students can order transcripts through MyPortal or online. Transcripts will be electronically submitted or mailed in hard copy, depending on the arrangement with the receiving institution. Students are entitled to two free transcripts; subsequent orders will be subject to published fees.

TRANSFER CREDIT FROM OTHER COLLEGES

Students transferring from another accredited institution may request to use some of this credit to meet De Anza requirements. Official transcripts should be sent directly from the transfer institution to Admissions and Records. A request for transcript evaluation should be submitted to Admissions and Records after the transcript has been received by De Anza. Students may also deliver a sealed, official transcript to Admissions and Records, along with a request for transcript evaluation. Upon review, eligible transfer credit will be applied to the student's De Anza record. Transfer review is not immediate and varies depending on the volume of requests.

Students who want prior coursework used as a prerequisite for a De Anza course must submit a prerequisite clearance form, along with an unofficial copy of their transcript, to the Assessment Office for review. This transcript will not be evaluated for other transfer credit, but as a prereq clearance only. Prerequisite clearance forms are available on the Assessment website.

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 Admissions and Records.

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Non-Accredited Colleges
Transfer credit will be denied in cases in which transfer work is completed at an institution that is not accredited or is not accredited by a recognized accrediting body.

Transfer Credit from Other Institutions

Students who have attended other colleges and universities can have their courses evaluated for transfer credit. Only lower division (e.g. freshman and sophomore level) transfer credit from schools accredited by a regional institutional accrediting organization can be evaluated. Students must provide official transcripts to the Admissions and Records Office for evaluation. To be official, transcripts must either be sent directly from the issuing school or hand delivered in their original sealed college envelope.

Students who have attended any foreign institution should first meet with a counselor or advisor to review their coursework since foreign transfer credit has several limitations.

Prerequisites
Students who would like registration prerequisite cleared with course completed at another regionally accredited school need to submit their unofficial transcript together with their prerequisite clearance to the Admissions and Records Office.

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 of a semester unit. Conversely, a semester unit is equal to one and a half 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 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 Counseling.

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

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

Students meeting the above criteria who wish 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.

DEGREE AND CAREER 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 during the day, evening, or on weekends.

ASSOCIATE DEGREE PROGRAMS

(Associate in Arts and Associate in Science)

While many students seek an associate degree in preparation for immediate entry into the job market, earning an associate degree also serves as excellent preparation for transfer to a four-year college or university. By earning an associate degree, students indicate to potential employers, transfer institutions and society that they have specialized knowledge in a particular area of study. Degree completion also signals that students have gained critical and analytical thinking ability, information literacy, written and oral communication skills, and the ability to consider issues with cultural, global, social and environmental awareness.

Students are strongly advised to meet with a counselor early to decide which degree best suits their academic needs and for assistance in planning their course of study.

ASSOCIATE DEGREE REQUIREMENTS

(Associate in Arts and Associate in Science)

- 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, another California community college, CSU or UC for 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.
- 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.
- Students must demonstrate proficiency in reading, written expression and mathematics.
- General education requirements for the A.A./A.S. must be completed as outlined in this catalog. 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.
- 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.
- 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.

TRANSFER AND DEGREE PROGRAMS

Associate Degrees for Transfer. The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an "associate degree for transfer," a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (A.A.-T.) or the Associate in Science for Transfer (A.S.-T.) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (A.A.-T. or A.S.-T.) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. While a minimum GPA of 2.0 is required for admission, some majors may require a higher GPA. Students transferring to a CSU campus that does accept the A.A.-T. or A.S.-T. will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option

for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

Associate in Arts-Transfer (A.A.-T. degree)
Similar to the A.A. degree, the A.A.-T. degree is awarded to students who complete all of the lower division major preparation requirements for a related major in academic areas such as the liberal arts, social sciences and related fields other than science, technology, engineering or mathematics for one or more local CSU campuses. This degree also requires completion of either the CSU General Education/Breadth requirements or the Intersegmental General Education Breadth Requirements (IGETC). Students who plan to complete this degree and who wish to transfer to a non-local CSU, UC or other college or university are advised to meet with a counselor for assistance in developing their educational plan.

Note: Additional transfer degrees are being developed. For more information, please see individual departments and **www.deanza.edu/aatastdegrees**.

Associate in Science-Transfer (A.S.-T. degree)
Similar to the A.S. degree, the A.S.-T. degree is awarded to students who complete all of the lower division major preparation requirements for a related major in the areas of science, technology, engineering or mathematics for one or more local CSU campuses. This degree also requires completion of either the CSU General Education/Breadth requirements or the Intersegmental General Education Breadth Requirements (IGETC). Students who plan to complete this degree and who wish to transfer to a non-local CSU, UC or other college or university are advised to meet with a counselor for assistance in developing their educational plan.

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 by the college issuing the degree must still be met.

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

- Provide official transcripts from other colleges to the Admissions and Records Office.
- 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

Students must complete the prescribed number of courses in the major for each certificate.

Certificate of Achievement
Required units range from 18 to 26. Each major course must be completed with a minimum C grade. Up to six 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 212 or higher level mathematics; or by qualifying for MATH or 114 on the De Anza mathematics placement test.
- English proficiency is required in addition to major courses: eligibility for EWRT 1A or EWRT 1AH or ESL 5. This proficiency may be demonstrated by: qualifying for EWRT 1A or EWRT 1AH 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 EWRT 1AH); or completing ESL 272 and 273, earlier ESL courses that were prerequisites to ESL 5.

Skills Certificate Programs
Some academic departments also offer Skills Certificates. 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 composed 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.

ACADEMIC YEAR 2017-2018 CERTIFICATES AND DEGREES AT A GLANCE

Certificates and Degrees	Skills Certificate	Certificate of Achievement	Certificate of Achievement-Advanced	AA/AS Degree
Accounting		◆	◆	◆
Administration of Justice				
Corrections/Probation				◆
Law Enforcement				◆
Private Security			◆	◆
Art				
Art History			◆	◆
Ceramics				◆
Museum Studies	◆			
Painting				◆
Sculpture				◆
Automotive Technician (Evening)				
Basic Engine Performance Technology		◆		
Intermediate Engine Performance Technology		◆		
Advanced Engine Performance Technology		◆	◆	◆
Automotive Chassis Technology		◆	◆	◆
Automotive Machining and Engine Repair Technology		◆	◆	◆
Automotive Powertrain Technology		◆	◆	◆
Smog Technician		◆		
Automotive Technology (Day)				
Advanced Automotive Technology		◆		
Automotive Chassis and Powertrain			◆	◆
Automotive Engine Performance			◆	◆
Automotive Machining and Engine Repair			◆	◆
Biological Sciences				◆
Business Administration		◆		◆
Entrepreneurship		◆		
Child Development		◆	◆	◆
Early Childhood Mental Health		◆		
Early Intervention/Special Education Assistant			◆	
Communication Studies		◆		◆
Computer Information Systems				
Database Design for Developers (Oracle)		◆		
Enterprise Security Professional		◆	◆	◆
Network Administration		◆	◆	◆
Programming/Network Programming				
Business Programming			◆	◆
Network Basics		◆		
Network Programming			◆	◆
Programming in C/C++		◆		
Programming in Java		◆		
Programming in Perl		◆		
Programming in Python		◆		
Systems Programming			◆	◆
UNIX/LINUX Operating System		◆		
Visual Basic Programming		◆		
Web Development		◆		
Design and Manufacturing Technologies				
Computer Aided Design - Mechanical		◆		
CNC Machinist		◆	◆	◆
CNC Programming - CAD/CAM		◆		
CNC Research and Development Machinist			◆	◆
Product Model Making			◆	◆
Quality Control Technician		◆		
English				◆
Environmental Studies				
Energy Management and Building Science		◆	◆	◆
Environmental Resource Management and Pollution Prevention		◆	◆	◆
Facility and Sustainable Building Management		◆	◆	◆
Wildlife Science Technician		◆	◆	◆
Film/TV				
Film/TV: Animation				◆
Film/TV: Production		◆	◆	◆
Film/TV: Screenwriting				◆
Global Studies	◆		◆	◆
Graphic and Interactive Design		◆	◆	◆

Certificates and Degrees	Skills Certificate	Certificate of Achievement	Certificate of Achievement-Advanced	AA/AS Degree
Health Technologies				
Business Office Clerk		◆		
Insurance and Coding		◆		
Lab Assisting		◆		
Medical Assisting			◆	◆
Medical File Clerk		◆		
Medical Reception		◆		
Medical Records Clerk		◆		
Medical Secretary			◆	
Medical Transcription		◆		
Phlebotomy Technician I		◆		
Humanities		◆		
Intercultural Studies	◆		◆	◆
Journalism				◆
Leadership and Social Change		◆		
Liberal Arts				
Arts and Letters				◆
Business and Computer Information Systems				◆
Science, Math, and Engineering				◆
Social and Behavioral Sciences				◆
Management		◆		◆
Mandarin		◆	◆	
Marketing Management		◆		◆
Massage Therapy		◆	◆	◆
Medical Laboratory Technology (MLT)			◆	◆
Clinical Laboratory Assistant		◆		
Music				◆
Nursing				
LVN Transition to RN				◆
Registered Nurse (RN)				◆
Paralegal Studies			◆	◆
Photographic Arts (Film and Digital)				◆
Professional Photography (Film and Digital)		◆		◆
Project Management Practitioner		◆		
Real Estate		◆		◆
Women's Studies		◆		

Associate Degree for Transfer to CSU (AA-T & AS-T)	AA/AS Degree
Administration of Justice	◆
Anthropology	◆
Business Administration	◆
Communication Studies	◆
Computer Science	◆
Early Childhood Education	◆
Economics	◆
English	◆
History	◆
Journalism	◆
Kinesiology	◆
Mathematics	◆
Political Science	◆
Sociology	◆

Each student may earn multiple certificates and degrees.

Award Type	*Quarter Units*
Certificate of Achievement	18-26
Certificate of Achievement-Advanced	27+
Associate Degree (including GE)	min. of 90
Associate Degree for Transfer (including GE)	min. of 90
Skills Certificate*	Units vary

* ***Skills Certificates are awarded by the department and are not notated on official transcripts.***

Certificates and degrees are subject to change. Check with the department.

TRANSFER PROGRAMS

Students who plan 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 numerous 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 websites 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 122.)

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 De Anza courses 1-199 are non-degree applicable and which De Anza 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 confirm transfer credits and to develop an effective educational plan for transfer. While students are strongly advised to work with counselors/academic advisers, the final responsibility for the selection of proper courses rests with the student.

COURSE IDENTIFICATION NUMBERING SYSTEM (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by De Anza College or other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. The C-ID designation can be used to identify comparable courses at different community colleges. For example, students who complete SPCH 16 (C-ID COMM 130) at De Anza College can be assured that the course will be accepted in lieu of a course bearing the C-ID COMM 130 designation at another community college.

However, students should always consult **www.ASSIST.org** for specific information on C-ID course designations and to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor or academic adviser to determine how C-ID designated courses fit into their educational plans for transfer.

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 website, **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:

Accounting
Administration of Justice
Advertising
Aeronautics/Aviation
Aerospace Engineering
African American Studies
Agricultural Sciences
American Literature and Culture
American Studies
Anthropology
Applied Mathematics
Art/Art History/Creative Arts/Visual and Public Arts/World Arts and Culture
Asian Studies
Astrophysics
Athletic Training
Behavioral Sciences
Biochemistry
Bioinformatics
Biological Sciences

Bioresource Sciences
Biotechnology
Botany
Business Administration (Accounting Information Systems, Corporate Financial Management, Entrepreneurship, Finance, General, Human Resource Management, Management, Management Information Systems, Marketing)
Chemical Engineering
Chemistry
Chicano Studies
Child Development
Civil Engineering
Cognitive Science
Communication Studies
Computer Engineering
Computer Science
Conservation and Resource Studies
Construction Management
Creative Arts
Criminal Justice
Dance
Dental Hygiene
Dentistry
Design: Graphic/Industrial/Interior
Earth and Planetary Science
Economics/Business Economics/ Quantitative Economics
Education
Electrical Engineering
Engineering (several different options)
English
Environmental Design
Environmental Studies/Environmental Science/Ecology
Ethnic Studies
Exercise Science
Film Studies
Food Science
Forensic Science
Forestry
French
Genetics and Plant Biology
Geography
Geology/Earth Science
Geophysics
German
Government
Graphic Communication
Health and Community Services
Health Science
History
Hospitality Management
Human Biology
Human Development
Humanities
Industrial Arts
Industrial Technology
International Studies/International Relations/International Business
Italian
Japanese
Journalism: Radio/Television/Film
Kinesiology
Landscape Architecture
Latin American Studies
Legal Studies
Liberal Studies
Linguistics
Literary Journalism
Literature
Marine Biology
Mathematics/Statistics
Mechanical Engineering
Media Studies
Meteorology
Microbiology
Music/Ethnomusicology
Nanoscience/Nanoengineering
Natural Resources
Neuroscience
Nuclear Engineering
Nursing
Nutrition
Occupational Therapy
Ophthalmology
Peace and Conflict Studies
Pharmacology/Pharmaceutical Science
Philosophy
Photography
Physical Education
Physical Science
Physics
Physiology and Cell Biology
Political Economy and Industrial Societies
Political Science
Pre-Professional Schools: Law, Medicine, Optometry, Veterinary Science
Psychobiology
Psychology
Public Health
Public Relations
Quality Assurance
Radio/Television/Film
Recreation
Rehabilitation Services
Religious Studies
Rhetoric
Robotic Engineering
Russian
Social Science
Social Welfare
Social Work
Sociology
Software Engineering
Spanish
Speech Communication
Speech Pathology/Audiology
Teaching
Theatre Arts
Urban Studies
Women's Studies
Zoology

ASSIST (ARTICULATION WEBSITE)

ASSIST is the official statewide repository for articulation information. ASSIST is the primary website where students can identify specific De Anza College courses that fulfill general education and/or major preparation requirements at the UC and CSU. 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 websites are also available at **www.ASSIST.org**.

TRANSFER PLANNING WEBSITE

The De Anza College Transfer Planning website at **www.deanza.edu/transfer/** offers a wide variety of information including but not limited to:

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

- Transfer Admission Agreement/ Guarantee Program (TAA/TAG) including the CCCCO-HBCU Guaranteed Transfer program
- Links to UC, CSU and Independent College/University websites
- Important dates, deadlines and updates
- AP and IB exam credit for CSUGE and IGETC
- Transfer events

UNIVERSITY OF CALIFORNIA

The University of California (UC) 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 available, the size of the student body and the physical settings are just a few of the factors that contribute to the individual character of each campus. Entrance requirements vary as well. Academic preparation and grade point average are used by the campuses and programs in the selection process. Criteria vary from year to year and from campus to campus based on the number and qualifications of applicants to each campus and program. For more information about campuses, consult the university general catalogs available online. Complete information on the UC may be found at **www.universityofcalifornia.edu/admissions/transfer/index.html.**

The UC will award graduation credit for up to 105 lower-division quarter/60 semester units of transferable coursework from a community college. Courses in excess of 105 quarter/70 semester units will receive subject credit and may be used to satisfy university subject requirements. However, there is no limit on the number of units used to determine the UC grade point average (GPA); all UC-transferable units will apply.

* *Residency Status: The requirements for California residents also apply to dependents of University of California graduates and employees. The manner in which legal residence is defined for tuition purposes is different. For questions about residency status, contact the Admissions or Registrar's Office at the prospective UC campus.*

Minimum Admission Requirements For Transfer Applicants Who Are California Residents*

The following information was taken from the UC Admissions website. For more information about transfer admission to UC, visit **www.universityofcalifornia.edu/admissions/transfer/index.html**. De Anza College is not responsible for any changes the UC may make to this information after publication of this catalog.

A transfer applicant is a student who has enrolled in a regular session at another college or university following high school. Students who meet this definition cannot disregard their college records and apply as freshmen. A student who attends a college summer program immediately after graduating from high school or who has completed college work while in high school is still considered a freshman applicant.

The following requirements represent the minimum academic standards transfer students must attain to be eligible for admission to the UC. It is important to understand that meeting the minimum requirements does not guarantee admission. Often, admission to UC campuses and/or programs is extremely competitive and requires students to satisfy more demanding standards.

Junior-level transfer

Students who were not eligible for admission to the university when they graduated from high school because they did not meet the scholarship requirement must fulfill both of the following to be eligible for UC admission at the junior level:

- Complete 90 quarter (60 semester) units of transferable college credit with a GPA of at least 2.4 (2.8 for nonresidents). No more than 21 quarter (14 semester) units may be taken Pass/Not Pass.
- Complete the following 7-course pattern requirements, earning a grade of C or better in each course:
  - Two transferable college courses (4-5 quarter or 3 semester units each) in English composition
  - One transferable college course (4-5 quarter or 3 semester units each) in mathematical concepts and quantitative reasoning
  - Four transferable college courses (4-5 quarter or 3 semester units each) chosen from at least two of the following subject areas:
    - Arts and humanities
    - Social and behavioral sciences
    - Physical and biological sciences

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

Visit **www.ASSIST.org** to view a list of UC-transferable courses and those that specifically meet the UC's 7-course pattern.

Lower-division transfer

Keep in mind that junior-level transfer students from a California Community College (CCC) are given priority consideration for admission to UC, however, few UC campuses admit lower-division students. The following are ways that students may be eligible for admission at the lower-division level:

- If students had met the minimum requirements for admission to UC when they graduated from high school – meaning they satisfied the subject, scholarship and examination requirement, or were identified by the university during their senior year in high school as eligible in the local context – they are eligible to transfer if they have a C (2.0) average in their transferable college coursework (2.8 GPA for nonresidents).
- If students had a minimum required GPA in high school but did not satisfy the 15-course subject requirement, they must take transferable college courses in the missing subjects, earn a C or better in each required course and have an overall C (2.0) average in all transferable coursework to be eligible to transfer (a 2.8 GPA is required for nonresidents).

Nonresidents

The minimum admission requirements for nonresidents are very similar to those for residents. Transfer students who are not California residents may consult with the Admissions Office at a UC campus to confirm admission requirements. In all cases, however, nonresidents must have a

grade point average of 2.8 or higher in all transferable college coursework.

In addition to satisfying UC admission requirements, transfer students must fulfill additional requirements before graduating. Some, such as the American history and institutions requirement and the entry-level writing requirement, are UC-wide. Other requirements — such as major preparation and general education — vary according to the campus a student plans to attend and the particular college or school and major.

While at a CCC, transfer students are advised to consult with a counselor or academic adviser, research UC campus catalogs and university websites and to contact a UC campus Admissions Office to review appropriate course selection.

CALIFORNIA STATE UNIVERSITY

The following information was obtained from the California State University (CSU) website. Information about CSU transfer admission requirements is available at **www.csumentor.edu/planning/transfer**.

De Anza College is not responsible for any changes CSU may make to this information after publication of this catalog.

Students who complete college units after the summer following graduation from high school are considered transfer students. The number of units completed at the time they enter a CSU determines the admission standards that will apply to their application. It is important to identify which admission requirements apply.

Upper-Division Transfer Admission Requirements

An applicant who completes 60 or more semester (90 or more quarter) transferable units is considered an upper-division transfer student.

The CSU gives priority admission consideration to all California Community College (CCC) students who meet the CSU upper-division transfer admission requirements and the highest priority admission to applicants that have earned an Associate Degree for Transfer from a CCC.

To qualify for admission as an upper-division transfer, applicants must complete 90 or more quarter (60 or more semester) transferable units and have met the following requirements:

- Completed at least 45 quarter (30 semester) units of general education courses, with a grade of C or better in each course, including:
- All general education requirements in communication in the English language (12-15 quarter or 9 semester units) consisting of one course in written communication, one course in oral communication, one course in critical thinking (CSUGE Area A), and one course in mathematics/ quantitative reasoning (CSUGE Area B4).
- The mathematics course must have intermediate algebra as a pre-requisite. Go to www.ASSIST.org for listings of courses at every CCC that meet the CSU general education requirements;
- Acquired a cumulative grade point average of 2.0 or better in all transferable college units attempted; and
- Are in good standing at the last college or university attended (i.e. eligible to re-enroll at that college or university).

Lower-Division Transfer Admission Requirements

An applicant who completes fewer than 90 quarter (60 semester) units of college credit is considered a lower-division transfer student. Due to enrollment pressures, most CSU campuses do not admit lower-division transfers so that more upper-division transfers can be accommodated.

Having fewer than 60 semesters (90-quarter) units at the point of transfer may affect eligibility for registration priority at CSU campuses and may affect the student's financial aid status.

California resident transfer applicants with fewer than 90 quarter (60 semester) units must:

- have a cumulative grade point average of 2.0 (C) or better in all transferable units attempted;
- be in good standing at the last institution attended; and
- meet any one of the following eligibility standards:

  Transfer Based on Current Admission Criteria

  The applicant meets the freshman admission requirements in effect for the term for which application is being made, or

  Transfer Based on High School Eligibility

  The applicant was eligible as a freshman at the time of high school graduation and has been in continuous attendance in an accredited college since high school graduation, or

  Transfer Based on Making Up Missing Subjects

  The applicant had a qualifiable eligibility index at the time of high school graduation (combination of GPA and test scores if needed), has made up any missing college preparatory subject requirements with a grade of C or better, and has been in continuous attendance in an accredited college since high school graduation.

Many CSU campuses have impacted majors while several CSU campuses are impacted in all majors. Students interested in an impacted major or campus must apply for admission during the initial application filing period. Applications for admission to impacted majors and campuses are not accepted after the initial filing period. Consideration for admission to any impacted major or campus is contingent on first meeting the regular admission requirements for the CSU (NOTE: As a result of impaction, completion of the minimum eligibility requirements may not be sufficient for admission). Supplementary admission criteria are used to screen all applicants for admission to impacted majors.

INDEPENDENT, PRIVATE AND OUT-OF-STATE COLLEGES AND UNIVERSITIES

Independent, private and out-of-state colleges and universities have different transfer admissions requirements. For information on California institutions, visit **www.californiacolleges.edu**. This website provides online resources to help students choose institutions that best match their needs and interests. Information on transfer admission requirements for out-of-state colleges and universities can be found in catalogs and university websites.

TRANSFER ADMISSION AGREEMENTS

Transfer Admission Agreements (TAA), also referred to as a Transfer Admission Guarantee (TAG), are commitments that select colleges and universities make with De Anza students who fulfill 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 to the university. Transfer Admission Agreements are generally written one year prior to transfer.

Students may prepare for a TAA by working with a De Anza counselor/academic adviser early in their academic career. This early relationship helps to establish a foundation for transfer and development of an education plan. With a TAA in place, students have the knowledge that each course completed 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:

University of California

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

Independent Colleges

- The American University of Paris
- Arizona State 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

Determine transfer goals early.

Deciding on a college and a major you are interested in will enable you to focus your planning efforts to meet specific goals. It is recommended that you start researching possibilities early in your college career and plan with alternative colleges and majors in mind.

Be Competitive – Be "Transfer Ready" Do not wait until the last quarter to take math and English. Take placement tests early.

Complete transferable math and English requirements as early as possible. Develop a 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.

Research college(s) of choice.

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

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

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

Complete an education plan with a counselor/adviser.

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 47 and 49), 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.

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.

Develop relationships with instructors, counselors and advisers.

Applications for admission and scholarships may require letters of recommendation.

Keep 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.

Check and update your email on a regular basis.

Most colleges are using email as primary means of communication. Make sure colleges have your current email address on file and check messages often to ensure you comply with any requirements and meet deadlines.

Keep on top of deadlines.

GENERAL EDUCATION REQUIREMENTS 2017-2018

Effective Fall 2017 through Summer 2018

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 and 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 comprising 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 or California State University, you may want to complete the requirements listed under the IGETC or CSUGE Breadth. See pages 46-50 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 websites 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)

Quarter Units

Area A: Communication, Expression, Critical Thinking, and Information Literacy **10-15**
1. English Composition
2. Oral Communication
3. Critical Thinking
(if completing the AS degree this sub-area is satisfied)

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 ICS course in Area C or D)

Area E: Physical/Mental Wellness and Personal Development **2-5**
2 units minimum. At least one unit must be completed from Dance, Kinesiology, 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 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: 32-43

California State University (CSU) GE Breadth—All Campuses General Education/ Breadth Requirements

Quarter Units

Area A: English Language Communication and Critical Thinking **12-15**
1. Oral Communication
2. Written Communication
3. Critical Thinking

Area B: Scientific Inquiry and Quantitative Reasoning **12-15**
1. Physical Science
2. Life Science
3. Laboratory Activity
4. Mathematics/Quantitative Reasoning

Area C: Arts and Humanities **12-15**
Select three courses, with at least one course in Arts and one course in Humanities (One ICS course in Area C or D)
1. Arts
2. Humanities

Area D: Social Sciences **Min. 12-15**
Select three courses from at least two disciplines (One ICS course in Area C or D)

Area E: Lifelong Learning and Self-Development **4-5**

Minimum Units: 58

You must request certification by completing the official certification form available at the Admissions and Records Office and in the Counseling and Advising Center or online at www.deanza.edu/counseling/forms.html.

* ESL 6 restricted to students whose native language is not English.

UC/CSU—All Campuses** Intersegmental General Education Transfer Curriculum (IGETC)

Quarter Units

Area 1: English Communication **10-14**
a. English Composition
b. Critical Thinking – English Composition
c. Oral Communication **(CSU only)**

Area 2: Mathematical Concepts & Quantitative Reasoning **4-5**

Area 3: Arts & Humanities **12-15**
At least three courses including one from Arts and one from Humanities.

Area 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.)

Area 5: Physical & Biological Sciences **9-12**
At least two courses, one Physical Science and one Biological Science; one must include a laboratory.

Area 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 online at www.deanza.edu/counseling/forms.html

** See a counselor/academic adviser about UC professional schools and colleges that do not accept IGETC.

General Education/Breadth Requirements for A.A./A.S. Degree for 2017-2018

Effective: Fall 2017 through Summer 2018

De Anza College

☑ **Use boxes in left margin to check when areas/requirements are completed.**

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 114 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: COMMUNICATION, EXPRESSION, CRITICAL THINKING, AND INFORMATION LITERACY — 10 - 15 Quarter 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, 1AH or **ESL** 5▲ — **5 Units**

☐ **A2 - Oral Communication** - Select one course:
COMM 1, 1H, 10, 10H — **5 Units**

☐ **A3 - Critical Thinking** - For the A.A. degree, select one of the following courses: (If completing the A.S. degree, this sub-area is satisfied.)
COMM 8, 8H, 9, 15, 15H, **EWRT** 2, 2H, **EDUC** 46, **MATH** 10, 10H, 17, 44, 46, **PHIL** 3, 4, 7 — **0-5 Units**

AREA B: NATURAL SCIENCES — 4 - 6 Quarter Units

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

Biological Sciences: **ANTH** 1, 1H, 1/1L, 1H/1L, 7, **BIOL** 6A, 6AH, 6C▲, 6CH▲, 10▲, 10H▲, 11▲, 13, 15▲, **ESCI** 1▲, 1▲/1L, 19▲, 20▲, 30@▲, **E S** 2@▲

Physical Sciences: **ASTR** 4, 4/15L, 10, 10/15L, **CHEM** 1A, 10, 25, **GEO** 1▲, **GEOL** 10, 20, **MET** 10, 10/10L, 10/20L, **PHYS** 2A, 4A, 10

AREA C: ARTS AND HUMANITIES — 8 - 9 Quarter Units

Select **one** course from the **Arts** category and **one** course from the **Humanities** category.

☐ **C1 - Arts: ARTS** 1A, 1B, 2A, 2B, 2C, 2D, 2F*, 2G, 2H, 2J, 2K, 2L, 3TC@, 3TD, 3TE, **DANC** 38A, **E S** 3▲@, **F/TV** 1, 1H, 2A@ 2AW@, 2B@, 2BW@, 2C@, 2CW@, 75G, **HUMI** 1@▲, 1H@▲, 15, **ICS** 5, 33, 45, **INTL** 10, 21, 22, 23, 24, **MUSI** 1A, 1B, 1C, 1D, 1E, **PHTG** 7, 21, **THEA** 1, **WMST** 3C@

☐ **C2 - Humanities: ELIT** 8, 10, 11, 12, 17, 19, 21, 22, 24*, 39, 40, 41, 44, 46A, 46B, 46C, 47A, 47B, 48A, 48B, 48C, **ESL** 6▲, **EWRT** 1B, 1BH, 1C, 30, **E S** 2@▲, **F/TV** 2A@ 2AW@, 2B@, 2BW@, 2C@, 2CW@, **FREN** 1, 2, 3, 4, 5, 6, **GERM** 1, 2, 3, 4, 5, 6, **HNDI** 1, 2, 3, **HIST** 6A@, 6AH@, 6B@, 6BH@, 6C@, 6CH@, **HUMI** 1@▲, 1H@▲, 2, 5, 6, 7, 9, 9H, 10, 13, 16@, 18, 18H, 20, **ICS** 11, 12, 24, 35, 44, 46, **INTL** 11, 13, **ITAL** 1, 2, 3, **JAPN** 1, 2, 3, 4, 5, 6, **KORE** 1, 2, 2H, 3, 3H, **LING** 1, **MAND** 1, 2, 3, 4, 5, 6, **PERS** 1, 2, 3, **PHIL** 1, 2, 8, 14A, 14B, 14C,20A, 20B, 20C, 24, 30, 49, **RUSS** 1, 2, 3, **SIGN** 1, 2, 3, **SPAN** 1, 2, 3, 4, 5, 6, **VIET** 1, 2, 3, 4, 5, 6, **WMST** 21, 49

AREA D: SOCIAL AND BEHAVIORAL SCIENCES — 8 Quarter Units

Select **two** courses from **Area D**.

☐ **ADMJ** 29*, **ANTH** 2@, 2H@, 3, 4, 5, 6, 68, **ARTS** 3TC@, **BUS** 21, **C D** 10G, 10H, 12, **COMM** 7*, 7H*, 16@, 16H@, 70, 70H, **CIS** 2@, **ECON** 1, 1H, 2▲, 2H▲, 3▲, 4, 5, **E S** 1▲, 2@▲, 3@▲, **F/TV** 10, **GEO** 4▲, 5, 10, **HIST** 2, 3A, 3AH, 3B, 3BH, 3C, 3CH, 6A@, 6AH@, 6B@, 6BH@, 6C@, 6CH@, 7A*, 7B*, 9@, 9H@, 10, 10H, 16A*, 16B*, 17A, 17AH, 17B, 17BH, 17C, 17CH, 18A*, 18B*,19A, 19B, 28*,

☐ **HUMA** 10@, 50@, **ICS** 2A, 2B, 4, 7, 7H, 9, 10, 16A, 16B, 17▲, 17H▲, 18A, 18B, 19, 20, 21, 22, 25▲, 26, 27▲, 27H▲, 28, 29, 30, 31, 32, 36▲, 37, 38A, 38B, 41, 42, 43, 47, 55, **INTL** 5, 8, 19A, 19B, 33, **JOUR** 2, **POLI** 1▲, 2▲, 3▲, 5▲, 15*▲, 16*▲, 17*▲, 17H*▲, 56, **PSYC** 1, 3, 6, 8@, 9@, 10G, 10H, 12@, 14@, 51@, **SOC** 1, 5▲, 14, 20▲, 28, 29, 35, **WMST** 1@▲, 3C@, 8, 9@, 9H@, 12@, 22, 24, 25, 26, 27, 28, 29, 31

AREA E: PHYSICAL/MENTAL WELLNESS AND PERSONAL DEVELOPMENT — 2 - 5 Quarter Units

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

Personal Development:

ANTH 2@, 2H@, **BUS** 56, **C D** 61, 64, **COMM** 16@, 16H@, **CIS** 2@, **CLP** 70, **E S** 2@▲, **ESCI** 30@▲, **HLTH** 21, **HIST** 9@, 9H@, **HUMA** 10@, 20, 50@, **HUMI** 16@, **KNES** 45, 50A (2 units), 51A (2 units), 52 (2 units), 53, 54, **MASG** 50A, **NUTR** 10, **PSYC** 8@, 9@, 12@, 14@, 51@, **WMST** 1@▲, 9@, 9H@, 12@

Dance (DANC) / Kinesiology (KNES) / Physical Education (PE) / Physical Education - Adapted (PEA) Activities:

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

KNES 1A, **1**B, **1**C, **1**CX, **1**D, **1**DX, **2**A, **2**AX, **2**B, **2**BX, **5**A, **5**AX, **5**B, **5**BX, **5**C, **5**CX, **6**A, **6**AX, **7**A, **7**AX, **7**D, **7**DX, **7**G, **7**GX, **7**H, **11**A, **11**AX, **12**A, **12**AX, **12**B, **12**BX, **12**D, **12**DX, **12**E, **12**EX, **12**G, **12**H, **12**HX, **12**J, **12**JX, **15A, 15**AX, **15**C, **15**CX, **15**E, **15**EX, **15**EY, **16A, 16**AX, **16**AY, **16**B, **16**BX, **19A, 19**AX, **19**D, **19**DX, **19**E, **19**EX, **19**G, **19**GX, **22**A, **22**AX, **22**B, **22**BX, **22**C, **22**CX, **22**D, **22**DX, **22**E, **22**EX, **25**A, **25**AX, **25**B, **25**BX, **26A, 26**AX, **26**B, **26**BX, **29A, 29**B, **30**A, **30**B, **30**BX, **30**C, **31**A, **31**AX, **31**B, **31**BX, **31**C, **31**CX, **32**A, **32**AX, **32**B, **32**BX, **32**C, **32**CX, **32**D, **32**DX, **33**A, **33**AX, **33**AY, **36**A, **36**AX, **37**A, **37**AX, **37**B, **37**BX, **37**C, **37**CX, **37**D, **37**DX, **37**E, **38**A, **38**AX, **38**B, **38**BX, **38**C, **38**CX, **38**D, **38**DX, **39**A, **39**AX, **39**B, **39**BX, **39**C, **39**CX, **39**DX, **42**A, **42**AX, **42**B, **42**BX, **42**C, **42**CX, **42**D, **42**DX, **50**AL, **51**AL

P E 32B, **32**F, **32**G, **32**H, **32**HX, **32**I, **32**IX, **32**J, **32**JX, **32**K, **32**L, **32**LX,**32**M, **32**MX, **32**N, **32**P, **32**S, **32**SX, **32**T, **32**W, **38**W, **38**WX, **38**WY, **39**M, **39**MX, **39**MY, **39**W, **39**WX, **39**WY, **40**, **40**X, **40**Y, **41**, **41**X, **41**Y, **42**W, **42**WX, **42**WY, **43**, **43**X, **43**Y, **44**M, **44**MX, **44**MY, **44**W, **44**WX, **44**WY, **45**, **45**X, **45**Y, **46**, **46**X, **46**Y, **47**M, **47**MX, **47**MY, **47**W, **47**WX, **47**WY, **48**M, **48**MX, **48**MY, **48**W, **48**WX, **48**WY

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

☐ **REQUIREMENT: One ICS course selected from Area C or D above (course may be double-counted to meet Area and ICS requirements)**

☐ **REQUIREMENT: One Environmental Sustainability and Global Citizenship (ESGC) approved course (▲) selected from Area A, B, C, D, or E above (course may be double-counted to meet Area and ESGC requirements)**

Total Units (32 - 43 Quarter Units)

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

▲ - Course meets ESGC requirement.

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

Transfer to All Campuses - California State University (CSU)

CSU General Education/Breadth Requirements for 2017-2018

Effective: Fall 2017 through Summer 2018◆

De Anza College
21250 Stevens Creek Blvd.
Cupertino, California 95014

Student Name: _____ **Campuswide ID:** _____

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 **www.assist.org**. 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 admission to the university, students must submit a request for certification to the De Anza College Admissions and Records Office. G.E. Certification Request Forms are available at the Admissions & Records Office, through the Counseling & Advising Center, and online at **www.deanza.edu/counseling/forms.html**.

Use the columns located to the right to track units in-progress/planned and completed: **IP/P** = In-Progress/Planned **C** = Completed	Units IP/P	Units C
AREA A: ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING **12-15 Quarter Units** At least **1 course each** from **Areas A1, A2 and A3**. All courses must be completed with a grade of C or better.		
A1 – Oral Communication **COMM** 1, 1H, 10, 10H Other Course: _____ College: _____ **No AP/IB Exam Credit for Area A1**		
A2 – Written Communication **EWRT** 1A, 1AH **or ESL** 5 Other Course: _____ College: _____ AP Exam Credit:_____ Qtr. Units: _____		
A3 – Critical Thinking Select one course from the following: **COMM** 8, 8H, 9, 15, 15H **or EWRT** 2, 2H **or PHIL** 3, 4, 7 Other Course: _____ College: _____ **No AP/IB Exam Credit for Area A3**		
AREA B: SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING **12-15 Quarter Units** At least **1 course each** from **Physical Science**, **Life Science** and **Mathematics/Quantitative Reasoning**. At least **1 science course** must contain a laboratory component. Courses with a laboratory are underlined.		
B1 – Physical Science **ASTR** 4, 4/15L, 10, 10/15L, **CHEM** 1A, 1B, 1C, 10, 25, 30A, 30B, **GEO** 1, **GEOL** 10, 20, **MET** 10, 10/10L, 10/20L, **PHYS** 2A, 4A, 10 Other Course: _____ College: _____ AP/IB Exam/CLEP Credit: _____ Qtr. Units: _____		
B2 – Life Science **ANTH** 1, 1H, 1/1L, 1H/1L, 7, **BIOL** 6A, 6AH, 6B, 6C, 6CH, 10, 10H, 11, 13, 15, 26, 40C, **ESCI** 1, 1/1L , 19, 20 Other Course: _____ College: _____ AP/IB Exam/CLEP Credit: _____ Qtr. Units: _____		
B3 – Laboratory Activity (Underlined courses in Areas 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 course from the following**:** **EDUC** 46, **MATH** 1A, 1AH, 1B, 1BH, 1C, 1CH, 1D, 1DH, 2A, 2B, 10, 10H, 11, 12, 17 (thru summer 2019), 22, 23, 41, 42, 43, 44, 46, **PSYC** 15, **SOC** 15 Other Course: _____ College: _____ AP/IB Exam/CLEP Credit: _____ Qtr. Units: _____		
AREA C: ARTS AND HUMANITIES **12-15 Quarter Units** Select **3 courses**, with at least **1** course in the **Arts** and **1** course in the **Humanities**. **One ICS** course must be taken in **Area C** or **Area D**. **EWRT** 1B, 1BH or **ESL** 6 is strongly recommended for students who do not select **COMM** 9 or **EWRT** 2, 2H or **PHIL** 3 in **Area A3**.		
C1 – Arts: (Arts, Cinema, Dance, Music, Theater) **ARTS** 1A, 1B, 2A, 2B, 2C, 2D, 2F*#, 2G, 2H, 2J, 2K, 2L, 3TC#, 3TD, 3TE, **DANC** 38A, **E S** 3#, **F/TV** 1#, 1H#, 2A#, 2AW#, 2B#, 2BW#, 2C#, 2CW#, 75G, **HUMI** 1#, 1H#, 15, **ICS** 5#, 33, 45, **INTL** 10, 21, 22, 23, 24, **MUSI** 1A, 1B, 1C, 1D, 1E, **PHTG** 7, 21, **THEA** 1, **WMST** 3C# Other Course: _____ College: _____ AP/IB Exam Credit: _____ Qtr. Units: _____		
C2 – Humanities: (Literature, Philosophy, Languages Other than English) **ESL** 6, **ELIT** 8, 10, 11, 12, 17, 19, 21, 22, 24*, 39, 40, 41, 44, 46A, 46B, 46C, 47A, 47B, 48A, 48B, 48C, **EWRT** 1B, 1BH, 1C, 30, **F/TV** 1#, 1H#, 2A#, 2AW#, 2B#, 2BW#, 2C#, 2CW#, **FREN** 1, 2, 3, 4, 5, 6, **GERM** 1, 2, 3, 4, 5, 6, **HNDI** 1, 2, 3, **HIST** 6A#, 6AH#, 6B#, 6BH#, 6C#, 6CH#, **HUMI** 1#, 1H#, 2, 5, 6, 7, 9, 9H, 10, 13, 16#, 18, 18H, 20, **ICS** 11#, 12, 24, 35, 44, 46, **INTL** 11, 13, **ITAL** 1, 2, 3, **JAPN** 1, 2, 3, 4, 5, 6, **KORE** 1, 2, 2H, 3, 3H, **LING** 1, **MAND** 1, 2, 3, 4, 5, 6, **PERS** 1, 2, 3, **PHIL** 1, 2, 8, 14A, 14B,14C, 20A, 20B, 20C, 24, 30, 49, **RUSS** 1, 2, 3, **SIGN** 1, 2, 3, **SPAN** 1, 2, 3, 4, 5, 6, **VIET** 1, 2, 3, 4, 5, 6, **WMST** 21, 49 Other Course: _____ College: _____ AP/IB Exam/CLEP Credit: _____ Qtr. Units: _____ (C1 or C2) Other Course: _____ College: _____ AP/IB Exam (C1/C2)/CLEP Credit (C2): _____ Qtr. Units: _____		

◆ - Courses may be added to CSUGE mid-academic year. These will be highlighted and identified in **bold print**, followed by the effective start term in parentheses. Visit **www.deanza.edu/transfer** and **www.assist.org** for updates during the spring 2018 term.

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

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

Use the columns located to the right to track units in-progress/planned and completed: **IP/P** = In-Progress/Planned **C** = Completed	Units IP/P	Units C
AREA D: SOCIAL SCIENCES **12-15 Quarter Units** Select **3 courses** from at least **2 disciplines**. **One ICS** course must be taken in **Area C** or **Area D**. The **U.S. History, Constitution, and American Ideals (AI)** is a CSU graduation requirement, and it is strongly recommended that it be completed before transfer. This requirement may be fulfilled by completing **2 courses**: **POLI** 1 **and one** of the following U.S. History courses (**HIST** 17A, 17AH, or 17B, 17BH, or 17C, 17CH). These courses may be used as part of the 12-15 quarter units required in **Area D**.		
ADMJ 29*, **ANTH** 2, 2H, 3, 4, 5, 6, **ARTS** 2F*#, 3TC#, **BUS** 21, **C D** 10G, 10H, 12, **COMM** 7*, 7H*, 70, 70H, **CIS** 2#, **ECON** 1, 1H, 2, 2H, 3, 4, 5, **E S** 1, 3#; **F/TV** 10, **GEO** 4, 5, 10, **HIST** 2, 3A, 3AH, 3B, 3BH, 3C, 3CH, 6A#, 6AH#, 6B#, 6BH#, 6C#, 6CH#, 7A*, 7B*, 9#, 9H#, 10, 10H, 16A*, 16B*, 17A, 17AH, 17B, 17BH, 17C, 17CH, 18A*, 18B*, 19A, 19B, 28*, **HUMA** 10#, 50#, **ICS** 4, 5#, 7, 7H, 9, 10, 11#, 16A, 16B, 17, 17H, 18A, 18B, 19, 20, 21, 22, 25, 26, 27, 27H, 28, 29, 30, 31, 32, 36, 37, 38A, 38B, 41, 42, 43, 47, 55, **INTL** 5, 8, 19A, 19B, 33, **JOUR** 2, **KNES** 54, **POLI** 1, 2, 3, 5, 15*, 16*, 17*, 17H*, **PSYC** 1, 3, 4, 5, 6, 8#, 9#, 10G, 10H, 12#, 14#, 24, 51#, **SOC** 1, 5, 14, 20, 28, 29, 35, **WMST** 1#, 3C#, 8, 9#, 9H#, 12#, 22, 24, 25, 26, 27, 28, 29, 31 Other Course: _____ College: _____ AP Exam/CLEP Credit: _____ Qtr. Units: _____ Other Course: _____ College: _____ AP Exam/CLEP Credit: _____ Qtr. Units: _____ Other Course: _____ College: _____ AP Exam/CLEP Credit: _____ Qtr. Units: _____		
AREA E: LIFELONG LEARNING AND SELF-DEVELOPMENT **4-5 Quarter Units** No more than 2 units of DANC/KNES/P E/PEA activity courses may apply.		
***Non-Activity Courses*:** **BUS** 56, **CLP** 70, **C D** 64, **COMM** 16, 16H, **CIS** 2#, **E S** 2, **ESCI** 30, **HLTH** 21, **HIST** 9#, 9H#, **HUMA** 10#, 20, 50#, **HUMI** 16#, **KNES** 50A (2 units), 51A (2 units), 52 (2 units), 53, **NUTR** 10, **PSYC** 8#, 9#, 12#, 14#, 51#, **WMST** 1#, 9#, 9H#, 12#		
Dance (DANC) Activity Courses*:** **DANC 22**, **22**K, **22**L, **22**M, **23**A, **23**B, **23**C, **23**L, **23**M, **23**N, **24**A, **24**B, **24**C, **25**A, **25**B, **37**A, **37**B, **37**C ***Kinesiology (KNES)/Physical Education (P E) Activity Courses: **KNES 1**A, **1**B, **1**C, **1**CX, **1**D, **1**DX, **2**A, **2**AX, **2**B, **2**BX, **5**A, **5**AX, **5**B, **5**BX, **5**C, **5**CX, **6**A, **6**AX, **7**A, **7**AX, **7**D, **7**DX, **7**G, **7**GX, **7**H, **11**A, **11**AX, **12**A, **12**AX, **12**B, **12**BX, **12**D, **12**DX, **12**E, **12**EX, **12**G, **12**H, **12**HX, **12**J, **12**JX, **15**A**, 15**AX, **15**C, **15**CX, **15**E, **15**EX, **15**EY, **16**A**, 16**AX, **16**AY, **16**B, **16**BX, **19**A**, 19**AX, **19**D, **19**DX, **19**E, **19**EX, **19**G, **19**GX, **22**A, **22**AX, **22**B, **22**BX, **22**C, **22**CX, **22**D, **22**DX, **22**E, **22**EX, **25**A, **25**AX, **25**B, **25**BX, **26**A**, 26**AX, **26**B, **26**BX, **29**A**, 29**B, **30**A, **30**B, **30**BX, **30**C, **31**A, **31**AX, **31**B, **31**BX, **31**C, **31**CX, **32**A, **32**AX, **32**B, **32**BX, **32**C, **32**CX, **32**D, **32**DX, **33**A, **33**AX, **33**AY, **36**A, **36**AX, **37**A, **37**AX, **37**B, **37**BX, **37**C, **37**CX, **37**D, **37**DX, **37**E, **38**A, **38**AX, **38**B, **38**BX, **38**C, **38**CX, **38**D, **38**DX, **39**A, **39**AX, **39**B, **39**BX, **39**C, **39**CX, **39**DX, **42**A, **42**AX, **42**B, **42**BX, **42**C, **42**CX, **42**D, **42**DX, **50**AL, **51**AL **P E 32**B, **32**F, **32**G, **32**H, **32**HX, **32**I, **32**IX, **32**J, **32**JX, **32**K, **32**L, **32**LX,**32**M, **32**MX, **32**N, **32**P, **32**S, **32**SX, **32**T, **32**W, **38**W, **38**WX, **38**WY, **39**M, **39**MX, **39**MY, **39**W, **39**WX, **39**WY, **40**, **40**X, **40**Y, **41**, **41**X, **41**Y, **42**W, **42**WX, **42**WY, **43**, **43**X, **43**Y, **44**M, **44**MX, **44**MY, **44**W, **44**WX, **44**WY, **45**, **45**X, **45**Y, **46**, **46**X, **46**Y, **47**M, **47**MX, **47**MY, **47**W, **47**WX, **47**WY, **48**M, **48**MX, **48**MY, **48**W, **48**WX, **48**WY ***Physical Education - Adapted (PEA) Activity Courses*:** **PEA 1**, **1**X, **1**Y, **1**Z, **2**, **2**X, **2**Y, **2**Z, **4**, **4**X, **4**Y, **4**Z, **5**, **5**X, **5**Y, **5**Z, **6**Y Other Course: _____ College: _____ CLEP Credit: _____ Qtr. Units: _____		
☐ **Check if ICS Requirement met in Area C or D**		
UNIT REQUIREMENT: If needed, select additional course(s) from Areas A - E above to meet the minimum 58 quarter units required for certification.		
Total Units for Areas A - E (Minimum 58 Quarter Units+):		

◆ - Courses may be added to CSUGE mid-academic year. These will be highlighted and identified in **bold print**, followed by the effective start term in parentheses. Visit **www.deanza.edu/transfer** and **www.assist.org** for updates during the spring 2018 term.

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

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

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

Transfer to All Campuses - UC/CSU

Intersegmental General Education Transfer Curriculum (IGETC) for 2017-2018

Effective: Fall 2017 through Summer 2018◆

DeAnza College
21250 Stevens Creek Blvd.
Cupertino, California 95014

Student Name: _____ **Campuswide ID:** _____

Completion of requirements on 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 OR with a "Pass" if the course was taken on a Pass/No Pass (P/NP) basis and the Pass is equal to a "C" grade or higher. Many colleges and universities require letter grades for major coursework, and/or have other restrictions on P/NP grades. Students are advised to consult with a counselor/academic adviser before selecting the P/NP option. A course is certifiable if, and only if, it was on the IGETC requirement list at the time the course was taken. 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 admission to the university, students must submit a request for certification to the De Anza College Admissions & Records Office. G.E. Certification Request Forms are available at the Admissions & Records Office, through the Counseling & Advising Center, and online at: **www.deanza.edu/counseling/forms.html**.

Use the columns located to the right to track units in-progress/planned and completed: **IP/P** = In-Progress/Planned **C** = Completed	Units IP/P	Units C
AREA 1: ENGLISH COMMUNICATION **10 - 15 Quarter Units** **CSU:** Select **3** courses, **1** course each from Groups 1A, 1B and 1C **UC:** Select **2** courses, **1** course each from Groups 1A and 1B		
Area 1A: English Composition (1 course, 4-5 units): **EWRT** 1A, 1AH Other Course: _____ College: _____ AP Exam Credit: _____ Qtr. Units: _____		
Area 1B: Critical Thinking-English Composition (1 course, 4-5 units): **COMM** 9 **or EWRT** 2, 2H, **or PHIL** 3 Other Course: _____ College: _____ **No AP/IB Exam Credit for Area 1B**		
Area 1C: Oral Communication (**CSU Requirement Only**) (1 course, 4-5 units): **COMM** 1, 1H, 10*, 10H* Other Course: _____ College: _____ **No AP/IB Exam Credit for Area 1C**		
AREA 2: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING **4 - 5 Quarter Units** Select **1** course below.		
MATH 1A*, 1AH*, 1B, 1BH, 1C, 1CH, 1D, 1DH, 2A, 2B, 10*, 10H*, 11, 12*, 17* (through summer 2019), 22, 23*, 43*, 44, **PSYC** 15*, **SOC** 15* Other Course: _____ College: _____ AP/IB Exam Credit: _____ Qtr. Units: _____		
AREA 3: ARTS AND HUMANITIES **12 - 15 Quarter Units** At least 3 courses below, including **1** course from the **Arts** and **1** from **Humanities**.		
3A – Arts: ARTS 1A, 1B, 2A, 2B, 2C, 2D, 2F, 2G, 2H, 2J, 2K, 2L, 3TC#, 3TD, 3TE, **DANC** 38A, **E S** 3#, **F/TV** 1, 1H, 2A#*, 2AW#*, 2B#*, 2BW#*, 2C#*, 2CW#*, **HUMI** 1#, 1H#, 15, **ICS** 5, 33, 45, **INTL** 10, 21, 22, 23, 24, **MUSI** 1A, 1B, 1C, 1D, 1E, **PHTG** 7, 21, **THEA** 1, **WMST** 3C# Other Course: _____ College: _____ AP/IB Exam Credit: _____ Qtr. Units: _____		
3B – Humanities: ELIT 8, 10, 11, 12, 17, 19, 21, 22, 24, 39, 40, 41, 44, 46A, 46B, 46C, 47A, 47B, 48A, 48B, 48C, **EWRT** 1C, **F/TV** 2A#*, 2AW#*, 2B#*, 2BW#*, 2C#*, 2CW#*, **FREN** 3, 4, 5, 6, **GERM** 3, 4, 5, 6, **HNDI** 3, **HIST** 6A#, 6AH#, 6B#, 6BH#, 6C#, 6CH#, **HUMI** 1#, 1H#, 2, 5, 6, 7, 9, 9H, 10, 13, 16, 18, 18H, 20, **ICS** 11#, 12, 24, 35, 44, 46, **INTL** 11, 13, **ITAL** 3, **JAPN** 3, 4, 5, 6, **KORE** 3, 3H, **LING** 1, **MAND** 3, 4, 5, 6, **PERS** 3, **PHIL** 1, 2, 8, 14A, 14B, 14C, 20A, 20B, 20C, 24, 30, 49, **RUSS** 3, **SIGN** 3, **SPAN** 3, 4, 5, 6, **VIET** 3, 4, 5, 6, **WMST** 21, 49 Other Course: _____ College: _____ AP/IB Exam Credit: _____ Qtr. Units: _____ (3A or 3B) Other Course: _____ College: _____ AP/IB Exam Credit: _____ Qtr. 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. Visit www.deanza.edu/transfer and www.assist.org for updates during the spring 2018 term.

\# - Courses listed in more than one area can count in only one area.

★ - 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 the laboratory requirement in Area 5.

Use the columns located to the right to track units in-progress/planned and completed: **IP/P** = In-Progress/Planned **C** = Completed	Units IP/P	Units C

AREA 4: SOCIAL AND BEHAVIORAL SCIENCES **12 - 15 Quarter Units**
At least **3** courses from at least **2 different disciplines**.

ADMJ 29, **ANTH** 2, 2H, 3, 4, 5, 6, **ARTS** 3TC#, **C D** 10G, 10H, 12, **COMM** 7, 7H, **ECON** 1, 1H, 2, 2H, 3, 4,5, **E S** 1, 3#, **F/TV** 10, **GEO** 4, 5, 10, **HIST** 2, 3A, 3AH, 3B, 3BH, 3C, 3CH, 6A#, 6AH#, 6B#, 6BH#, 6C#, 6CH#, 7A, 7B, 9, 9H, 10, 10H, 16A, 16B, 17A, 17AH, 17B, 17BH, 17C, 17CH, 18A, 18B, 19A, 19B, 28, **HUMA** 10, **ICS** 4, 7, 7H, 9, 10, 11#, 16A, 16B, 17, 17H, 18A, 18B, 19, 20, 21, 22, 25, 26, 27, 27H, 28, 29, 30, 31, 32, 36, 37, 38A, 38B, 41, 42, 43, 47, **INTL** 5, 8, 19A, 19B, 33, **JOUR** 2, **POLI** 1, 2, 3, 5, 15, 16, 17, 17H, **PSYC** 1, 3, 4, 5, 6, 8, 9, 10G, 10H, 12, 14, 24, **SOC** 1, 5, 14, 20, 28, 29, 35, **WMST** 1, 3C#, 8, 9, 9H, 12, 22, 24, 25, 26, 27, 28, 29, 31

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

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

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

CSU/UC Graduation Requirement - NOT PART OF IGETC

(CSU) The **U.S. History, Constitution, and American Ideals (AI)** is a CSU graduation requirement, and it is strongly recommended that it be completed before transfer. This requirement may be fulfilled by completing **2 courses**: **POLI** 1 and **one** of the following U.S. History courses (**HIST** 17A, 17AH or 17B, 17BH or 17C, 17CH). These courses may be used as part of the 12-15 quarter units required in **Area 4**, however, each CSU campus has the discretion whether to allow courses completed in **Area 4** to also satisfy the **AI** graduation requirement.

(UC) The **American History & Institutions** (**AH&I**) is a UC graduation requirement that may be met through examination or enrollment in specific courses. Each campus decides how its students may meet the requirement. Most transfer students fulfill this requirement through satisfactory completion of a one-year course in U.S. history or a half-year course in U.S. history and a half-year course in American government in high school. (UC Santa Barbara requires students to complete a college-level course). One, or a combination, of the following courses may fulfill this requirement: POLI 1, (HIST 17A, 17AH), (HIST 17B, 17BH), (HIST 17C, 17CH). **Please check UC campus catalogs for more information, including other course options that may be available.**

AREA 5: PHYSICAL AND BIOLOGICAL SCIENCES **9 - 12 Quarter Units**
At least **2** courses, including **1 Physical Science** and **1 Biological Science**; at least **1** must include a laboratory.
Courses with a laboratory are underlined.

5A – Physical Sciences: **ASTR** 4, 4/15L, 10, 10/15L, **CHEM** 1A, 1B, 1C, 10*, 25*, 30A*, 30B, **GEO** 1, **GEOL** 10, 20, **MET** 10, 10/ 10L, 10/20L, **PHYS** 2A*, 4A*, 10*

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

5B – Biological Sciences: **ANTH** 1, 1H, 1/1L, 1H/1L, 7, **BIOL** 6A, 6AH, 6B, 6C, 6CH, 10*, 10H*, 11*, 13, 15, 26, 40C, **ESCI** 1, 1/1L, 19*, 20*

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

5C – Science Laboratory (Underlined courses in Areas 5A and 5B include a lab.) **Check if lab requirement met** ☐

AREA 6: 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, official transcripts must be on file at De Anza - Admissions & Records Office. For more information on this requirement go to: **http://www.deanza.edu/transfer/uc_main/trans_reqs_uc/ge_reqs_uc.html**

Complete one of the following with a grade of "C" or better:
FREN 2, 3, 4, 5, 6, **GERM** 2, 3, 4, 5, 6, **HNDI** 2, 3, **ITAL** 2, 3, **JAPN** 2, 3, 4, 5, 6, **KORE** 2, 2H, 3, 3H, **MAND** 2, 3, 4, 5, 6, **PERS** 2, 3, **RUSS** 2, 3, **SIGN** 2, 3, **SPAN** 2, 3, 4, 5, 6, **VIET** 2, 3, 4, 5, 6

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

TOTAL UNITS FOR AREAS 1 - 6 (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. Visit www.deanza.edu/transfer and www.assist.org for updates during the spring 2018 term.
\# - Courses listed in more than one area can count in only one area.
★ - 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 the laboratory requirement in Area 5.

CERTIFICATE AND A.A./A.S. DEGREE PROGRAMS SECTION GUIDE

CERTIFICATE AND A.A./A.S. DEGREE PROGRAMS

Individual department curriculum sheets for certificate and degree programs are available in the Counseling and Advising Center and at **www.deanza.edu/counseling/degreecert.html**. Division offices often have the information available as well.

Students transferring to another college should complete as many of that college's requirements 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, A.A.-T./A.S.-T.) as specified below.

Skills Certificate

Skills Certificates **are issued by the individual departments and are not notated on official college transcripts**. Contact the department directly for assistance and to apply.

Completion of all required courses with a "C" grade or higher, or with a "Pass" if the course was taken on a Pass/No Pass (P/NP) basis and the "Pass" is equal to a "C" grade or higher.

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 Requirements

Completion of all major courses with a "C" grade or higher, or with a "Pass" if the course was taken on a Pass/No Pass (P/NP) basis and the "Pass" is equal to a "C" grade or higher.

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

Certificate of Achievement-Advanced Requirements

1. Completion of all major courses with a "C" grade or higher, or with a "Pass" if the course was taken on a Pass/No Pass (P/NP) basis and the "Pass" is equal to a "C" grade or higher.
2. Demonstrated proficiency in English and mathematics as evidenced by eligibility for EWRT 1A or EWRT 1AH or ESL 5 and eligibility for MATH 114.

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

Associate Degree Requirements (A.A./A.S.)

1. Completion of all General Education (GE) requirements (32-43 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 courses with a "C" grade or higher, or with a "Pass" if the course was taken on a Pass/No Pass (P/NP) basis and the "Pass" is equal to a "C" grade or higher. 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.

Associate Degree for Transfer Requirements (A.A.-T./A.S.-T.)

1. Completion of all major courses with a "C" grade or higher, or with a "Pass" if the course was taken on a Pass/No Pass (P/NP) basis and the "Pass" is equal to a "C" grade or higher (Title 5 §55063). Major courses may be used to satisfy GE requirements.

   Note: Many colleges and universities require letter grades for major coursework, and/or have other P/NP transfer-limitation policies, so transfer students are advised to consult with a counselor/academic adviser before selecting the P/NP option.
2. Completion of either the California State University General Education Breadth pattern (CSU-GE) or the Intersegmental General Education Transfer Curriculum (IGETC) pattern in full; students transferring to CSU using IGETC must complete Area 1C.
3. Completion of a minimum of 90 CSU-transferable quarter units with a minimum overall GPA of 2.0 in all CSU-transferable units.

Note: While a minimum 2.0 GPA is required for admission to CSU, many majors/campuses require a higher GPA. Please consult with a counselor/academic adviser.

Note: A minimum of 18 degree-applicable quarter units must be earned at De Anza College.

ACCOUNTING

Accounting

Certificate of Achievement

In this program Business students gain accounting knowledge needed for an entry-level accounting position.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate knowledge of double-entry accounting within financial and cost accounting systems for various business organizations.
- prepare financial statements and report and analyze these statements to evaluate the financial structure of a firm and describe fundamental business concepts, while identifying ethical issues in accounting.

1. Meet the requirements for this certificate level.
2. Complete the following.

ACCT 1A	Financial Accounting I	5
or ACCT 1AH	Financial Accounting I - HONORS	5
ACCT 1B	Financial Accounting II	5
or ACCT 1BH	Financial Accounting II - HONORS	5
ACCT 1C	Managerial Accounting	5
or ACCT 1CH	Managerial Accounting - HONORS	5
ACCT 88	Excel Spreadsheets for Accounting	2
Complete a minimum of nine (9) units:		**9**
ACCT 51A	Intermediate Accounting (5)	
ACCT 51B	Intermediate Accounting (5)	
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 Tax Accounting I (4)	
ACCT 68	Advanced Tax Accounting II (4)	
ACCT 73	Fraud Detection and Deterrence (5)	
ACCT 74	Accounting Ethics (5)	
ACCT 75	Accounting for Government and Nonprofit Entities (5)	
ACCT 86	Computer Accounting Systems (5)	
ACCT 87AH	Computerized Accounting Programs I (Peachtree - Windows) (2)	
ACCT 87AI	Computerized Accounting Programs I (Quickbooks) (2)	
ACCT 87AJ	Computerized Accounting Programs I (Microsoft Dynamics GP) (2)	
ACCT 105	Basic Financial Accounting Procedures (1)	
BUS 18	Business Law I (5)	
	Total Units Required	**26**

Accounting

Certificate of Achievement-Advanced

In this program Business students gain the skills needed for a professional job in accounting or related positions such as analyst or staff accountant.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate knowledge of double-entry accounting within financial and cost accounting systems for various business organizations.
- prepare financial statements and reports and analyze these statements to evaluate the financial structure of a firm and describe fundamental business concepts, while identifying ethical issues in accounting.
- identify and assess the theory and reporting differences between International Reporting Standards and U.S. Generally Accepted Accounting Principles.
- evaluate events which require research in the professional literature and formulate an organized, concise approach to a solution.

1. Meet the requirements for this certificate level.
2. Complete the following.

ACCT 1A	Financial Accounting I	5
or ACCT 1AH	Financial Accounting I - HONORS	5
ACCT 1B	Financial Accounting II	5
or ACCT 1BH	Financial Accounting II - HONORS	5
ACCT 1C	Managerial Accounting	5
or ACCT 1CH	Managerial Accounting - HONORS	5
ACCT 88	Excel Spreadsheets for Accounting	2
Complete a minimum of 28 units:		**28**
ACCT 51A	Intermediate Accounting (5)	
ACCT 51B	Intermediate Accounting (5)	
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 Tax Accounting I (4)	
ACCT 68	Advanced Tax Accounting II (4)	
ACCT 73	Fraud Detection and Deterrence (5)	
ACCT 74	Accounting Ethics (5)	
ACCT 75	Accounting for Government and Nonprofit Entities (5)	
ACCT 86	Computer Accounting Systems (5)	
ACCT 87AH	Computerized Accounting Programs I (Peachtree - Windows) (2)	
ACCT 87AI	Computerized Accounting Programs I (Quickbooks) (2)	
ACCT 87AJ	Computerized Accounting Programs I (Microsoft Dynamics GP) (2)	
ACCT 105	Basic Financial Accounting Procedures (1)	
BUS 10*	Introduction to Business (5)	
BUS 18*	Business Law I (5)	
REST 50*	Real Estate Principles (4)	
	Total Units Required	**45**

**A maximum of five (5) units from BUS and REST courses will apply.*

Accounting

A.A. Degree

This program prepares Business students for transfer to a four-year institution as Accounting majors. In it, students gain the skills needed for a professional job in accounting or related field such as analyst or staff accountant.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate knowledge of double-entry accounting within financial and cost accounting systems for various business organizations.
- prepare financial statements and reports and analyze these statements to evaluate the financial structure of a firm and describe fundamental business concepts, while identifying ethical issues in accounting.
- identify and assess the theory and reporting differences between International Reporting Standards and U.S. Generally Accepted Accounting Principles.
- evaluate events which require research in the professional literature and formulate an organized, concise approach to a solution.

Major	*Complete the Cert. of Achievement-Advanced requirements*	*45*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

ADMINISTRATION OF JUSTICE

Associate in Science in Administration of Justice for Transfer

A.S.-T. Degree

The Administration of Justice major consists of courses appropriate for an Associate in Science in Administration of Justice for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline, and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). Potential careers students may enter upon completion of this program include: law enforcement, probation, parole or security. The Associate in Science in Administration of Justice for Transfer is intended for students who plan to complete a bachelor's degree in Administration of Justice at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 (semester) units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Student Learning Outcomes - upon completion, students will be able to:

- identify the responsibilities of each component of the criminal justice system.
- analyze the issues and theories of ethical standards and unethical conduct that are unique to the criminal justice field.
- construct a professional report of a crime utilizing report criteria.

1. Meet the A.A.-T./A.S.-T. degree requirements for transfer.
2. Complete the following.

ADMJ 1	Introduction to Administration of Justice *also listed as POLI 10*	4
ADMJ 3	Concepts of Criminal Law (CP 2) *also listed as PARA 3 and POLI 13*	4
Complete three (3) courses:		**12**
ADMJ 6	Crime, Correction and Society (4)	
ADMJ 54	Youth and the Law (4) *also listed as PARA 54 and SOC 54*	
ADMJ 61	Criminal Investigation (4)	
ADMJ 75	Principles and Procedures of the Justice System (4) *also listed as PARA 75 and POLI 75*	
ADMJ 84	Forensic Science (4)	
ADMJ 90A	Legal Aspects of Evidence (CP 4) (4) *also listed as PARA 90A*	
Complete two (2) courses:		**8-10**
PARA 95	Overview of American Law (4) *also listed as ADMJ 95 and POLI 95*	
POLI 1	American Government and Politics (5)	
PSYC 1	General Psychology (4)	
SOC 1	Introduction to Sociology (4)	
SOC 15	Basic Statistics and Research Methods in Social and Behavioral Sciences (4) *also listed as PSYC 15*	
or MATH 10	Elementary Statistics and Probability (5)	
or MATH 10H	Elementary Statistics and Probability - HONORS (5)	
Major	*Administration of Justice for Transfer*	*28-30*
Transfer GE	*CSU GE or IGETC for CSU pattern (47-61 units)*	
Electives	*CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90*	
	Total Units Required 90	

Corrections/Probation

A.A. Degree

The A.A. degree in Corrections/Probation provides the foundational education required for an individual's career entry into the criminal justice field, specifically correctional operations and probation/parole case investigations. The courses range from concepts of criminal law, evidence, investigation and reporting to criminology, aspects of social change, and corrections investigations.

Student Learning Outcomes - upon completion, students will be able to:

- identify and discuss the legal and sociological approaches to correctional theories and practices.
- analyze the current correctional system and alternative sentencing solutions.

- analyze and evaluate the current theories and concepts that attribute social deviations to juvenile delinquency.

1. Meet the A.A./A.S. degree requirements.
2. Complete the following.

ADMJ 1	Introduction to Administration of Justice *also listed as POLI 10*	4
ADMJ 6	Crime, Correction and Society	4
ADMJ 54	Youth and the Law *also listed as PARA 54 and SOC 54*	4
ADMJ 56	Practical Writing for Administration of Justice	4
ADMJ 73	Crime and Criminology *also listed as SOC 73*	4
ADMJ 74A	Interviewing, Interrogation and Crisis Intervention *also listed as PARA 74A and PSYC 74A*	4
ADMJ 75	Principles and Procedures of the Justice System *also listed as PARA 75 and POLI 75*	4
ADMJ 78	Correctional Investigation	4

Complete five (5) courses:		**14-20**
ADMJ 3	Concepts of Criminal Law (CP 2) (4) *also listed as PARA 3 and POLI 13*	
ADMJ 11	Federal Courts and Constitutional Law (4) *also listed as PARA 11 and POLI 11*	
ADMJ 25	Law and Social Change (4) *also listed as PARA 25*	
ADMJ 29	Cultural Pluralism and American Law and Justice (4) *also listed as ICS 29*	
ADMJ 51	Women in Crime (4) *also listed as SOC 51*	
ADMJ 55	Alcohol, Narcotics and Drug Abuse (4)	
ADMJ 62	Sexual Assault, Police and Community Response (4) *also listed as PSYC 63*	
ADMJ 64 series	ADMJ 64, 64X, 64Y, 64Z Administration of Justice Internship (1-4)	
ADMJ 69	Administration of Justice Field Trips (1)	
ADMJ 84	Forensic Science (4)	
ADMJ 90A	Legal Aspects of Evidence (CP 4) (4) *also listed as PARA 90A*	
PARA 95	Overview of American Law (4) *also listed as ADMJ 95 and POLI 95*	
Major	*Corrections/Probation*	*46-52*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

Recommended
ADMJ 5, 53
HIST 17A, 17AH, 17B, 17BH
PSYC 1, 4
SOC 1
Spanish (any level)

Law Enforcement

A.A. Degree

The A.A. degree in Law Enforcement provides the foundational education required for an individual's career pathway into the criminal justice field with an emphasis on the administration of justice. The courses range from the concepts of criminal law, evidence, investigation and reporting to community relations and criminology.

Student Learning Outcomes - upon completion, students will be able to:
- identify the responsibilities of each component of the criminal justice system.
- analyze the issues and theories of ethical standards and unethical conduct that are unique to the criminal justice field.
- construct a professional report of a crime utilizing report criteria.

1. Meet the A.A./A.S. degree requirements.
2. Complete the following.

ADMJ 1	Introduction to Administration of Justice *also listed as POLI 10*	4
ADMJ 3	Concepts of Criminal Law (CP 2) *also listed as PARA 3 and POLI 13*	4
ADMJ 5	Community Relations	4
ADMJ 56	Practical Writing for Administration of Justice	4
ADMJ 61	Criminal Investigation	4
ADMJ 75	Principles and Procedures of the Justice System *also listed as PARA 75 and POLI 75*	4
ADMJ 90A	Legal Aspects of Evidence (CP 4) *also listed as PARA 90A*	4

Complete five (5) courses:		**14-20**
ADMJ 6	Crime, Correction and Society (4)	
ADMJ 11	Federal Courts and Constitutional Law (4) *also listed as PARA 11 and POLI 11*	
ADMJ 25	Law and Social Change (4) *also listed as PARA 25*	
ADMJ 29	Cultural Pluralism and American Law and Justice (4) *also listed as ICS 29*	
ADMJ 51	Women in Crime (4) *also listed as SOC 51*	
ADMJ 53	Criminal Law II (4)	
ADMJ 54	Youth and the Law (4) *also listed as PARA 54 and SOC 54*	
ADMJ 55	Alcohol, Narcotics and Drug Abuse (4)	
ADMJ 62	Sexual Assault, Police and Community Response (4) *also listed as PSYC 63*	
ADMJ 64 series	ADMJ 64, 64X, 64Y, 64Z Administration of Justice Internship (1-4)	
ADMJ 69	Administration of Justice Field Trips (1)	
ADMJ 73	Crime and Criminology (4) *also listed as SOC 73*	
ADMJ 74A	Interviewing, Interrogation and Crisis Intervention (4) *also listed as PARA 74A and PSYC 74A*	

ADMJ 84	Forensic Science (4)	
PARA 95	Overview of American Law (4) *also listed as ADMJ 95 and POLI 95*	
Major	*Law Enforcement*	*42-48*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

Private Security

Certificate of Achievement-Advanced

The Certificate of Achievement-Advanced in Private Security provides a compressed, minimum foundational education required for an individual's career pathway into the private security field. The emphasis is on courses needed to apply for entry-level positions. The courses offer exposure to patrol and justice procedures.

Student Learning Outcomes - upon completion, students will be able to:

- identify the responsibilities of each component of the criminal justice system.
- identify and analyze ethical standards and unethical conduct that are unique to the criminal justice profession.
- construct a professional report of a crime utilizing report criteria.

1. Meet the requirements for this certificate level.
2. Complete the following.

ADMJ 1	Introduction to Administration of Justice *also listed as POLI 10*	4
ADMJ 56	Practical Writing for Administration of Justice	4
ADMJ 75	Principles and Procedures of the Justice System *also listed as PARA 75 and POLI 75*	4

Complete a minimum of 25 units: 25

ADMJ 3	Concepts of Criminal Law (CP 2) (4) *also listed as PARA 3 and POLI 13*
ADMJ 6	Crime, Correction and Society (4)
ADMJ 11	Federal Courts and Constitutional Law (4) *also listed as PARA 11 and POLI 11*
ADMJ 29	Cultural Pluralism and American Law and Justice (4) *also listed as ICS 29*
ADMJ 53	Criminal Law II (4)
ADMJ 54	Youth and the Law (4) *also listed as PARA 54 and SOC 54*
ADMJ 55	Alcohol, Narcotics and Drug Abuse (4)
ADMJ 61	Criminal Investigation (4)
ADMJ 64 series	ADMJ 64, 64X, 64Y, 64Z Administration of Justice Internship (1-4)
ADMJ 84	Forensic Science (4)
ADMJ 90A	Legal Aspects of Evidence (CP 4) (4) *also listed as PARA 90A*
PARA 95	Overview of American Law (4) *also listed as ADMJ 95 and POLI 95*
	Total Units Required 37

Private Security

A.A. Degree

The A.A. degree in Private Security provides the foundational education required for an individual's career pathway into the private security field. The courses range from the concepts of criminal law, evidence, investigations and reporting to patrol procedures and criminology.

Student Learning Outcomes - upon completion, students will be able to:

- identify the components of the criminal justice system and describe how each is fundamental to criminology procedures.
- identify the elements of a crime based on a factual situation.
- construct a professional report of a crime utilizing report criteria.

1. Meet the A.A./A.S. degree requirements.
2. Complete the following.

ADMJ 1	Introduction to Administration of Justice *also listed as POLI 10*	4
ADMJ 3	Concepts of Criminal Law (CP 2) *also listed as PARA 3 and POLI 13*	4
ADMJ 56	Practical Writing for Administration of Justice	4
ADMJ 75	Principles and Procedures of the Justice System *also listed as PARA 75 and POLI 75*	4

Complete a minimum of 22 units: 22

ADMJ 6	Crime, Correction and Society (4)
ADMJ 11	Federal Courts and Constitutional Law (4) *also listed as PARA 11 and POLI 11*
ADMJ 29	Cultural Pluralism and American Law and Justice (4) *also listed as ICS 29*
ADMJ 53	Criminal Law II (4)
ADMJ 54	Youth and the Law (4) *also listed as PARA 54 and SOC 54*
ADMJ 55	Alcohol, Narcotics and Drug Abuse (4)
ADMJ 61	Criminal Investigation (4)
ADMJ 64 series	ADMJ 64X, 64Y, 64Z Administration of Justice Internship (2-4)
ADMJ 69	Administration of Justice Field Trips (1)
ADMJ 73	Crime and Criminology (4) *also listed as SOC 73*
ADMJ 74A	Interviewing, Interrogation and Crisis Intervention (4) *also listed as PARA 74A and PSYC 74A*
ADMJ 84	Forensic Science (4)
ADMJ 90A	Legal Aspects of Evidence (CP 4) (4) *also listed as PARA 90A*
PARA 95	Overview of American Law (4) *also listed as ADMJ 95 and POLI 95*
Major	*Private Security* *38*
GE	*General Education (32-43 units)*
Electives	*Elective courses required when major units plus GE units total is less than 90*
	Total Units Required 90

ANTHROPOLOGY

Associate in Arts in Anthropology for Transfer

A.A.-T. Degree

The Anthropology major consists of courses appropriate for an Associate in Arts in Anthropology for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline, and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). The Associate in Arts in Anthropology for Transfer is intended for students who plan to complete a bachelor's degree in Anthropology at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 (semester) units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Student Learning Outcomes - upon completion, students will be able to:

- apply a scientific, evolutionary and a holistic approach to understanding human biological variation and cultural variation
- use cultural relativism and recognize the validity of each culture as an adaptation to its physical, biotic and social environment. They will also be able to identify underlying similarities between cultures.
- equipped to apply anthropological thinking and skills to address issues facing humanity both locally and globally. They will be prepared for both civic and community engagement.

1. Meet the A.A.-T./A.S.-T. degree requirements for transfer.
2. Complete the following.

ANTH 1	Physical Anthropology	4
or ANTH 1H	Physical Anthropology - HONORS	4
ANTH 2	Cultural Anthropology	4
or ANTH 2H	Cultural Anthropology - HONORS	4
ANTH 3	Introduction to Archaeology	4

Complete one (1) course: 4

ANTH 4	World Prehistory (4)
ANTH 6	Linguistic Anthropology (4)

Complete one (1) course below or from above (not already taken): 4-5

GEOL 10	Introductory Geology (5)
SOC 14	The Process of Social Research (4)

Complete three (3) courses below or from above (not already taken): 9-13

ANTH 1L	Physical Anthropology Laboratory (1)
ANTH 5	Magic, Science and Religion (4)
ANTH 7	Introduction to Forensic Anthropology (4)
ANTH 68	Anthropology and Museums (4)

Major	*Anthropology for Transfer*	*29-33*
Transfer GE	*CSU GE or IGETC for CSU pattern (47-61 units)*	
Electives	*CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90*	
	Total Units Required 90	

Recommended
ANTH 1L

ART

Art History

Certificate of Achievement-Advanced

A.A. Degree

Completion of the Art History Certificate of Achievement-Advanced and A.A. degree provides students with a broad overview of the discipline of Art History from a global perspective. The program emphasizes visual literacy and research skills necessary for critical inquiry and analysis of art works, as well as knowledge of the technical processes of studio art relevant to the field of Art History.

Student Learning Outcomes - upon completion, students will be able to:

- analyze artworks on the basis of social, cultural, political, economic and/or ethnic contexts and issues relevant to women's and gender studies.
- demonstrate critical thinking and visual literacy skills through oral and written communication, including those used to analyze, evaluate and synthesize primary and secondary sources.
- analyze artistic traditions through a cross-cultural perspective and in a global context.
- apply technical processes of studio art in written assignments in the field of Art History.

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level.
2. Complete the following.

ARTS 2F	History of Art: Multicultural Arts in the United States *also listed as ICS 5*	4
ARTS 3TC	Women and Art *also listed as WMST 3C*	4

Complete three (3) courses: 12

ARTS 1B	Architecture Past and Present (4)
ARTS 2G	History of Art: Arts of Asia (4) *also listed as INTL 10*
ARTS 2H	History of Art: Native Arts of Mesoamerica and the Andes (4) *also listed as INTL 21*
ARTS 2J	History of Art: Arts of Africa, Oceania and Native North America (4) *also listed as INTL 22*
ARTS 2K	History of Art: Visual Arts of Islam (4) *also listed as INTL 23*
ARTS 2L	History of Art: Visual Arts of Africa (4) *also listed as INTL 24*

Complete three (3) courses:		**12**
ARTS 2A	History of Art: Europe from Prehistory Through Early Christianity (4)	
ARTS 2B	History of Art: Europe During the Middle Ages and the 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 from Post-Impressionism to the Present (4)	
ARTS 3TD	American Art: Public and Private (4)	
ARTS 3TE	Today's Art Scene (4)	
Complete one (1) course:		**4**
ARTS 4A	Beginning Drawing (4)	
ARTS 15A	Acrylic Painting I (4)	
ARTS 16A	Oil Painting I (4)	
Complete 6-8 units:		**6-8**
ARTS 4C	Life Drawing (4)	
ARTS 8	Two-Dimensional Design (4)	
ARTS 10A	Three-Dimensional Design (4)	
ARTS 12	Design and Color (4)	
ARTS 18B	Ceramics (Beginning Wheel Throwing) (4)	
ARTS 37A	Sculpture (4)	
ARTS 53	Introduction to Visual Technology (4)	
ARTS 70	Viewing Bay Area Art Museums and Galleries (1)	
ARTS 71	Gallery and Exhibition Design (4)	
ARTS 72	Internship in Art (1)	
	Total Units Required 42-44	

A.A. Degree

Major	*Complete the Cert. of Achievement-Advanced requirements*	*42-44*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

Ceramics

A.A. Degree

This A.A. degree provides foundation-level art and fundamental ceramics instruction. In the ceramics courses, students gain the experience necessary for entry-level positions and learn intermediate-level skills needed for ceramics study at the university.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate competency in hand and wheel forming techniques.
- develop expertise in clay selection for different types of expression and surface embellishment.
- demonstrate competency in advanced technical skills associated with firing techniques.
- demonstrate loading and firing kilns for different temperature aesthetics and function.

1. Meet the A.A./A.S. degree requirements.
2. Complete the following.

ARTS 4A	Beginning Drawing	4
ARTS 8	Two-Dimensional Design	4
ARTS 10A	Three-Dimensional Design	4
ARTS 18A	Ceramics	4
ARTS 18B	Ceramics (Beginning Wheel Throwing)	4
ARTS 18C	Ceramics (Intermediate Wheel Throwing)	4
ARTS 18D	Ceramics Hand Building	4
ARTS 19J	Ceramics Techniques	4
ARTS 19K	Ceramics Decoration	4
ARTS 19M	Ceramics Low Fire	4
ARTS 20	Ceramics Individual Laboratory	2
Major	*Ceramics*	*42*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

Museum Studies

Skills Certificate

Skills Certificates are issued by the individual departments and are not notated on official college transcripts. Please contact the department directly for assistance and to apply for Skills Certificates.

This Skills Certificate provides a foundation-level art and museum studies education. The Museum Studies courses emphasize the skills and knowledge necessary for entry-level employment in the museum/gallery field. A required internship provides practical experience, along with courses that include all aspects of design, installation and viewing of art exhibits in a museum/gallery environment.

Student Learning Outcomes - upon completion, students will be able to:

- compare and contrast gallery/museum art exhibits in terms of history, culture and aesthetics.
- demonstrate a working knowledge of gallery design, processes and procedures.
- apply internship experience skills to art gallery/museum work environments.

1. Meet the requirements for this certificate level.
2. Complete the following.

ARTS 1A	Introduction to the Visual Arts	4
ARTS 4A	Beginning Drawing	4
ARTS 8	Two-Dimensional Design	4
ARTS 10A	Three-Dimensional Design	4
ARTS 70	Viewing Bay Area Art Museums and Galleries	1
ARTS 71	Gallery and Exhibition Design	4
ARTS 72	Internship in Art	1
	Total Units Required 22	

Painting

A.A. Degree

This A.A. degree provides a comprehensive foundation in the areas of design, color theory, multiple painting processes, and professional software/hardware used by artists and designers. Students gain the skills and experience necessary to demonstrate a complete understanding of aesthetics, techniques and philosophy in the creative process.

Student Learning Outcomes - upon completion, students will be able to:

- critically analyze and assess diverse historical and contemporary works of art, architecture, and design.
- create art that engages and builds on historical and contemporary practices, theories, and materials.
- translate concepts and visual experience into images and tactile forms.
- present finished artwork for peer, professional or academic review.
- evaluate and critique artwork and receive criticism from others.
- express artistic concepts and intents in written and oral formats.

1. Meet the A.A./A.S. degree requirements.
2. Complete the following.

ARTS 4A	Beginning Drawing	4
ARTS 4B	Intermediate Drawing	4
ARTS 4C	Life Drawing	4
ARTS 8	Two-Dimensional Design	4
ARTS 12	Design and Color	4
Complete one (1) course:		**4**
ARTS 1A	Introduction to the Visual Arts (4)	
ARTS 2D	History of Art: Europe and the United States from Post-Impressionism to the Present (4)	
ARTS 3TE	Today's Art Scene (4)	
Complete one (1) course:		**4**
ARTS 4D	Representational Drawing (4)	
ARTS 10A	Three-Dimensional Design (4)	
Complete two (2) sequences:		**24**
ARTS 14A	Watercolor Painting I (4)	
ARTS 14B	Watercolor Painting II (4)	
ARTS 14C	Watercolor Painting III (4)	
or		
ARTS 15A	Acrylic Painting I (4)	
ARTS 15B	Acrylic Painting II (4)	
ARTS 15C	Acrylic Painting III (4)	
or		
ARTS 16A	Oil Painting I (4)	
ARTS 16B	Oil Painting II (4)	
ARTS 16C	Oil Painting III (4)	
Major	*Painting*	*52*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

Sculpture

A.A. Degree

This A.A. degree offers a foundation in lower division courses enabling students to pursue a B.A. or B.F.A. in sculpture or design at a four-year institution. The degree prepares students to transition successfully into a university environment. Their acquired knowledge may be transferred into areas such as teaching, studio art production, product design, museum work, architectural design and model making.

Student Learning Outcomes - upon completion, students will be able to:

- explore and develop individual ideas by drawing and creating original works of art while incorporating advanced sculpture techniques.
- create a body of work or develop a portfolio which is reflective of their coursework in preparation for further studies.
- demonstrate advanced critical thinking and problem solving skills during each phase of the sculpture making process.
- use specific tools expertly in working with a variety of sculpture materials and techniques.

1. Meet the A.A./A.S. degree requirements.
2. Complete the following.

ARTS 4A	Beginning Drawing	4
ARTS 4B	Intermediate Drawing	4
ARTS 8	Two-Dimensional Design	4
ARTS 10A	Three-Dimensional Design	4
ARTS 10B	Intermediate Three-Dimensional Design	4
ARTS 37A	Sculpture	4
ARTS 37B	Intermediate Sculpture	4
ARTS 37C	Advanced Sculpture	4
ARTS 58A	Furniture Design	4
ARTS 58B	Intermediate Furniture Design	4
ARTS 58C	Advanced Furniture Design	4
Complete one (1) course:		**4**
ARTS 2D	History of Art: Europe and the United States from Post-Impressionism to the Present (4)	
ARTS 3TE	Today's Art Scene (4)	
Major	*Sculpture*	*48*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

AUTOMOTIVE TECHNICIAN

An evening, in-service program for practicing apprentices and technicians, auto enthusiasts, and students seeking to enter the automotive technician workforce.

Automotive Machining and Engine Repair Technology

Certificate of Achievement

This Certificate of Achievement prepares students for an entry-level engine diagnostics technician position in the automotive repair industry.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate an understanding of four-stroke engine theory, basic safe machining practices, and engine assembly.

1. Meet the requirements for this certificate level.
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
A.S. Degree

This Certificate of Achievement-Advanced and A.S. degree prepares students with advanced skills for an entry-level position in automotive engine diagnostics.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate an understanding of four-stroke engine theory, basic safe machining practices, estimates and repair orders, and engine assembly.
- identify the basic electrical circuits and diagnose automotive electrical systems.
- apply the basic principles of physics as they work in the automotive industry.

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level.
2. Complete the following.

AUTO 53A	Automotive Mechanisms	4
AUTO 60	Automotive Electrical Systems	9
AUTO 60A	Electrical Schematic Diagnosis	4.5
AUTO 60B	Automotive Electronics	4.5
AUTO 60C	Automotive Ignition, Fuel and Emission Systems	9
AUTO 64	Automotive Machining and Engine Repair	9
AUTO 64HP	High Performance Engine Preparation	9
	Total Units Required	**49**

A.S. Degree

Major	*Complete the Cert. of Achievement-Advanced requirements*	*49*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required	**90**

Engine Performance

Basic Engine Performance Technology

Certificate of Achievement

This Certificate of Achievement prepares a student to be successful as an entry-level technician in vehicle electrical systems repairs.

Student Learning Outcomes - upon completion, students will be able to:

- identify the basic electrical circuits and diagnose automotive electrical systems.
- apply the basic principles of physics as they work in the automotive industry.

1. Meet the requirements for this certificate level.
2. Complete the following.

AUTO 53A	Automotive Mechanisms	4
AUTO 60	Automotive Electrical Systems	9
AUTO 60A	Electrical Schematic Diagnosis	4.5
AUTO 60B	Automotive Electronics	4.5
	Total Units Required	**22**

Intermediate Engine Performance Technology

Certificate of Achievement

This Certificate of Achievement prepares a student to be successful as an entry-level technician in vehicle ignition, fuel, and ignition systems.

Student Learning Outcomes - upon completion, students will be able to:

- interpret and analyze automotive ignition, fuel, and ignition systems.

1. Meet the requirements for this certificate level.
2. Complete the following.

AUTO 60C	Automotive Ignition, Fuel and Emission Systems	9
AUTO 60D	Ignition Analysis and Oscilloscope Diagnosis	4.5
AUTO 60E	Automotive Fuel Injection	4.5
	Total Units Required	**18**

Advanced Engine Performance Technology

Certificate of Achievement

This Certificate of Achievement helps prepare students for an entry-level position in the automotive repair industry.

Student Learning Outcomes - upon completion, students will be able to:

- utilize the appropriate diagnostic equipment, documentation, and troubleshoot principles on various automotive systems.

1. Meet the requirements for this certificate level.
2. Complete the following.

AUTO 60F	No-Start Diagnosis	4.5
AUTO 60G	Advanced Scan Tool Diagnosis	4.5
AUTO 60H	Advanced Drivability and Onboard Diagnostics	4.5
AUTO 60J	Advanced Lab Scope and Waveform Diagnosis	4.5
	Total Units Required	**18**

Advanced Engine Performance Technology

Certificate of Achievement-Advanced
A.S. Degree

This Certificate of Achievement-Advanced and A.S. degree prepares students with advanced skills for an entry-level position in the automotive repair industry utilizing appropriate diagnostic equipment, documentation, and troubleshooting principles on various automotive systems.

Student Learning Outcomes - upon completion, students will be able to:

- identify the basic electrical circuits and diagnose automotive electrical systems.
- apply the basic principles of physics as they work in the automotive industry.
- interpret and analyze automotive ignition, fuel, and ignition systems.
- utilize appropriate diagnostic equipment, documentation, and troubleshooting principles on various automotive systems.

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level.
2. Complete the following.

AUTO 53A	Automotive Mechanisms	4
AUTO 60	Automotive Electrical Systems	9
AUTO 60A	Electrical Schematic Diagnosis	4.5
AUTO 60B	Automotive Electronics	4.5
AUTO 60C	Automotive Ignition, Fuel and Emission Systems	9
AUTO 60D	Ignition Analysis and Oscilloscope Diagnosis	4.5
AUTO 60E	Automotive Fuel Injection	4.5
AUTO 60F	No-Start Diagnosis	4.5
AUTO 60G	Advanced Scan Tool Diagnosis	4.5
AUTO 60H	Advanced Drivability and Onboard Diagnostics	4.5
AUTO 60J	Advanced Lab Scope and Waveform Diagnosis	4.5
	Total Units Required	**58**

A.S. Degree

Major	*Complete the Cert. of Achievement-Advanced requirements*	*58*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required	**90**

Automotive Chassis

Automotive Chassis Technology

Certificate of Achievement

This Certificate of Achievement prepares students for an entry-level position in automotive undercar inspection and repair procedures.

Student Learning Outcomes - upon completion, students will be able to:

- perform undercar inspections and repair suspension, steering, hydraulic, and active braking systems.

1. Meet the requirements for this certificate level.
2. Complete the following.

AUTO 61A	Automotive Brake Systems	4.5
AUTO 61B	Electronically Controlled Brake Systems	4.5
AUTO 62A	Automotive Suspension, Steering and Alignment	9
	Total Units Required	**18**

Automotive Chassis Technology

Certificate of Achievement-Advanced
A.S. Degree

This Certificate of Achievement-Advanced and A.S. degree prepares students with advanced skills for an entry-level position in the automotive repair industry in undercar inspection and repair procedures.

Student Learning Outcomes - upon completion, students will be able to:

- perform undercar inspections and repair suspension, hydraulic, and active braking systems.
- diagnose vehicle alignment concerns.
- identify the basic electrical circuits and diagnose automotive electrical systems.
- apply the basic principles of physics as they work in the automotive industry.

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level.
2. Complete the following.

AUTO 53A	Automotive Mechanisms	4
AUTO 60	Automotive Electrical Systems	9
AUTO 60A	Electrical Schematic Diagnosis	4.5
AUTO 60B	Automotive Electronics	4.5
AUTO 61A	Automotive Brake Systems	4.5
AUTO 61B	Electronically Controlled Brake Systems	4.5
AUTO 62A	Automotive Suspension, Steering and Alignment	9
AUTO 62B	Advanced Wheel Alignment	9
	Total Units Required	**49**

A.S. Degree

Major	*Complete the Cert. of Achievement-Advanced requirements*	*49*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required	**90**

Automotive Powertrain

Automotive Powertrain Technology

Certificate of Achievement

This Certificate of Achievement helps prepare students for an entry-level position in the automotive repair industry in automotive transmission and differential.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate knowledge of the overall operation of an automotive transmission and differential.

1. Meet the requirements for this certificate level.
2. Complete the following.

AUTO 63	Automatic Transmissions and Transaxles	9
AUTO 63A	Advanced Manual Drive Train	9
AUTO 63D	Transmission Diagnostic and Repair Techniques	4.5
	Total Units Required	**22.5**

Automotive Powertrain Technology

Certificate of Achievement-Advanced
A.S. Degree

This Certificate of Achievement-Advanced and A.S. degree prepares students with advanced skills for an entry-level position in automotive transmission and differential repair.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate knowledge of the overall operation of an automotive transmission and differential.
- identify the basic electrical circuits and diagnose automotive electrical systems.
- apply the basic principles of physics as they work in the automotive industry.

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level.
2. Complete the following.

AUTO 53A	Automotive Mechanisms	4
AUTO 60	Automotive Electrical Systems	9
AUTO 60A	Electrical Schematic Diagnosis	4.5
AUTO 60B	Automotive Electronics	4.5
AUTO 63	Automatic Transmissions and Transaxles	9
AUTO 63A	Advanced Manual Drive Train	9
AUTO 63D	Transmission Diagnostic and Repair Techniques	4.5
	Total Units Required	**44.5**

A.S. Degree

Major	*Complete the Cert. of Achievement-Advanced requirements*	*44.5*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required	**90**

Additional Certificates

Smog Technician

Certificate of Achievement

This Certificate of Achievement prepares students for an entry-level position in the automotive repair industry performing California state smog inspections.

Student Learning Outcomes - upon completion, students will be able to:

- perform a complete California state smog inspection.

1. Meet the requirements for this certificate level.
2. Complete the following.

AUTO 60C	Automotive Ignition, Fuel and Emission Systems	9
AUTO 65P	Clean Air Car Course	7
AUTO 65W	Advanced Clean Air Car Course	2.5
	Total Units Required	**18.5**

AUTOMOTIVE TECHNOLOGY

Advanced Automotive Technology

Certificate of Achievement

This Certificate of Achievement prepares students for an entry-level position in the automotive repair industry in advanced automotive electrical/environmental concepts.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate understanding of general advanced automotive electrical/environmental concepts as they relate to automotive service, diagnosis, and repair.

1. Meet the requirements for this certificate level.
2. Complete the following.

AUTO 60K	Automotive Body Electrical Systems	4.5
AUTO 66	Automotive Air Conditioning	4.5
AUTO 67A	Hybrid Electric Vehicles	4.5
AUTO 67B	Plug-In Electric Vehicle Technology	4.5
AUTO 67J	Introduction to Automotive and Light Truck Diesel Systems	4.5
	Total Units Required	**22.5**

Automotive Technology

Certificate of Achievement-Advanced (Options A - C)

Complete the course requirements for the certificate option of your choice.

Option A: Automotive Machining and Engine Repair

This Certificate of Achievement-Advanced prepares students for an entry-level position in the automotive repair industry in engine diagnostics.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate an application of four-stroke engine theory, basic safe machining practices, estimates and repair orders, and engine assembly.
- identify basic electrical circuits and diagnose automotive electrical circuit systems.
- apply the basic principles of physics as they work in the automotive industry.
- demonstrate knowledge of the job procurement process and hazardous materials/waste handling in the automotive industry.

1. Meet the requirements for this certificate level.
2. Complete the following.

AUTO 53A	Automotive Mechanisms	4
AUTO 53B	Automotive Electromechanical Systems	2
AUTO 57A	Career Research and Employment in the Automotive Industry	2
AUTO 94A	Principles of Four Stroke Cycle Gas and Diesel Engines	6
AUTO 94B	Automotive Machining and Engine Service	6
AUTO 94C	Automotive Machining and Engine Service	6
AUTO 94D	Automotive Machining and Engine Service	6
AUTO 94E	Automotive Machining and Engine Service	6
AUTO 94F	Automotive Machining and Engine Service	6
	Total Units Required	**44**

Option B: Automotive Engine Performance
This Certificate of Achievement-Advanced prepares students for an entry-level position in the automotive repair industry.

Student Learning Outcomes - upon completion, students will be able to:
- diagnose basic electrical, engine performance, and emissions systems.
- identify basic electrical circuits and diagnose automotive electrical circuit systems.
- apply the basic principles of physics as they work in the automotive industry.

1. Meet the requirements for this certificate level.
2. Complete the following.

AUTO 53A	Automotive Mechanisms	4
AUTO 53B	Automotive Electromechanical Systems	2
AUTO 57A	Career Research and Employment in the Automotive Industry	2
AUTO 99A	Automotive Electricity, Battery and Cranking Systems	7
AUTO 99B	Automotive Charging, Ignition and Accessory Systems	7
AUTO 99C	Introduction to Engine Performance Systems	7
AUTO 99D	Intermediate Engine Performance Systems	7
AUTO 99E	Basic Engine Performance Diagnostic Procedures	7
AUTO 99F	Intermediate Engine Performance Diagnostic Procedures	7
	Total Units Required	**50**

Option C: Automotive Chassis and Powertrain
This Certificate of Achievement-Advanced prepares students for an entry-level position in the automotive repair industry.

Student Learning Outcomes - upon completion, students will be able to:
- perform undercar inspections and repair suspension, steering, hydraulic, and active braking systems.
- demonstrate overall operation of an automotive transmission and differential as it relates to service, diagnosis, and repair.
- identify basic electrical circuits and diagnose automotive electrical circuit systems.
- apply the basic principles of physics as they work in the automotive industry.
- use written and oral communication skills to write repair orders and speak with customers.

1. Meet the requirements for this certificate level.
2. Complete the following.

AUTO 53A	Automotive Mechanisms	4
AUTO 53B	Automotive Electromechanical Systems	2
AUTO 57A	Career Research and Employment in the Automotive Industry	2
AUTO 91A	Automotive Brake Systems	6
AUTO 92A	Automotive Steering and Suspension	6
AUTO 92B	Automotive Alignment	6
AUTO 93A	Automotive Final Drive Train	6
AUTO 93B	Standard Transaxles	2
AUTO 93C	Automatic Transmissions	6
AUTO 93D	Automatic Transaxles	2
AUTO 93E	Diagnostic Techniques	1.5
AUTO 93F	Automotive Transmission Service	6
	Total Units Required	**49.5**

Automotive Technology
A.S. Degree (Options A - C)
Refer to the corresponding description, student learning outcomes, and course requirements for the Certificate of Achievement-Advanced option of your choice.

1. Complete the Certificate of Achievement-Advanced requirements. 44-50
2. Meet the A.A./A.S. degree requirements.
3. Complete the following.

Prerequisite:
Approved Automotive Technology Course Sequence Contract. See department for an application.

Major	*Complete the Cert. of Achievement-Advanced requirements, Option A, B or C*	*44-50*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required	**90**

Recommended
One year of automotive educational experience (high school, ROP or De Anza's AUTO 50 series).

BIOLOGICAL SCIENCES

Biological Sciences
A.S. Degree
The purpose of the Biological Sciences A.S. Degree is to provide a lower division science foundation for those interested in pursuing a Bachelors degree in Biology/Biological Sciences. This major prepares students for transfer to any University of California or California State University campus. A major in Biological Sciences prepares students for advanced academic work and for careers in civil service, industry or teaching. It also provides a background for professional training in such

fields as biotechnology, public health, nutrition, laboratory and field research, medicine, dentistry, pharmacy and veterinary medicine.

Student Learning Outcomes - upon completion, students will be able to:
- design and complete a biological research project applying scientific methods.
- correlate structure and function in biological systems.

1. Meet the A.A./A.S. degree requirements.
2. Complete the following.

BIOL 6A	Form and Function in the Biological World	6
or BIOL 6AH	Form and Function in the Biological World - HONORS	6
BIOL 6B	Cell and Molecular Biology	6
BIOL 6C	Ecology and Evolution	6
or BIOL 6CH	Ecology and Evolution - HONORS	6
CHEM 1A	General Chemistry	5
CHEM 1B	General Chemistry	5
CHEM 1C	General Chemistry and Qualitative Analysis	5

Complete one (1) sequence: 15-18

Option 1: Organic Chemistry

CHEM 12A	Organic Chemistry (5)
CHEM 12B	Organic Chemistry (5)
CHEM 12C	Organic Chemistry (5)

Option 2: Physics - General

PHYS 2A	General Introductory Physics (5)
PHYS 2B	General Introductory Physics (5)
PHYS 2C	General Introductory Physics (5)

Option 3: Physics - Engineers

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)

Major	*Biological Sciences*	*48-51*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

Recommended elective courses
BIOL 13, 15, 26, 40A, 40B, 40C
E S 1
ESCI 19
MATH 1A, 1AH, 1B, 1BH, 1C, 1CH, 1D, 1DH, 10, 10H

For students planning to transfer to a four-year institution, it may be beneficial to complete both the Organic Chemistry option and either 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

▼ The certificate of achievement in Business Administration can be earned by taking all required courses online. Some online courses may require on-campus participation in meetings, class events or exams, as detailed in the catalog.

Business Administration

Certificate of Achievement

The Business Administration Certificate of Achievement introduces the fundamental concepts and practices of business. Students obtain a basic understanding of the operation, methods, and purpose of each of the major functional areas within business: management, human resources, operations, marketing, accounting and finance. Students also learn business law fundamentals.

Student Learning Outcomes - upon completion, students will be able to:
- distinguish and explain the primary functions within business such as management, human resources, business law, operations, marketing, accounting, and finance.

1. Meet the requirements for this certificate level.
2. Complete the following.

ACCT 1A	Financial Accounting I	5
or ACCT 1AH	Financial Accounting I - HONORS	5
BUS 10	Introduction to Business	5
BUS 18	Business Law I	5

Complete two (2) courses: 8-10

BUS 21	Business and Society (5)
BUS 54	Business Mathematics (5)
BUS 55	Introduction to Entrepreneurship (5)
BUS 56	Human Relations in the Workplace (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 96	Principles of Management (5)
CIS 3	Business Information Systems (4.5)
	Total Units Required 23-25

Business Administration

A.A. Degree

The A.A. degree in Business Administration is a general business degree for those who want to pursue any of the numerous career possibilities in the field of business such as customer service/support representative, warehouse/ distribution supervisor, payroll clerk/administrator, accounts receivable clerk, collections analyst, executive assistant, and contracts administrator. this degree provides students with an understanding of basic business practices, including operations, methods, and purpose, and an introduction to the major functional areas within business.

Student Learning Outcomes - upon completion, students will be able to:

- explain how the primary functions within business (marketing, management, operations, human resources, accounting, finance, and business law) interact to achieve organizational goals.

1. Meet the A.A./A.S. degree requirements.
2. Complete the following.

ACCT 1A	Financial Accounting I	5
or ACCT 1AH	Financial Accounting I - HONORS	5
ACCT 1B	Financial Accounting II	5
or ACCT 1BH	Financial Accounting II - HONORS	5
ACCT 1C	Managerial Accounting	5
or ACCT 1CH	Managerial Accounting - HONORS	5
BUS 10	Introduction to Business	5
BUS 18	Business Law I	5
BUS 56	Human Relations in the Workplace	5
BUS 60	International Business Management	5
BUS 90	Principles of Marketing	5
BUS 96	Principles of Management	5
CIS 3	Business Information Systems	4.5
Major	*Business Administration*	*49.5*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

Recommended
BUS 21, 54, 55, 57, 58, 59, 65, 70, 85, 87, 89, 91
COMM 70, 70H
ECON 1, 1H, 2, 2H
ESL 6
EWRT 1B, 1BH, 2, 2H
MATH 10, 10H

Associate in Science in Business Administration for Transfer

A.S.-T. Degree

The Business Administration major consists of courses appropriate for an Associate in Science in Business Administration for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline, and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). Potential careers students may enter upon completion of this program include: payroll administrator, warehouse associate, accounts receivable administrator, accounts payable administrator, retail sales, customer service, executive assistant, and contracts administrator. The Associate in Science in Business Administration for Transfer is intended for students who plan to complete a bachelor's degree in Business Administration at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 (semester) units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Student Learning Outcomes - upon completion, students will be able to:

- successfully complete upper division courses in Business.

1. Meet the A.A.-T./A.S.-T. degree requirements for transfer.
2. Complete the following.

ACCT 1B	Financial Accounting II	5
or ACCT 1BH	Financial Accounting II - HONORS	5
ACCT 1C	Managerial Accounting	5
or ACCT 1CH	Managerial Accounting - HONORS	5
BUS 10	Introduction to Business	5
BUS 18	Business Law I	5
ECON 1	Principles of Macroeconomics	4
or ECON 1H	Principles of Macroeconomics - HONORS	4
ECON 2	Principles of Microeconomics	4
or ECON 2H	Principles of Microeconomics - HONORS	4
Complete two (2) courses:		**9.5-10**
CIS 3	Business Information Systems (4.5)	
or CIS 4	Computer Literacy (4.5)	
MATH 10	Elementary Statistics and Probability (5)	
or MATH 10H	Elementary Statistics and Probability - HONORS (5)	
MATH 11	Finite Mathematics (5)	
MATH 12	Introductory Calculus for Business and Social Science (5)	
Major	*Business Administration for Transfer*	*37.5-38*
Transfer GE	*CSU GE or IGETC for CSU pattern (47-61 units)*	
Electives	*CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90*	
	Total Units Required 90	

▼ The certificate of achievement in Entrepreneurship can be earned by taking all required courses online. Some online courses may require on-campus participation in meetings, class events or exams, as detailed in the catalog.

Entrepreneurship

Certificate of Achievement

Students pursuing the Certificate of Achievement in Entrepreneurship are taught the fundamentals of small business administration and business planning. The certificate is designed to prepare students for the challenges they are likely to encounter in starting and maintaining a small business.

Student Learning Outcomes - upon completion, students will be able to:

- critically evaluate business plans and describe the processes required to start, operate and measure the results of a small business.

1. Meet the requirements for this certificate level.
2. Complete the following.

BUS 55	Introduction to Entrepreneurship	5
BUS 58	The Business Plan	4

Complete three (3) courses:		**15**
BUS 59	Promoting Your Business with Social Media (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	

CHILD DEVELOPMENT

Child Development

Certificate of Achievement

This vocational training program prepares future early childhood workers and educators to work with diverse children in early childhood settings. The program includes academic instruction, job skills training, and field and community engagement experiences. Students acquire knowledge to integrate developmentally appropriate practices and their application to teaching young children along with skills in building relationships with children and families. This Certificate of Achievement meets entry-level professional requirements for teachers in early childhood programs and fulfills requirements to qualify as a teacher in a center licensed by the California Department of Social Services. Students who wish to qualify to become 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)."

The Certificate of Achievement is designed to meet the Child Development course requirements for a Child Development Associate Teacher Permit. The permit requires 18 quarter units (equivalent to 12 semester units).

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate the ability to work in a variety of settings with children and families with a commitment to uphold ethical standards.
- recognize the importance of community engagement and their role as local, national, and global advocates for children, families, and the community.
- integrate developmentally appropriate practices and their application to teaching young children.
- demonstrate skills in building relationships with children and families.

1. Meet the requirements for this certificate level
2. Complete the following.

Current Infant and Child CPR/First Aid Certificate required.

C D 10G	Child Development (The Early Years) *also listed as PSYC 10G*	4
C D 12	Child, Family and Community Interrelationships	4
C D 50	Principles and Practices of Teaching Young Children	4

Complete a minimum of nine (9) units:		**9**
C D 10H	Child Growth and Development (Middle Childhood and Adolescence) (4) *also listed as PSYC 10H*	
C D 52	Observation and Assessment of Children (4)	
C D 53	Creative Art for the Young Child (3)	
C D 54	Curriculum for Early Childhood Programs (4)	
C D 55	Literacy Development and Activities for the Young Child (3)	
C D 56	Understanding and Working with English Learners (3)	
C D 58	Infant/Toddler Development (5)	
C D 61	Music and Movement (Developmental Foundations) (3)	
C D 63	Math and Science Activities for the Young Child (3)	
C D 64	Health, Safety, and Nutrition for the Young Child (4)	
C D 68	Teaching in a Diverse Society (4)	
C D 71	Constructive Guidance and Positive Discipline in Early Childhood (3)	
C D 72	Partnerships with Families in Early Childhood Education (3)	

Practicum Requirement - complete one (1) course:		**5**
C D 51A	Basic Student Teaching Practicum (5)	
C D 57	Self-Assessment for Teachers of Young Children Using Reflective Practice: Field Experience (5)	
	Total Units Required 26	

Child Development

Certificate of Achievement-Advanced

This vocational training program prepares future early childhood workers and educators to work with diverse children in early childhood settings. The program includes academic instruction, job skills training, field experiences, and civic and community engagement skills. Students learn to integrate developmentally appropriate practices and apply them to curriculum design for teaching young children. They also learn how to build culturally responsive partnerships with children and families.

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.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate the ability to work in a variety of settings with children and families with a commitment to uphold ethical standards.
- recognize the importance of community engagement and their role as local, national, and global advocates for children, families, and the community.
- integrate developmentally appropriate practices and apply them to curriculum design for teaching young children.
- demonstrate skills in building culturally responsive partnerships with children and families.

1. Meet the requirements for this certificate level.
2. Complete the following.

Current Infant and Child CPR/First Aid Certificate required.

C D 10G	Child Development (The Early Years) *also listed as PSYC 10G*	4

C D 10H	Child Growth and Development (Middle Childhood and Adolescence) *also listed as PSYC 10H*	4
C D 12	Child, Family and Community Interrelationships	4
C D 50	Principles and Practices of Teaching Young Children	4
C D 52	Observation and Assessment of Children	4
C D 54	Curriculum for Early Childhood Programs	4
C D 64	Health, Safety, and Nutrition for the Young Child	4
C D 68	Teaching in a Diverse Society	4

Complete a minimum of three (3) units: 3

C D 53	Creative Art for the Young Child (3)
C D 55	Literacy Development and Activities for the Young Child (3)
C D 56	Understanding and Working with English Learners (3)
C D 57	Self-Assessment for Teachers of Young Children Using Reflective Practice: Field Experience (5)
C D 58	Infant/Toddler Development (5)
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 67	Supervision and Administration of Child Development Programs (Adult Supervision) (3)
C D 71	Constructive Guidance and Positive Discipline in Early Childhood (3)
EDUC 1	Introduction to Elementary Education in a Diverse Society (3)

Practicum Requirement: 5

C D 51A	Basic Student Teaching Practicum	5
	Total Units Required 40	

Child Development

A.A. Degree

The A.A. degree vocational training program prepares future early childhood workers and educators to work with diverse children in early childhood settings. The program prepares students for entry-level careers or entrance into a Bachelor's degree program in Child Development studies. The degree program focuses on integrating developmentally appropriate knowledge and practice, and developing professional competencies and job skills. Students learn how to build partnerships with local, national and international resource organizations in order to advocate effectively for the needs of children and families. The degree fulfills the Child Development course requirements to qualify for the Child Development Permit Site Supervisor on the California Child Development Matrix. Students who wish to qualify as a site supervisor must also take C D 59G "Supervision and Administration of Child Development Programs (Management Systems)", C D 59H "Supervision and Administration of Child Development Programs (Leadership Skills)" and C D 67 "Supervision and Administration of Child Development Programs (Adult Supervision)".

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate the ability to work in a variety of settings with children and families with a commitment to uphold ethical standards.
- build partnerships with local, national and international resource organizations in order to advocate effectively for the needs of children and families.
- integrate developmentally appropriate practices and their application to teaching young children.
- demonstrate skills in building relationships with children and families.

1. Meet the A.A./A.S. degree requirements.
2. Complete the following.

Current Infant and Child CPR/First Aid Certificate required.

C D 10G	Child Development (The Early Years) *also listed as PSYC 10G*	4
C D 10H	Child Growth and Development (Middle Childhood and Adolescence) *also listed as PSYC 10H*	4
C D 12	Child, Family and Community Interrelationships	4
C D 50	Principles and Practices of Teaching Young Children	4
C D 52	Observation and Assessment of Children	4
C D 54	Curriculum for Early Childhood Programs	4
C D 55	Literacy Development and Activities for the Young Child	3
C D 64	Health, Safety, and Nutrition for the Young Child	4
C D 67	Supervision and Administration of Child Development Programs (Adult Supervision)	3
C D 68	Teaching in a Diverse Society	4

Complete a minimum of three (3) units: 3

C D 53	Creative Art for the Young Child (3)
C D 56	Understanding and Working with English Learners (3)
C D 57	Self-Assessment for Teachers of Young Children Using Reflective Practice: Field Experience (5)
C D 58	Infant/Toddler Development (5)
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 71	Constructive Guidance and Positive Discipline in Early Childhood (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**
C D 51A	Basic Student Teaching Practicum	5
C D 51B	Advanced Student Teaching Practicum	5
Major	*Child Development*	*51*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

Associate in Science in Early Childhood Education for Transfer

A.S.-T. Degree

The Early Childhood Education major consists of courses appropriate for an Associate in Science in Early Childhood Education for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline, and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). The degree will facilitate the student's successful transfer to certain California State University (CSU) campuses that prepare them for advanced study in a variety of graduate programs, as well as a variety of careers such as teaching, Child Development Specialist, Program Directors, and Child Life Specialists, and paraprofessionals in early special education. With a B.A. in ECE/Child Development, students are eligible for the Master Teacher and Site Supervisor levels of the CA Child Development Permit, using the Alternative Qualifications category. The Associate in Science in Early Childhood Education for Transfer is intended for students who plan to complete a bachelor's degree in Early Childhood Education at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 (semester) units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Student Learning Outcomes - upon completion, students will be able to:

- synthesize child development research with principles and practices for early childhood teaching to create early learning environments that are respectful, supportive, and challenging for all children, from infancy through adolescence.
- design inclusive, culturally and linguistically appropriate learning environments, based on child development, child observations, family information and knowledge of culturally diverse child rearing practices.
- incorporate strategies for building respectful, reciprocal family and community relationships in order to support families with their children's development and learning.
- assess children's learning through observation, documentation, and interpretation, using results to guide curriculum and teaching strategies.
- recommend developmentally appropriate and culturally relevant approaches to teaching and learning that include respectful, supportive relationships with children and families, and curriculum that support foundational skills and concepts in language, math, science, art, and social relationships.
- demonstrate practices that maintain standards of health, nutrition, and safety in group care early childhood settings.
- apply ethical standards of behavior accepted by the profession of early childhood education.

1. Meet the A.A.-T./A.S.-T. degree requirements for transfer.
2. Complete the following.

C D 10G	Child Development (The Early Years) *also listed as PSYC 10G*	4
C D 10H	Child Growth and Development (Middle Childhood and Adolescence) *also listed as PSYC 10H*	4
C D 12	Child, Family and Community Interrelationships	4
C D 50*	Principles and Practices of Teaching Young Children	4
C D 51A*	Basic Student Teaching Practicum	5
C D 52*	Observation and Assessment of Children	4
C D 54*	Curriculum for Early Childhood Programs	4
C D 64*	Health, Safety, and Nutrition for the Young Child	4
C D 68*	Teaching in a Diverse Society	4

**C D 50, 51A, 52, 54, 64 and 68 must be taken fall 2013 or later to apply.*

Major	*Early Childhood Education for Transfer*	*37*
Transfer GE	*CSU GE or IGETC for CSU pattern (47-61 units)*	
Electives	*CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90*	
	Total Units Required 90	

Early Childhood Mental Health

Certificate of Achievement

De Anza College's Child Development and Education Department developed the Early Childhood Mental Health Certificate of Achievement to train mental health professionals at the entry- and advanced-level, ECE educators at the beginning and advanced-level, and professionals working in early education, mental health and community services settings and/or programs. Certificate requirements include student participation in field experiences with community-based, early childhood mental health programs. Students develop skills to work with both children and their families. The Certificate of Achievement is designed to meet Child Development course requirements for a Child Development Master Teacher level as specialization units. The Child Development Master Teacher permit requires 36 quarter units (equivalent to 24 semester

units) ECE/C D including core courses. The permit also requires 24 quarter units (equivalent to 16 semester units) of General Education courses plus 3 quarter units (equivalent to 2 semester units) of adult supervision.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate the ability to work in a variety of settings with children and families with a commitment to uphold ethical standards.
- recognize the importance of community engagement and their role as local, national, and global advocates for children, families, and the community.
- integrate early childhood mental health practices to support the development of social and emotional skills in young children.
- demonstrate skills in building relationships with children and families.

1. Meet the requirements for this certificate level.
2. Complete the following.

C D 10G	Child Development (The Early Years) *also listed as PSYC 10G*	4
C D 58	Infant/Toddler Development	5
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
	Total Units Required	**21**

Early Intervention/Special Education Assistant

Certificate of Achievement-Advanced

This vocational training program prepares future early childhood workers and educators to work with children with disabilities and special needs in public and private early intervention, special education and educational settings that serve typical and atypical developing young children and their families. Students are taught practical skills in early intervention and early childhood special education from a culturally responsive perspective. Students learn to integrate early intervention/special education practices and apply them to teaching young children with special needs. Certificate requirements include student participation in field experiences with community-based, inclusive educational programs. The Certificate of Achievement-Advancement prepares students for two career paths: early intervention assistant and early childhood teacher. It is the equivalent of the Teacher level permit on the California Child Development Matrix. The Teacher level permit also requires 24 quarter units (equivalent of 16 semester units) of General Education courses.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate the ability to work in a variety of settings with children and families with a commitment to uphold ethical standards.
- recognize the importance of community engagement and their role as local, national, and global advocates for children, families, and the community.
- integrate early intervention/special education practices and their application to teaching young children with special needs.
- demonstrate skills in building relationships with children and families.

1. Meet the requirements for this certificate level.
2. Complete the following.

Current Infant and Child CPR/First Aid Certificate required.

C D 10G	Child Development (The Early Years) *also listed as PSYC 10G*	4
C D 12	Child, Family and Community Interrelationships	4
C D 50	Principles and Practices of Teaching Young Children	4
C D 52	Observation and Assessment of Children	4
C D 55	Literacy Development and Activities for the Young Child	3
C D 58	Infant/Toddler Development	5
C D 60	Exceptional Children	3
C D 64	Health, Safety, and Nutrition for the Young Child	4
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: 3

C D 10H	Child Growth and Development (Middle Childhood and Adolescence) (4) *also listed as PSYC 10H*
C D 53	Creative Art for the Young Child (3)
C D 54	Curriculum for Early Childhood Programs (4)
C D 56	Understanding and Working with English Learners (3)
C D 57	Self-Assessment for Teachers of Young Children Using Reflective Practice: Field Experience (5)
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 (4)
C D 71	Constructive Guidance and Positive Discipline in Early Childhood (3)
C D 75	Social Emotional Development in Early Childhood (3)

Practicum Requirement: 5

The practicum experience must be completed in an Early Intervention/Special Education Environment with an inclusion component or an inclusion environment.

C D 51A	Basic Student Teaching Practicum	5
	Total Units Required	**45**

COMMUNICATION STUDIES
(FORMERLY SPEECH COMMUNICATION)

Communication Studies

Certificate of Achievement

Students earning the communication studies certificate of achievement learn the fundamentals of the discipline, which includes public speaking, group communication, interpersonal communication, organizational communication, mass communication, argumentation and critical thinking. This program helps students communicate effectively in their academic and work environments.

Student Learning Outcomes - upon completion, students will be able to:

- design and relate messages clearly and confidently.
- use a range of speaking, listening and collaboration skills.
- think and engage critically in a wide range of discourse.
- use communication for academic and career advancement.

1. Meet the requirements for this certificate level.
2. Complete the following.

Complete one (1) course: **5**

COMM 1	Public Speaking (5)
or COMM 1H	Public Speaking - HONORS (5)
COMM 10	Fundamentals of Oral Communication (5)
or COMM 10H	Fundamentals of Oral Communication - HONORS (5)

Complete one (1) course: **5**

COMM 8	Argumentation and Critical Inquiry in Oral Communication (5)
or COMM 8H	Argumentation and Critical Inquiry in Oral Communication - HONORS (5)
COMM 9*	Argumentation: Analysis of Oral and Written Communication (5)
COMM 15	Critical Decision-Making in Groups (5)
or COMM 15H	Critical Decision-Making in Groups - HONORS (5)

Complete a minimum of 10 units (not already taken): **10**

COMM 1	Public Speaking (5)
or COMM 1H	Public Speaking - HONORS (5)
COMM 7	Intercultural Communication (4) *also listed as ICS 7*
or COMM 7H	Intercultural Communication - HONORS (4) *also listed as ICS 7H*
COMM 8	Argumentation and Critical Inquiry in Oral Communication (5)
or COMM 8H	Argumentation and Critical Inquiry in Oral Communication - HONORS (5)
COMM 9*	Argumentation: Analysis of Oral and Written Communication (5)
COMM 10	Fundamentals of Oral Communication (5)
or COMM 10H	Fundamentals of Oral Communication - HONORS (5)
COMM 15	Critical Decision-Making in Groups (5)
or COMM 15H	Critical Decision-Making in Groups - HONORS (5)
COMM 16*	Interpersonal Communication (5)
or COMM 16H*	Interpersonal Communication - HONORS (5)
COMM 70*	Effective Organizational Communication (5)
or COMM 70H*	Effective Organizational Communication - HONORS (5)
COMM 77 series	COMM 77W, 77X, 77Y, 77Z Special Individual Projects in Speech Communication (1-4)
COMM 78 series	COMM 78W, 78X, 78Y, 78Z Special Topics in Speech Communication (1-4)
JOUR 2	Mass Communication and Its Impact on Society (4)
	Total Units Required 20

Note: Up to four (4) units from COMM 77 and 78 series courses may apply.

**High demand courses with limited quarterly offerings. Students should plan accordingly to ensure timely program completion.*

Communication Studies

A.A. Degree

De Anza's A.A. degree in Communication Studies provides a foundational understanding of the discipline and a breadth of coursework that can transfer toward a bachelor's degree in Communication Studies. Students develop knowledge and skills in expressing ideas verbally and non-verbally; learn to interpret, advocate and critically debate ideas; work productively in teams and groups; examine the role of culture in communication; and demonstrate the communication skills necessary to engage in personal, professional, civic and social relationships.

In addition to core coursework, students are required to declare a specialty area that allows them to make interdisciplinary connections and explore specific areas of interest. Contact a full-time Communication Studies instructor to create a specialty area of study (minimum 12 units) at least two quarters prior to completing your course of study. Your specialty area description with signed approval from the Communication Studies Department must accompany your application for the A.A. degree.

Student Learning Outcomes - upon completion, students will be able to:

- design and relate messages clearly and confidently.
- use a range of speaking, listening and collaboration skills.
- think and engage critically in a wide range of discourse.
- use communication for academic and career advancement.

1. Meet the A.A./A.S. degree requirements.
2. Complete the following.

Complete one (1) course: **5**

COMM 1	Public Speaking (5)
or COMM 1H	Public Speaking - HONORS (5)
COMM 10	Fundamentals of Oral Communication (5)
or COMM 10H	Fundamentals of Oral Communication - HONORS (5)

Complete one (1) course:		**5**
COMM 8	Argumentation and Critical Inquiry in Oral Communication (5)	
or COMM 8H	Argumentation and Critical Inquiry in Oral Communication - HONORS (5)	
COMM 9*	Argumentation: Analysis of Oral and Written Communication (5)	
Complete five (5) courses:		
COMM 7	Intercultural Communication *also listed as ICS 7*	4
or COMM 7H	Intercultural Communication - HONORS *also listed as ICS 7H*	4
COMM 15	Critical Decision-Making in Groups	5
or COMM 15H	Critical Decision-Making in Groups - HONORS	5
COMM 16*	Interpersonal Communication	5
or COMM 16H*	Interpersonal Communication - HONORS	5
COMM 70*	Effective Organizational Communication	5
or COMM 70H*	Effective Organizational Communication - HONORS	5
JOUR 2	Mass Communication and Its Impact on Society	4
Specialty Area Coursework:		**12**
Major	*Communication Studies*	*45*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

**High demand courses with limited quarterly offerings. Students should plan accordingly to ensure timely program completion.*

Associate in Arts in Communication Studies for Transfer

A.A.-T. Degree

The Communication Studies major consists of courses appropriate for an Associate in Arts in Communication Studies for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline, and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). The Associate in Arts in Communication Studies for Transfer is intended for students who plan to complete a bachelor's degree in Communication Studies at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 (semester) units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Student Learning Outcomes - upon completion, students will be able to:

- design and relate messages clearly and confidently.
- use a range of speaking, listening and collaboration skills.
- think and engage critically in a wide range of discourse.
- use communication for academic and career advancement.

1. Meet the A.A.-T./A.S.-T. degree requirements for transfer.
2. Complete the following.

Complete one (1) course:		**5**
COMM 1	Public Speaking (5)	
or COMM 1H	Public Speaking - HONORS (5)	
COMM 10	Fundamentals of Oral Communication (5)	
or COMM 10H	Fundamentals of Oral Communication - HONORS (5)	
Complete five (5) courses:		**23-24**
COMM 7	Intercultural Communication *also listed as ICS 7*	4
or COMM 7H	Intercultural Communication - HONORS *also listed as ICS 7H*	4
COMM 8	Argumentation and Critical Inquiry in Oral Communication	5
or COMM 8H	Argumentation and Critical Inquiry in Oral Communication - HONORS	5
COMM 15	Critical Decision-Making in Groups	5
or COMM 15H	Critical Decision-Making in Groups - HONORS	5
COMM 16*	Interpersonal Communication	5
or COMM 16H*	Interpersonal Communication - HONORS	5
COMM 70*	Effective Organizational Communication	5
or COMM 70H*	Effective Organizational Communication - HONORS	5
JOUR 2	Mass Communication and Its Impact on Society	4

Students under the minimum 27 units for a major, must complete six (6) courses instead of five (5) courses from the list above.

Major	*Communication Studies for Transfer*	*28-29*
Transfer GE	*CSU GE or IGETC for CSU pattern (47-61 units)*	
Electives	*CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90*	
	Total Units Required 90	

**High demand courses with limited quarterly offerings. Students should plan accordingly to ensure timely program completion.*

COMPUTER INFORMATION SYSTEMS

Computer Science

Associate in Science in Computer Science for Transfer

A.S.-T. Degree

The Computer Science major consists of courses appropriate for an Associate in Science in Computer Science for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline, and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). It is a starting point for students who are preparing for careers in software engineering, network administration, and data base management, where scientific

and technical skills are in great demand. It also provides a foundation for majors in physical science, math, and engineering. The Associate in Science in Computer Science for Transfer is intended for students who plan to complete a bachelor's degree in Computer Science at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 (semester) units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Student Learning Outcomes - upon completion, students will be able to:

- create, design, implement and debug solutions for computing systems of different levels of complexity using an object orientated language.
- create, design, implement and debug solutions for low-level systems using assembly language.

1. Meet the A.A.-T./A.S.-T. degree requirements for transfer.
2. Complete the following.

CIS 21JA	Introduction to x86 Processor Assembly Language and Computer Architecture	4.5
MATH 1A	Calculus	5
or MATH 1AH	Calculus - HONORS	5
MATH 1B	Calculus	5
or MATH 1BH	Calculus - HONORS	5
MATH 1C	Calculus	5
or MATH 1CH	Calculus - HONORS	5
MATH 22	Discrete Mathematics	5
PHYS 4A	Physics for Scientists and Engineers: Mechanics	6
PHYS 4B	Physics for Scientists and Engineers: Electricity and Magnetism	6

Complete one (1) option: 9-13.5

Option 1:

CIS 22A	Beginning Programming Methodologies in C++ (4.5)
CIS 22B	Intermediate Programming Methodologies in C++ (4.5)
or CIS 22BH	Intermediate Programming Methodologies in C++ - HONORS (4.5)
CIS 22C	Data Abstraction and Structure (4.5)
or CIS 22CH	Data Abstraction and Structure - HONORS (4.5)

Option 2:

CIS 22C	Data Abstraction and Structure (4.5)
or CIS 22CH	Data Abstraction and Structure - HONORS (4.5)
CIS 35A	Java Programming (4.5)

Major	*Computer Science for Transfer*	*45.5-50*
Transfer GE	*IGETC for CSU pattern (52 units)*	
Electives	*CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90*	
	Total Units Required 90	

Database Design

Database Design for Developers (Oracle)

Certificate of Achievement

The Database Design for Developers Certificate of Achievement includes database management system fundamentals, SQL, PL/SQL and performance tuning. Students become proficient in organizing essential information and abstract relationships into a database. they also learn to update, maintain, and repair databases and improve database performance. Database skills are applied by software engineers, business analysts, database architects, database administrators, database designers and reporting analysts.

Student Learning Outcomes - upon completion, students will be able to:

- prepare and review a database design that includes logical and system representations.
- design, code and debug SQL and PL/SQL programs.
- apply performance tuning techniques to large-scale database applications.
- create, design and debug intermediate level programs with basic C programming language.
- create a database that is optimized to meet defined technical requirements.

1. Meet the requirements for this certificate level.
2. Complete the following.

CIS 22A	Beginning Programming Methodologies in C++	4.5
CIS 22B	Intermediate Programming Methodologies in C++	4.5
or CIS 22BH	Intermediate Programming Methodologies in C++ - HONORS	4.5

Complete four (4) courses: 15.5-17.5

CIS 64A	Database Management Systems (4.5)
CIS 64B	Introduction to SQL (4.5)
CIS 64C	Introduction to PL/SQL (4.5)
CIS 64D	Database Tuning (3)
CIS 64E	Introduction to Large Scale Processing Systems (4)
CIS 64F	Introduction to Big Data and Analytics (4)
	Total Units Required 24.5-26.5

Enterprise Security

Enterprise Security Professional

Certificate of Achievement

This Certificate of Achievement prepares students to become Enterprise Security Technicians in a networking environment. In this program, students learn network security basics, security policies and procedures, network monitoring, and risk analysis and assessment based on network security.

Student Learning Outcomes - upon completion, students will be able to:

- describe network components, protocols, architectures and the application of current communication and networking technologies.

- define properties of all modern network types.
- detect and stop security breaches in network and application layers.
- help organizations increase awareness of security policies and procedures.

1. Meet the requirements for this certificate level.
2. Complete the following.

Prerequisites/Co-requisites:		**4.5**
CIS 108	Personal Computer Security Basics	4.5
Requirements:		**13.5**
CIS 18A	Introduction to Unix/Linux	4.5
CIS 56	Network Security	4.5
CIS 102	Ethical Hacking	4.5
Complete one (1) course:		**5**
CIS 66*	Introduction to Data Communication and Networking (5)	
CIS 75A*	Internet Concepts and TCP/IP Protocols (5)	
	Total Units Required	**23**

**Based on previous experience or knowledge, students may substitute another CIS course of equal or great unit value with departmental approval.*

Enterprise Security Professional

Certificate of Achievement-Advanced

This Certificate of Achievement-Advanced prepares students to become Enterprise Security Technicians in a networking environment. In this program, students learn network security basics, emergency response planning, internet protocols, and more advanced-level security policies and procedures, network monitoring, and risk analysis and assessment based on network security.

Student Learning Outcomes - upon completion, students will be able to:

- describe network components, protocols, architectures and the application of current communication and networking technologies.
- define properties of all modern network types.
- detect and stop security breaches in network and application layers.
- help organizations increase awareness of security policies and procedures.

1. Meet the requirements for this certificate level.
2. Complete the following.

Prerequisites/Co-requisites:		**4.5**
CIS 108	Personal Computer Security Basics	4.5
Requirements:		**18**
CIS 18A	Introduction to Unix/Linux	4.5
CIS 56	Network Security	4.5
CIS 102	Ethical Hacking	4.5
CIS 170F	Windows Administration	4.5
Complete one (1) course:		**5**
CIS 66*	Introduction to Data Communication and Networking (5)	
CIS 75A*	Internet Concepts and TCP/IP Protocols (5)	
Complete one (1) option:		**4.5-5**
Option 1: Information Assurance		
CIS 75D	Enterprise Security Policy Management (3)	
CIS 75E	Enterprise Emergency Response Planning (2)	
Option 2: Forensics		
CIS 104	Digital Forensics and Hacking Investigation (4.5)	
	Total Units Required	**32-32.5**

**Based on previous experience or knowledge, students may substitute another CIS course of equal or great unit value with departmental approval.*

Enterprise Security Professional

A.A. Degree

The A.A. degree program offers students the opportunity to study information security principles and theories that focus on asset protection. In this program, students learn network security basics, security policies and procedures, network monitoring, and risk analysis and assessment based on network security. Students in this program can pursue either a general course of study or a concentration in information security. Graduates find employment in general public or private management, federal or local government civil service, military service, law enforcement, and private security.

Student Learning Outcomes - upon completion, students will be able to:

- describe network components, protocols, architectures and the application of current communication and networking technologies.
- define properties of all modern network types.
- determine, at a more advanced level, how to detect and stop security breaches in network and application layer.
- help organizations increase awareness of security policies and procedures.

Major	*Complete the Cert. of Achievement-Advanced requirements*	*32-32.5*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required	**90**

Network Administration

Network Administration

Certificate of Achievement

This Certificate of Achievement offers studies in overseeing and maintaining Windows systems as part of a network enterprise. Students become proficient in running administrative processes on a Windows operating system. Focus is placed on organization, security, and upkeep decisions as part of a larger business environment.

Student Learning Outcomes - upon completion, students will be able to:

- identify computer hardware and networking components in the context of micro computers and various types of network operating systems, architectures and protocols.
- develop and present a business improvement plan using the business decision making model and utilizing software applications in word processing, spreadsheets, or databases.

1. Meet the requirements for this certificate level.
2. Complete the following.

CIS 4	Computer Literacy	4.5
CIS 66	Introduction to Data Communication and Networking	5
CIS 67A	Local Area Networks	4
CIS 108	Personal Computer Security Basics	4.5
CIS 170F	Windows Administration	4.5
	Total Units Required 22.5	

Network Administration

Certificate of Achievement-Advanced
A.A. Degree

This Certificate of Achievement-Advanced and A.A. degree offers studies in overseeing and maintaining Windows systems as part of a network enterprise. Students become proficient in running administrative processes on a Windows operating system. Focus is placed on organization, security, and upkeep decisions as part of a larger business environment. It offers training in programming, network management, UNIX and Perl to aid in understanding more complex networking problems that occur in business enterprises.

Student Learning Outcomes - upon completion, students will be able to:

- use UNIX/LINUX utilities and shell features for file manipulation and communication.
- create algorithms and code, document, debug, and test shell scripts that interact with the UNIX/LINUX OS.
- create algorithms to solve introductory-level problems using C programming and shell scripting or Perl languages.
- identify networking components and protocols in the context of architectures and technologies for LAN, WAN and Internet networks.

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level.
2. Complete the following.

CIS 18A	Introduction to Unix/Linux	4.5
CIS 22A	Beginning Programming Methodologies in C++	4.5
CIS 22B	Intermediate Programming Methodologies in C++	4.5
or CIS 22BH	Intermediate Programming Methodologies in C++ - HONORS	4.5
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:		**4.5**
CIS 18B	Advanced Unix/Linux (4.5)	
CIS 33A	Programming in Perl (4.5)	
Complete one (1) course:		**4.5-5**
CIS 31	Operating System Concepts (5)	
CIS 170F	Windows Administration (4.5)	
	Total Units Required 40.5-41	

A.A. Degree

Major	*Complete the Cert. of Achievement-Advanced requirements*	*40.5-41*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

Check with the CIS department about the recommended sequence for completing the above courses.

Programming/Network Programming

Business Programming

Certificate of Achievement-Advanced
A.A. Degree

The Business Programming Certificate of Achievement-Advanced and A.A. degree program creates a programming savvy entrepreneur who can make decisions about finances and technology, and who understands how to run an enterprise from both the technology and business perspectives. This program teaches skills combined from business and programming that enable a more in-depth view into the technology necessary to run a business in the 21st century.

Student Learning Outcomes - upon completion, students will be able to:

- analyze business requirements and architect, design and develop distributed business applications that meet these requirements to the level of user interfaces, algorithms, design patterns, security and storage strategies.

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level.
2. Complete the following.

ACCT 1A	Financial Accounting I	5
or ACCT 1AH	Financial Accounting I - HONORS	5
BUS 10	Introduction to Business	5
CIS 14A	Visual Basic .NET Programming I	4.5
CIS 22A	Beginning Programming Methodologies in C++	4.5
CIS 22B	Intermediate Programming Methodologies in C++	4.5
or CIS 22BH	Intermediate Programming Methodologies in C++ - HONORS	4.5
CIS 28	Object Orientated Analysis and Design	4.5
CIS 64A	Database Management Systems	4.5
Complete one (1) course:		**3-4.5**
CIS 56	Network Security (4.5)	
CIS 75D	Enterprise Security Policy Management (3)	

Complete one (1) course:		**4.5**
CIS 22C	Data Abstraction and Structures (4.5)	
or CIS 22CH	Data Abstraction and Structures - HONORS (4.5)	
CIS 29	Advanced C++ Programming (4.5)	
CIS 63	Systems Design (4.5)	

Complete one (1) course:		**4-5**
ACCT 86	Computer Accounting Systems (5)	
CIS 3	Business Information Systems (4.5)	
CIS 67A	Local Area Networks (4)	
CIS 95A	Project Management - A Practicum (5)	
CIS 95F	Managing Cloud Projects (4)	
	Total Units Required 44-46.5	

A.A. Degree

Major	*Complete the Cert. of Achievement-Advanced requirements*	*44-46.5*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

Check with the CIS department about the recommended sequence for completing the above courses.

▼ The certificate of achievement in Network Basics can be earned by taking all required courses online. Some online courses may require on-campus participation in meetings, class events or exams, as detailed in the catalog.

Network Basics

Certificate of Achievement

The Network Basics Certificate of Achievement prepares students for entry-level employment as a computer support or network technician. Students are introduced to programming, networking, and Internet protocols. This certificate program also gives students a foundation for further study in either network administration or programming.

Student Learning Outcomes - upon completion, students will be able to:

- create algorithms to solve introductory-level problems using C programming language through the stages of coding, documenting, debugging, reading and testing with various tools.
- identify networking components and protocols in the context of architectures and technologies for LAN, WAN and Internet networks.

1. Meet the requirements for this certificate level.
2. Complete the following.

CIS 22A	Beginning Programming Methodologies in C++	4.5
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 18.5	

Network Programming

Certificate of Achievement-Advanced
A.A. Degree

This Certificate of Achievement-Advanced and A.A. degree gives students a foundation for either employment or further study in the field of network programming. The curriculum offers students an introduction to computer programming, networking, and Internet protocols. Advanced topics include data structures, advanced computer programming, Internet programming with TCP/IP, and UNIX/LINUX utilities and shell features for file manipulation and communication.

Student Learning Outcomes - upon completion, students will be able to:

- design solutions for advanced network problems creating distributed programs using Transmission Control Protocol and Internet Protocol.
- create algorithms and code, document, debug and test advanced-level C programs using multiple source and header files.
- use UNIX/LINUX utilities and shell features for file manipulation and communication.

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level.
2. Complete the following.

CIS 18A	Introduction to Unix/Linux	4.5
CIS 22A	Beginning Programming Methodologies in C++	4.5
CIS 22B	Intermediate Programming Methodologies in C++	4.5
or CIS 22BH	Intermediate Programming Methodologies in C++ - HONORS	4.5
CIS 22C	Data Abstraction and Structures	4.5
or CIS 22CH	Data Abstraction and Structures - HONORS	4.5
CIS 26B	Advanced C Programming	4.5
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	4.5

Complete one (1) course:		**4-5**
CIS 18B	Advanced Unix/Linux (4.5)	
CIS 21JA	Introduction to x86 Processor Assembly Language and Computer Architecture (4.5)	
CIS 31	Operating System Concepts (5)	
CIS 33A	Programming in Perl (4.5)	
CIS 67A	Local Area Networks (4)	
CIS 67B	Introduction to Wide Area Networking (4)	
	Total Units Required 41-42	

A.A. Degree

Major	*Complete the Cert. of Achievement-Advanced requirements*	*41-42*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required ..... 90 units	

Check with the CIS department about the recommended sequence for completing the above courses.

Programming in C/C++

Certificate of Achievement

The C/C++ Certificate of Achievement prepares students for entry-level employment in computer programming, software testing and integration, software analysis or algorithm design. The curriculum offers students an introduction to programming in C, intermediate problem solving in C, and advanced C/C++ programming and design. The Certificate of Achievement also provides a solid foundation and skill set for those interested in pursuing further study towards a Certificate of Achievement-Advanced or A.A. degree in Systems Programming or Business Programming.

Student Learning Outcomes - upon completion, students will be able to:

- read, analyze and explain advanced C/C++ programs.
- design solutions for advanced problems using appropriate design methodology incorporating advanced programming constructs.
- create algorithms and code, document, debug and test advanced level C/C++ programs using multiple source and header files.

1. Meet the requirements for this certificate level.
2. Complete the following.

CIS 22A	Beginning Programming Methodologies in C++	4.5
CIS 22B	Intermediate Programming Methodologies in C++	4.5
or CIS 22BH	Intermediate Programming Methodologies in C++ - HONORS	4.5
CIS 22C	Data Abstraction and Structures	4.5
or CIS 22CH	Data Abstraction and Structures - HONORS	4.5
Complete one (1) course:		**4.5**
CIS 26B	Advanced C Programming (4.5)	
CIS 29	Advanced C++ Programming (4.5)	
	Total Units Required	**18**

Programming in Java

Certificate of Achievement

This Certificate of Achievement gives students the knowledge and skills necessary to develop client/server, web and mobile environments. Organizations running networks on private and public clouds which pass information among desktop, servers and mobile devices, count on Java as a general-purpose, object-oriented solution to fulfill the development requirement of applications. The flexible nature of the language is driving the demand for trained Java programmers.

Student Learning Outcomes - upon completion, students will be able to:

- read, analyze and debug code using Core Java.
- design solutions using object-oriented programming constructs and advanced concepts in the Java Development Kit.
- design web applications using a three-tier architecture and applying advanced concepts for Java Enterprise Edition.
- design Java programs for the Android platform.
- create, design and debug advanced-level programs with Java language.

1. Meet the requirements for this certificate level.
2. Complete the following.

CIS 22A	Beginning Programming Methodologies in C++	4.5
CIS 22B	Intermediate Programming Methodologies in C++	4.5
or CIS 22BH	Intermediate Programming Methodologies in C++ - HONORS	4.5
CIS 35A	Java Programming	4.5
CIS 35B	Advanced Java Programming	4.5
CIS 53	Java for Mobile Development	4.5
	Total Units Required	**22.5**

Programming in Perl

Certificate of Achievement

The Programming in Perl Certificate of Achievement certifies that the student can create Perl programs. Perl is a continuously developing language, designed for practical management of important server systems. Perl programming is a key skill used in server processing, web host processing, and integrating multiple subsystems. Students develop basic knowledge of Perl, which enables them to match interfaces of web protocol subsystems, the operating system, and database subsystems.

Student Learning Outcomes - upon completion, students will be able to:

- read, analyze and explain intermediate level C programs.
- design solutions for intermediate-level problems using appropriate design methodology incorporating intermediate programming constructs.
- create algorithms and code, document, debug, and test intermediate level C programs.
- use the UNIX/LINUX Operating System utilities and shell features for basic file manipulation, networking, and communication.
- design, code, document, analyze, debug, and test advanced-level Perl programs that include object-oriented Perl modules and access to database, TCP/IP, and system processes.

1. Meet the requirements for this certificate level.
2. Complete the following.

CIS 18A	Introduction to Unix/Linux	4.5
CIS 22A	Beginning Programming Methodologies in C++	4.5
CIS 22B	Intermediate Programming Methodologies in C++	4.5
or CIS 22BH	Intermediate Programming Methodologies in C++ - HONORS	4.5
CIS 33A	Programming in Perl	4.5
CIS 33B	Advanced Perl Programming	4.5
	Total Units Required	**22.5**

Programming in Python NEW

Certificate of Achievement

Python is best known for applications in data analytics and big data processing. Python is also popular in many other software application fields, including graphics, database, network programming, game development, embedded systems, and

web and internet development. Organizations running networks on private and public clouds count on Python as a general-purpose solution to fulfill the development requirement of applications. The flexible nature of the language is driving the demand for trained Python programmers, and the certificate of achievement will prepare students for jobs that require professional level Python programming skills. In addition, Python is also good building block to jump start to other programming languages such as JavaScript, Perl, Ruby, and other key programming languages.

Student Learning Outcomes - upon completion, students will be able to:

- create algorithms, code, document, debug and test Python programs that include Python modules for database, networking, graphics and extensions.
- read and analyze Python programs.

1. Meet the requirements for this certificate level.
2. Complete the following.

CIS 41A	Python Programming	4.5
CIS 41B	Advanced Python Programming	4.5

Complete one (1) course:		**4.5**
CIS 22A	Beginning Programming Methodologies in C++ (4.5)	
CIS 36A	Introduction to Computer Programming Using Java (4.5)	
CIS 40	Introduction to Programming in Python (4.5)	

Complete one (1) course:		**4.5-5**
CIS 22B	Intermediate Programming Methodologies in C++ (4.5)	
or CIS 22BH	Intermediate Programming Methodologies in C++ - HONORS (4.5)	
CIS 26A	C as a Second Programming Language (4.5)	
CIS 27	Programming in C++ for C/Java Programmers (4.5)	
CIS 35A	Java Programming (4.5)	
CIS 36B	Intermediate Problem Solving in Java (4.5)	
CIS 64B	Introduction to SQL (4.5)	
CIS 66	Introduction to Data Communication and Networking (5)	
	Total Units Required 18-18.5	

Systems Programming

Certificate of Achievement-Advanced
A.A. Degree

Students pursuing the Systems Programming Certificate of Achievement-Advanced or A.A. degree learn computer programming fundamentals of both low-level and high-level languages and gain computing experience on both Windows and Linux platforms.

Student Learning Outcomes - upon completion, students will be able to:

- create a design, implement and debug solutions for computing systems of different levels of complexity using C and C++.
- create, design, implement, and debug solutions for embedded systems such as 8086/ IA32 processor using Assembly Language.
- use UNIX/LINUX utilities and shell features for file manipulation and communication.

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level.
2. Complete the following.

CIS 18A	Introduction to Unix/Linux	4.5
CIS 21JA	Introduction to x86 Processor Assembly Language and Computer Architecture	4.5
CIS 22A	Beginning Programming Methodologies in C++	4.5
CIS 22B	Intermediate Programming Methodologies in C++	4.5
or CIS 22BH	Intermediate Programming Methodologies in C++ - HONORS	4.5
CIS 22C	Data Abstraction and Structures	4.5
or CIS 22CH	Data Abstraction and Structures - HONORS	4.5
CIS 26B	Advanced C Programming	4.5
CIS 29	Advanced C++ Programming	4.5
CIS 31	Operating System Concepts	5

Complete one (1) course:		**4-5**
CIS 18B	Advanced Unix/Linux (4.5)	
CIS 28	Object Oriented Analysis and Design (4.5)	
CIS 35A	Java Programming (4.5)	
CIS 66	Introduction to Data Communication and Networking (5)	
CIS 95F	Managing Cloud Projects (4)	
	Total Units Required 40.5-41.5	

Check with the CIS department about the recommended sequence for completing the above courses.

A.A. Degree

Major	*Complete the Cert. of Achievement-Advanced requirements*	*40.5-41.5*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

Check with the CIS department about the recommended sequence for completing the above courses.

UNIX/LINUX Operating System

Certificate of Achievement

Students pursuing the UNIX/LINUX Operating System Certificate of Achievement learn the fundamentals of the UNIX/LINUX OS, ranging from text file manipulation, job control, and communication to implementation of shell scripts to automate tasks.

Student Learning Outcomes - upon completion, students will be able to:

- use UNIX/LINUX utilities and shell features for file manipulation, job control, and communication.
- create algorithms and code, document, debug, and test shell scripts that interact with the UNIX/LINUX Operating System.

1. Meet the requirements for this certificate level.
2. Complete the following.

CIS 18A	Introduction to Unix/Linux	4.5
CIS 18B	Advanced Unix/Linux	4.5
CIS 18C	Shell Programming	4.5
CIS 22A	Beginning Programming Methodologies in C++	4.5
CIS 22B	Intermediate Programming Methodologies in C++	4.5
or CIS 22BH	Intermediate Programming Methodologies in C++ - HONORS	4.5
	Total Units Required 22.5	

Visual Basic Programming

Certificate of Achievement

The Visual Basic Certificate of Achievement prepares students for entry-level positions such as: Visual Basic developer, .NET developer, and web database developer. Additionally, students will enhance their skills in working with spreadsheets and databases and these skills can be applied to degrees in MIS, web development, or any associated area.

Student Learning Outcomes - upon completion, students will be able to:

- develop and present a plan for improving a business using the business decision making model utilizing hardware and software applications such as word processing, spreadsheets, and/or databases.
- design, create and debug an application incorporating class modules, bas modules, multiple forms, and database updating.
- design, create, and debug a Web application using ASP.NET 3.5.

1. Meet the requirements for this certificate level.
2. Complete the following.

ACCT 86	Computer Accounting Systems	5
CIS 3	Business Information Systems	4.5
CIS 14A	Visual Basic .NET Programming I	4.5
CIS 14B	Visual Basic .NET Programming II	4.5
	Total Units Required 18.5	

Web Development

Certificate of Achievement

The Certificate of Achievement in Web Development certifies that the student can create web pages and client side programming for web pages.

Student Learning Outcomes - upon completion, students will be able to:

- create algorithms and code, document, debug, and test introductory-level programs in a high-level programming language.
- create web pages using Extensible Hypertext Markup Language (XHTML), Cascading Style Sheets (CSS), JavaScript, and the Document Object Model (DOM), and demonstrate how they interact together within a web document.

1. Meet the requirements for this certificate level.
2. Complete the following.

Complete one (1) course:		**4.5**
CIS 14A	Visual Basic .NET Programming I (4.5)	
CIS 22A	Beginning Programming Methodologies in C++ (4.5)	
CIS 40	Introduction to Programming in Python (4.5)	
Complete four (4) courses:		**15-18**
CIS 18A	Introduction to Unix/Linux (4.5)	
CIS 55	iOS Development (4.5)	
CIS 89A	Web Page Development (3)	
CIS 89C	Client-Side Programming with JavaScript (4.5)	
CIS 89D	Rich Internet Application Development (4.5)	
CIS 97	FLASH Animation (3)	
CIS 98	Digital Image Editing Software (Photoshop) 4.5)	
	Total Units Required 19.5-22.5	

DESIGN AND MANUFACTURING TECHNOLOGIES

Computer Aided Design - Mechanical

Certificate of Achievement

Students pursuing De Anza College's Computer Aided Design - Mechanical Certificate of Achievement will receive education in the fundamentals of CAD that combines the use of two types of design graphic software packages. Students will learn substantive job skills in Creo and SolidWorks CAD systems that will make them employable in industrial and mechanical engineering and design.

Student Learning Outcomes - upon completion, students will be able to:

- solve basic and complex drafting and design application problems using industry standard two-dimensional and three-dimensional software and feature-based parametric design software.
- apply the fundamentals of computer-aided drafting and design to disciplines such as architectural, mechanical, and industrial design and engineering.
- utilize industry standard microcomputer CAD software and the hardware, operating systems and peripherals used to facilitate it.
- create engineering notes and scaled drawings using ASME and/or International Standards Organization (ISO) specifications.
- satisfy a prospective employer with quality technical expertise in the use of two CAD tools (SolidWorks and Creo) at a level commensurate with entry- to mid-level usage in industry design and engineering.

1. Meet the requirements for this certificate level.
2. Complete the following.

DMT 52	Geometric Dimensioning and Tolerancing: CAD Applications	2
Complete one (1) course from the series:		**4**
DMT 60A - 60E series	SolidWorks (Beginning) (4)	

Complete one (1) course from the series: **4**
DMT 61A - 61E series
SolidWorks (Intermediate) (4)

Complete one (1) course from the series: **4**
DMT 65A - 65E series
Creo Parametric (Beginning) (4)

Complete one (1) course from the series: **4**
DMT 66A - 66E series
Creo Parametric (Intermediate) (4)
Total Units Required 18

CNC Machinist

Certificate of Achievement

The Computer Numerical Control (CNC) Machinist Certificate of Achievement teaches students the fundamentals of conventional and CNC machine tools. Students learn how to set up safely and operate manual mills and lathes and construct word address programs for the set-up and operation of CNC mills. Upon completion, students are prepared for employment in manufacturing facilities as set up persons, machine operators and production workers. This certificate is part of a career ladder. Students may also choose to complete a Certificate of Achievement-Advanced or A.S. degree.

Student Learning Outcomes - upon completion, students will be able to:

- set up and operate conventional and CNC machines safely.
- construct and inspect machined projects using conventional and CNC equipment.
- construct word address programs to machine projects.

1. Meet the requirements for this certificate level.
2. Complete the following.

DMT 80	Introduction to Machining and CNC Processes	5
DMT 84A	Introduction to Computer-Aided Numerical Control (CNC) Programming and Operation; Mills	5
DMT 84B	Computer-Aided Numerical Control (CNC) Programming and Operation; Lathe Introduction, Advanced Mills	5
DMT 90	Print Reading and Machine Shop Calculations	4.5
	Total Units Required 19.5	

CNC Machinist

Certificate of Achievement-Advanced
A.S. Degree

The CNC Machinist Certificate of Achievement-Advanced and A.S. degree teaches students the fundamentals of CNC machine tools. Students learn safe set-up, editing and operation of CNC equipment, including vertical and horizontal mills, lathes and rotary multi-axis components. Students are taught to dimension and inspect parts using various inspection methods, and to analyze materials and processes used in manufacturing. Upon completion, students are prepared for employment in manufacturing facilities as CNC set-up persons and machine operators.

Student Learning Outcomes - upon completion, students will be able to:

- construct and inspect machined projects using CNC equipment with word address programs.
- apply geometric dimensioning and tolerance standards to inspect drawings and inspect parts using a coordinate measuring machine.
- differentiate and analyze the materials and processes used in manufacturing.
- produce tool paths with constructed and imported geometry using Mastercam.
- apply advanced machining skills by independently contracting projects.

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level.
2. Complete the following.

DMT 80	Introduction to Machining and CNC Processes	5
DMT 84A	Introduction to Computer-Aided Numerical Control (CNC) Programming and Operation; Mills	5
DMT 84B	Computer-Aided Numerical Control (CNC) Programming and Operation; Lathe Introduction, Advanced Mills	5
DMT 84C	CNC Lathes-Horizontal Mill-4th Axis Rotary-Programming Operations	5
DMT 90	Print Reading and Machine Shop Calculations	4.5
DMT 92	Applied Geometric Inspection Dimensioning and Tolerancing (ASME Y14.5m); Coordinate Measuring Machines (CMM)	4
DMT 95	Manufacturing Materials and Processes	4

Complete one (1) course from the series: **5**
DMT 87D - 87E series
CAD/CAM Based Computer Numerical Control Programming Using Mastercam (5)

Complete one (1) course from the series: **5**
DMT 87J - 87K series
CAD/CAM Based CNC Surface Contouring Programming Using Mastercam (5)

Complete one (1) course from the series: **5**
DMT 87N - 87Q series
CAD/CAM Based CNC 4 and 5 Axis Mill/Lathe Programming Using Mastercam (5)

Complete one (1) course from the series: **5**
DMT 89A - 89E series
CAM Based CNC Multi-Axis Programming Using NX (5)

Complete one (1) course: **2**

DMT 77A	Special Projects in Manufacturing and CNC/Mastercam Certification Level 1 (2)	
DMT 77B	Special Projects in Manufacturing and CNC/Mastercam Certification Level 2 (2)	
DMT 77C	Special Projects in Manufacturing and CNC/Mastercam Certification Level 3 (2)	
	Total Units Required 54.5	

A.S. Degree

Major	*Complete the Cert. of Achievement-Advanced requirements*	*54.5*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

CNC Programming - CAD/CAM

Certificate of Achievement

The CNC Programming - CAD/CAM Certificate of Achievement teaches students 2D, 3D, lathe and multi-axis machine tool programming. Students learn to construct geometry, select tools, and produce and verify tool paths. Upon completion, students are prepared for employment as entry-level programmers in prototype and production manufacturing facilities. This certificate is part of a career ladder. Students may also choose to complete a Certificate of Achievement-Advanced or A.S. degree in CNC Machinist.

Student Learning Outcomes - upon completion, students will be able to:

- design and construct 2D, 3D, lathe, horizontal and multi-axis part geometry.
- select tools and produce tool paths with constructed and imported geometry.
- verify tool paths and create word address programs for CNC machines.

1. Meet the requirements for this certificate level.
2. Complete the following.

Complete one (1) course from the series: 5

DMT 87D - 87E series

CAD/CAM Based Computer Numerical Control Programming Using Mastercam (5)

Complete one (1) course from the series: 5

DMT 87J - 87K series

CAD/CAM Based CNC Surface Contouring Programming Using Mastercam (5)

Complete one (1) course from the series: 5

DMT 87N - 87Q series

CAD/CAM Based CNC 4 and 5 Axis Mill/Lathe Programming Using Mastercam (5)

Complete one (1) course from the series: 5

DMT 89A - 89E series

CAM Based CNC Multi-Axis Programming Using NX (5)

Total Units Required 20

CNC Research and Development Machinist

Certificate of Achievement-Advanced

A.S. Degree

The Certificate of Achievement-Advanced and A.S. degree teaches students the fundamentals of conventional and CNC machine tools. Students learn to set up safely and operate manual mills, lathes, surface grinders and CNC equipment, including vertical and horizontal mills, lathes and rotary multi-axis components. They also learn to produce word address programs with CAD/CAM software. Students are taught to dimension and inspect parts using various inspection methods, and to analyze materials and processes used in manufacturing. Upon completion, students are prepared for employment working closely with engineers in a research and development environment.

Student Learning Outcomes - upon completion, students will be able to:

- construct and inspect machined projects using conventional and CNC equipment using word address programs.
- apply geometric dimensioning and tolerance standards to inspect drawings and inspect parts using a coordinate measuring machine.
- differentiate and analyze the materials and processes used in manufacturing.
- analyze, construct, and inspect diagrams to repair physical and electrical components.
- produce tool paths with constructed and imported geometry using Mastercam.

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level.
2. Complete the following.

DMT 80	Introduction to Machining and CNC Processes	5
DMT 82	Machining Practices Using Conventional Machine Tools, Tool Design, Abrasive Machining	5
DMT 84A	Introduction to Computer-Aided Numerical Control (CNC) Programming and Operation; Mills	5
DMT 84B	Computer-Aided Numerical Control (CNC) Programming and Operation; Lathe Introduction, Advanced Mills	5
DMT 84C	CNC Lathes-Horizontal Mill-4th Axis Rotary-Programming Operations	5
DMT 90	Print Reading and Machine Shop Calculations	4.5
DMT 92	Applied Geometric Inspection Dimensioning and Tolerancing (ASME Y14.5m); Coordinate Measuring Machines (CMM)	4
DMT 95	Manufacturing Materials and Processes	4

Complete one (1) course from the series: 5

DMT 87D - 87E series

CAD/CAM Based Computer Numerical Control Programming Using Mastercam (5)

Complete one (1) course from the series: 5

DMT 87J - 87K series

CAD/CAM Based CNC Surface Contouring Programming Using Mastercam (5)

Complete one (1) course from the series: 5

DMT 87N - 87Q series

CAD/CAM Based CNC 4 and 5 Axis Mill/Lathe Programming Using Mastercam (5)

Complete four (4) units:		**4**
DMT 77D	Special Projects in Manufacturing and CNC/NIMS Level 1 (2)	
DMT 77E	Special Projects in Manufacturing and CNC/NIMS Level 2 (2)	
DMT 77F	Special Projects in Manufacturing and CNC/NIMS Level 3 (2)	
	Total Units Required	**56.5**

A.S. Degree

Major	*Complete the Cert. of Achievement-Advanced requirements*	*56.5*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required	**90**

Product Model Making

Certificate of Achievement-Advanced
A.S. Degree

Students in the Certificate of Achievement-Advanced and A.S. degree are taught the fundamentals of Product Model Making. Students learn the safe set-up of CNC equipment, how to design and construct three-dimensional objects using CAD/CAM software, and how to analyze materials and processes used in prototype model making. Upon completion, students are prepared for employment working in design-stage product development, and prototype and model making environments.

Student Learning Outcomes - upon completion, students will be able to:

- construct and inspect machined projects using conventional and CNC equipment that uses word address programs.
- design and construct three-dimensional objects.
- create part geometry using SolidWorks or Creo/Pro Engineer CAD software.
- differentiate and analyze the materials and processes used in manufacturing.
- produce tool paths with constructed and imported geometry using Mastercam.

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level.
2. Complete the following.

ARTS 10A	Three-Dimensional Design	4
ARTS 10B	Intermediate Three-Dimensional Design	4
DMT 80	Introduction to Machining and CNC Processes	5
DMT 84A	Introduction to Computer-Aided Numerical Control (CNC) Programming and Operation; Mills	5
DMT 84B	Computer-Aided Numerical Control (CNC) Programming and Operation; Lathe Introduction, Advanced Mills	5
DMT 95	Manufacturing Materials and Processes	4

Complete one (1) course from either series:		**4**
DMT 60A - 60E series		
	SolidWorks (Beginning) (4)	
DMT 65A - 65E series		
	Creo Parametric (Beginning) (4)	

Complete one (1) course from the series:		**5**
DMT 87D - 87E series		
	CAD/CAM Based Computer Numerical Control Programming Using Mastercam (5)	

Complete one (1) course from the series:		**5**
DMT 87J - 87K series		
	CAD/CAM Based CNC Surface Contouring Programming Using Mastercam (5)	

Complete one (1) course from the series:		**5**
DMT 87N - 87Q series		
	CAD/CAM Based CNC 4 and 5 Axis Mill//Lathe Programming Using Mastercam (5)	
	Total Units Required	**46**

A.S. Degree

Major	*Complete the Cert. of Achievement-Advanced requirements*	*46*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required	**90**

Quality Control Technician NEW

Certificate of Achievement

The Quality Control Technician Certificate of Achievement prepares students in the fundamentals of machining techniques, dimensional metrology, interpretation of multi-view engineering prints, and applied geometric inspection dimensioning and tolerancing (ASME Y14.5m). Students also learn the correct operation of coordinate measuring machines (CMM) and the principles of manufacturing quality control and associated standards. Students in the Quality Control Technician program are instructed on how to inspect parts using various inspection methods; interpret drawings used in manufacturing; and record, analyze and document findings using various quality assurance procedures. Program students also learn the safe set-up and operation of CMM and related measuring instruments. Upon completion of the certificate requirements, students are prepared for employment in manufacturing facilities as quality control inspectors and technicians.

Student Learning Outcomes - upon completion, students will be able to:

- analyze, construct, and inspect assigned machined projects using the introductory principles of machining.
- demonstrate the ability to interpret multi-view drawings and prints.
- demonstrate the ability to utilize common gauges, measurement instruments, and calibration tools.
- apply geometric dimensioning and tolerancing standards to interpret drawings and inspect manufactured parts.
- demonstrate basic operation of the coordinate measuring machine (CMM) to inspect manufactured parts.
- demonstrate a working knowledge of calibration systems, inspection methodology, statistical process control indices and quality sampling techniques.

1. Meet the requirements for this certificate level.
2. Complete the following.

DMT 80	Introduction to Machining and CNC Processes	5
DMT 90	Print Reading and Machine Shop Calculations	4.5
DMT 91	Dimensional Metrology	4.5
DMT 92	Applied Geometric Inspection Dimensioning and Tolerancing (ASME Y14.5m); Coordinate Measuring Machines (CMM)	4
DMT 93	Introduction to Quality Assurance	4
	Total Units Required 22	

ECONOMICS

NEW

Associate in Arts in Economics for Transfer

A.A.-T. Degree

The Economics major consists of courses appropriate for an Associate in Arts in Economics for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline, and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). The Associate in Arts in Economics for Transfer is intended for students who plan to complete a bachelor's degree in Economics at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 (semester) units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Student Learning Outcomes - upon completion, students will be able to:

- develop a critical way of thinking with the goal of optimal decision-making in everyday life.
- demonstrate the ability to analyze and understand the current economic situation using diverse economic theories and how they impact society's well-being.

1. Meet the A.A.-T./A.S.-T. degree requirements for transfer.
2. Complete the following.

ECON 1	Principles of Macroeconomics	4
or ECON 1H	Principles of Macroeconomics - HONORS	4
ECON 2	Principles of Microeconomics	4
or ECON 2H	Principles of Microeconomics - HONORS	4
MATH 10	Elementary Statistics and Probability	5
or MATH 10H	Elementary Statistics and Probability - HONORS	5

Complete one (1) option: 5-10

Option 1:

MATH 1A	Calculus (5)
or MATH 1AH	Calculus - HONORS (5)
MATH 1B	Calculus (5)
or MATH 1BH	Calculus - HONORS (5)

Option 2:

MATH 12	Introductory Calculus for Business and Social Science (5)

Complete one (1) option: 5-10

Option 1:

ACCT 1A	Financial Accounting I (5)
or ACCT 1AH	Financial Accounting I - HONORS (5)
ACCT 1B	Financial Accounting II (5)
or ACCT 1BH	Financial Accounting II - HONORS (5)

Option 2:

ACCT 1C	Managerial Accounting (5)
or ACCT 1CH	Managerial Accounting - HONORS (5)

Option 3:

MATH 1B	Calculus (5)
or MATH 1BH	Calculus - HONORS (5)
MATH 1C	Calculus (5)
or MATH 1CH	Calculus - HONORS (5)

Option 4:

MATH 11	Finite Mathematics (5)

Complete 4-10 units: 4-10

ECON 3	Environmental Economics (4)
ECON 4	Economics of Public Issues (4)
ECON 5	Behavioral Economics (4)
MATH 1C*	Calculus (5)
or MATH 1CH	Calculus - HONORS (5)
MATH 1D*	Calculus (5)
or MATH 1DH	Calculus - HONORS (5)
MATH 2B	Linear Algebra (5)

**Students taking MATH 1C must take MATH 1D to meet this requirement.*

Major	*Economics for Transfer*	*27-43*
Transfer GE	*CSU GE or IGETC for CSU pattern (47-61 units)*	
Electives	*CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90*	
	Total Units Required 90	

ENGLISH

English

A.A. Degree

The English major at De Anza College offers students the opportunity to study language, literature, creative writing and composition and to deepen critical thinking, communication skills and aesthetic awareness. The English major also prepares students for further study leading to employment and internships in fields such as education, business, law, editing and writing. The program further prepares students to become effective communicators and broadly literate members of the community.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate awareness of diverse social, critical, historical and cultural perspectives by reading and responding to a range of literary texts.
- analyze texts representing a wide range of genres including poetry, drama, fiction and film.
- identify and make relevant connections between texts of various historical periods.
- write well-developed and effectively organized essays including in-class essays, interpretive arguments, and essays incorporating research.
- synthesize historical, formal and critical ideas in interpreting a text.

Prerequisite: **5**

EWRT 1A Composition and Reading (5)
or EWRT 1AH Composition and Reading - HONORS (5)

1. Meet the A.A./A.S. degree requirements.
2. Complete the following.

Complete one (1) course: **5**

EWRT 1B Reading, Writing and Research (5)
or EWRT 1BH Reading, Writing and Research - HONORS (5)
EWRT 2 Critical Reading, Writing and Thinking (5)
or EWRT 2H Critical Reading, Writing and Thinking - HONORS (5)

Complete three (3) courses: **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 47A World Literature: Antiquity to the 1500s (4)
ELIT 47B World Literature: Africa and Latin America (4)
ELIT 48A Major American Writers (Colonial to Romantic, 1620-1865) (4)
ELIT 48B Major American Writers (The Advent of Realism, 1865-1914) (4)
ELIT 48C Major American Writers (The Modern Age, 1914-the Present) (4)

Complete one (1) course: **4-5**

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)
ELIT 19 Introduction to the Bible as Literature (4)
EWRT 1C Literature and Composition (5)

Complete one (1) course: **4**

ELIT 21 Women in Literature (4)
also listed as WMST 21
ELIT 24 Asian Pacific American Literature (4)
also listed as ICS 24
ELIT 40 African American Literature (4)
ELIT 41 Ethnic Literature of the United States (4)

Complete one (1) course (not already taken): **4-5**

ELIT 8 Children's Literature (4)
ELIT 19 Introduction to the Bible as Literature (4)
ELIT 21 Women in Literature (4)
also listed as WMST 21
ELIT 22 Mythology and Folklore (4)
ELIT 24 Asian Pacific American Literature (4)
also listed as ICS 24
ELIT 39 Contemporary Literature (4)
ELIT 40 African American Literature (4)
ELIT 41 Ethnic Literature of the United States (4)
ELIT 44 International Literature (Fiction) (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 47A World Literature: Antiquity to the 1500s (4)
ELIT 47B World Literature: Africa and Latin America (4)
ELIT 48A Major American Writers (Colonial to Romantic, 1620-1865) (4)
ELIT 48B Major American Writers (The Advent of Realism, 1865-1914) (4)
ELIT 48C Major American Writers (The Modern Age, 1914-the Present) (4)
EWRT 30 Introduction to Creative Writing (5)
EWRT 40 Fiction Writing (5)
EWRT 41 Poetry Writing (5)
LING 1 Introduction to Linguistics (4)

Major *English* *29-31*
GE *General Education (32-43 units)*
Electives *Elective courses required when major units plus GE units total is less than 90*
Total Units Required 90

Associate in Arts in English for Transfer

A.A.-T. Degree

The English major consists of courses appropriate for an Associate in Arts in English for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline, and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). The Associate in Arts in English for Transfer is intended for students who plan to complete a bachelor's degree in English at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 (semester) units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate awareness of diverse social, critical, historical and cultural perspectives by reading and responding to a range of literary texts.

- analyze texts representing a wide range of genres including poetry, drama, fiction and film.
- identify and make relevant connections between texts of various historical periods.
- write well developed and effectively organized essays including in-class essays, interpretive arguments, and essays incorporating research.
- synthesize historical, formal, and critical ideas in interpreting a text.

1. Meet the A.A.-T./A.S.-T. degree requirements for transfer.
2. Complete the following.

Complete one (1) option:		**5-10**
Option 1:		
EWRT 1C	Literature and Composition	5
EWRT 2	Critical Reading, Writing and Thinking	5
or EWRT 2H	Critical Reading, Writing and Thinking - HONORS	5
Option 2:		
EWRT 1B	Reading, Writing and Research	5
or EWRT 1BH	Reading, Writing and Research - HONORS	5
Complete one (1) course if option 1 is selected above or two (2) courses if option 2 is selected above:		**4-10**
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)	
EWRT 30	Introduction to Creative Writing (5)	
EWRT 40	Fiction Writing (5)	
EWRT 41	Poetry Writing (5)	
Complete two (2) options:		**12-16**
Option 1:		
ELIT 46A	Major British Writers (Medieval and Renaissance) (4)	
ELIT 46B	Major British Writers (Neo-Classical and Romantic) (4)	
Option 2:		
ELIT 46B	Major British Writers (Neo-Classical and Romantic) (4)	
ELIT 46C	Major British Writers (Victorian and Modern) (4)	
Option 3:		
ELIT 48A	Major American Writers (Colonial to Romantic, 1620-1865) (4)	
ELIT 48B	Major American Writers (The Advent of Realism, 1865-1914) (4)	
Option 4:		
ELIT 48B	Major American Writers (The Advent of Realism, 1865-1914) (4)	
ELIT 48C	Major American Writers (The Modern Age, 1914-the Present) (4)	
Complete one (1) course:		**4**
ANTH 6	Linguistic Anthropology (4)	
ELIT 8	Children's Literature (4)	
ELIT 19	Introduction to the Bible as Literature (4)	
ELIT 21	Women in Literature (4) *also listed as WMST 21*	
ELIT 22	Mythology and Folklore (4)	
ELIT 24	Asian Pacific American Literature (4) *also listed as ICS 24*	
ELIT 39	Contemporary Literature (4)	
ELIT 40	African American Literature (4)	
ELIT 41	Ethnic Literature of the United States (4)	
Major	*English for Transfer*	*29-35*
Transfer GE	*CSU GE or IGETC for CSU pattern (47-61 units)*	
Electives	*CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90*	
	Total Units Required 90	

ENVIRONMENTAL STUDIES

Energy Management and Building Science

Certificate of Achievement

The Certificate of Achievement - Energy Management and Building Science will prepare students for new and emerging career opportunities in energy management technology, building energy audit, facilities management, building design and sustainability, and renewable energy systems. Completion of the Certificate of Achievement provides an introduction to energy efficiency techniques and principles and prepares students for careers in managing and monitoring energy efficient buildings. The certificate curriculum is aligned with professional certifications offered by the International Facilities Management Association (IFMA), including Facilities Management Professional (FMP) and Sustainable Facilities Professional (SFP). Students will also be well prepared for the certification test for Renewable (Solar) Energy Professional offered by the North American Board of Certified Energy Practitioners (NABCEP).

Student Learning Outcomes - upon completion, students will be able to:

- investigate and analyze energy use and its relationship to non-renewable energy extraction, production, distribution, consumption and greenhouse gas emissions.
- apply an understanding of energy management and building science principles, techniques and strategies, the laws of thermodynamics, and the sustainable use of resources supporting the built environment.

1. Meet the requirements for this certificate level.
2. Complete the following.

E S 58	Introduction to Green Building	1
E S 69	Energy Management Within Your Organization	1
E S 70	Introduction to Energy, Management, and Technology	1
E S 70B	Advanced Energy Management Technology	2
E S 71	The Building Envelope	1
E S 72	Heating, Ventilating and Air Conditioning (HVAC) Systems	1
E S 72B	Advanced Heating, Ventilating and Air Conditioning (HVAC) Systems	2

E S 74	Lighting Distribution Systems	1
E S 75	Electric Power Systems	1
E S 75B	Advanced Electric Power Systems	2
E S 78	Energy Management Systems and Controls	1
E S 81	Leadership in Energy and Environmental Design/Sustainability Codes	2
E S 82	Project Management and Technical Report Writing for Energy Professionals	2
E S 95B	Environmental Studies Internship	2
	Total Units Required	**20**

Energy Management and Building Science

Certificate of Achievement-Advanced

The Certificate of Achievement-Advanced Energy Management and Building Science will prepare students for new and emerging career opportunities in energy management technology, building energy audit, facilities management, building design and sustainability, and renewable energy systems. Completion of the Certificate of Achievement-Advanced provides an intermediate level of analysis in energy efficiency principles and prepares students for careers in managing and monitoring energy efficient buildings. The certificate curriculum is aligned with professional certifications offered by the International Facilities Management Association (IFMA), including Facilities Management Professional (FMP) and Sustainable Facilities Professional (SFP). Students will also be well prepared for the certification test for Renewable (Solar) Energy Professional offered by the North American Board of Certified Energy Practitioners (NABCEP).

Student Learning Outcomes - upon completion, students will be able to:

- investigate and analyze energy use and its relationship to non-renewable energy extraction, production, distribution, consumption and greenhouse gas emissions.
- apply an understanding of energy management and building science principles, techniques and strategies, the laws of thermodynamics, and the sustainable use of resources supporting the built environment.
- demonstrate knowledge of the above objectives and strategically conceptualize and implement efficient and sustainable energy management policies, procedures and systems in residential and commercial buildings.

1. Complete the Certificate of Achievement requirements. 20
2. Meet the requirements for this certificate level.
3. Complete the following.

E S 64	AB 32 (CA Global Warming Solutions Act of 2006)	1
E S 71B	Advanced Building Envelope	2
E S 74B	Advanced Lighting Distribution Systems	2
E S 76	Energy Star Products	1
E S 76A	Solar Thermal Systems	1
E S 78B	Advanced Energy Management Systems and Controls	2
E S 79	Renewable and Alternative Energy Systems	1
E S 83	Energy Management Return on Investment	2
E S 84	Residential Solar Design and Installation	1
	Total Units Required	**33**

Energy Management and Building Science

A.S. Degree

The A.S. degree - Energy Management and Building Science will prepare students for new and emerging career opportunities in energy management technology, building energy audit, facilities management, building design and sustainability, and renewable energy systems. Completion of the degree program provides students with a skilled knowledge of energy efficiency principles and prepares them for careers in managing and monitoring energy efficient buildings. The program curriculum is aligned with professional certifications offered by the International Facilities Management Association (IFMA), including Facilities Management Professional (FMP) and Sustainable Facilities Professional (SFP). Students will also be well prepared for the certification test for Renewable (Solar) Energy Professional offered by the North American Board of Certified Energy Practitioners (NABCEP).

Student Learning Outcomes - upon completion, students will be able to:

- investigate and analyze energy use and its relationship to non-renewable energy extraction, production, distribution, consumption and greenhouse gas emissions.
- apply an understanding of energy management and building science principles, techniques and strategies, the laws of thermodynamics, and the sustainable use of resources supporting the built environment.
- demonstrate knowledge of the above objectives and strategically conceptualize and implement efficient and sustainable energy management policies, procedures and systems in residential and commercial buildings.
- engage with key stakeholders in energy management and building science occupations including the public, government agencies, public industry, manufacturing and non profits to enhance, improve and advocate for global, cultural, social and environmental health and well being.

1. Complete the Certificate of Achievement and the Certificate of Achievement-Advanced requirements. 33
2. Meet the A.A./A.S. degree requirements.
3. Complete the following.

Complete 17 units: 17

E S 1	Introduction to Environmental Studies (4)
E S 61A	Environmental Resource Management and Pollution Prevention: Air, Water and Land (3)
E S 62B	Environmental Management Tools: CEQA and Environmental Impact Report (EIRs) (3)
E S 62D	Environmental Management Tools: Industrial Ecology and Sustainable Design Principles (3)
E S 66	Environmental Leadership (1)
E S 69A	Introduction to Facilities Management (3)
E S 95	Introduction to Environmental Careers (1)
E S 95A	Environmental Studies Internship (1)
E S 95C	Environmental Studies Internship (3)
E S 95D	Environmental Studies Internship (4)
ESCI 1	Environmental Science (4)
ESCI 61	Introduction to Photovoltaic (PV) Technology (3)
MATH 114	College Math Preparation Level 3: Intermediate Algebra (5)

MET 10	Weather and Climate Processes (5)	
PHYS 10	Concepts of Physics (5)	
Major	*Energy Management and Building Science*	*50*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

Environmental Resource Management and Pollution Prevention

Certificate of Achievement

In this career-oriented program, students are trained in the interrelated fields of environmental resource management (sustainable multiple-use management of our fundamental environmental resources – air, water, land, food and extracted materials) and pollution prevention. The training received is multidisciplinary, covering the areas of law/regulation, public health, economics and science and technology, and includes coursework covering a variety of practical management tools that employers look for. Upon completion, students are prepared for employment as entry-level environmental management/pollution prevention specialists in a wide range of positions and settings, including working for business/industry, government, and nonprofit organizations. This certificate is the first step in a career ladder whereby students can optionally choose to later complete a Certificate of Achievement-Advanced and finally an A.A. degree.

Student Learning Outcomes - upon completion, students will be able to:

- identify fundamental environmental management/pollution prevention issues and apply sustainable solutions.

1. Meet the requirements for this certificate level.
2. Complete the following.

E S 6	Introduction to Environmental Law	4
E S 50	Introduction to Environmental Resource Management and Pollution Prevention	2
E S 61A	Environmental Resource Management and Pollution Prevention: Air, Water and Land	3
E S 61B	Environmental Resource Management and Pollution Prevention: Energy, Chemicals and Waste	3
Complete two (2) courses:		**6**
E S 62A	Environmental Management Tools: Environmental Management Systems (EMS) and Environmental Performance Metrics (3)	
E S 62B	Environmental Management Tools: CEQA and Environmental Impact Reports (EIRs) (3)	
E S 62C	Environmental Management Tools: Environmental Site Assessments (ESAs) (3)	
E S 62D	Environmental Management Tools: Industrial Ecology and Sustainable Design Principles (3)	
	Total Units Required 18	

Environmental Resource Management and Pollution Prevention

Certificate of Achievement-Advanced

In this career-oriented program, students are trained in the interrelated fields of environmental resource management (sustainable multiple-use management of our fundamental environmental resources – air, water, land, food and extracted materials) and pollution prevention. The training received is multidisciplinary, covering the areas of law/regulation, public health, economics and science and technology, and includes coursework covering a variety of practical management tools that employers look for. Upon completion, students are prepared for employment as environmental management/pollution prevention specialists in a wide range of positions and settings, including working for business/industry, government, and nonprofit organizations. This certificate is the middle step in a career ladder with the first step being a Certificate of Achievement and the last (optional) step being an A.A. degree.

Student Learning Outcomes - upon completion, students will be able to:

- identify both fundamental and advanced environmental management/pollution prevention issues and apply sustainable solutions.

1. Complete the Certificate of Achievement requirements. 18
2. Meet the requirements for this certificate level.
3. Complete the following.

E S 56	Introduction to Environmental Health	4
E S 64	AB 32 (CA Global Warming Solutions Act of 2006)	1
Complete two (2) courses not previously completed for the Certificate of Achievement:		**6**
E S 62A	Environmental Management Tools: Environmental Management Systems (EMS) and Environmental Performance Metrics (3)	
E S 62B	Environmental Management Tools: CEQA and Environmental Impact Reports (EIRs) (3)	
E S 62C	Environmental Management Tools: Environmental Site Assessments (ESAs) (3)	
E S 62D	Environmental Management Tools: Industrial Ecology and Sustainable Design Principles (3)	
	Total Units Required 29	

Environmental Resource Management and Pollution Prevention

A.A. Degree

In this career-oriented program, students are trained in the interrelated fields of environmental resource management (sustainable multiple-use management of our fundamental environmental resources – air, water, land, food and extracted materials) and pollution prevention. The training received is multidisciplinary, covering the areas of law/regulation, public health, economics and science and technology, and includes coursework covering a variety of practical management tools that employers look for. Upon completion, students are prepared for either employment as environmental management/pollution prevention specialists (in a wide range of positions and settings, including working for business/industry, government, and non profit organizations) or for transfer to

four-year degree programs in Environmental Studies or related majors. This degree is the last step in a career ladder with the first step being a Certificate of Achievement and the second being a Certificate of Achievement-Advanced.

Student Learning Outcomes - upon completion, students will be able to:

- identify both fundamental and advanced environmental management/pollution prevention issues and apply sustainable solutions.
- understand and appreciate the broader context of their work in terms of achieving a sustainable society.

1. Complete the Certificate of Achievement and the Certificate of Achievement-Advanced requirements. 29
2. Meet the A.A./A.S. degree requirements.
3. Complete the following.

E S 1	Introduction to Environmental Studies	4
E S 2	Humans, the Environment, and Sustainability	4
E S 95	Introduction to Environmental Careers	1
ESCI 1	Environmental Science	4
ESCI 1L	Environmental Science Laboratory	1
Complete nine (9) units:		**9**
E S 58	Introduction to Green Building (1)	
E S 63	Agenda 21: Blueprint for Sustainability (1)	
E S 65	Environmental Stewardship (1)	
E S 66	Environmental Leadership (1)	
E S 67	Environmental Team-Building (1)	
E S 68	Community-Based Coalitions and Stakeholders (1)	
E S 70	Introduction to Energy, Management, and Technology (1)	
E S 76	Energy Star Products (1)	
E S 76A	Solar Thermal Systems (1)	
E S 79	Renewable and Alternative Energy Systems (1)	
ESCI 61	Introduction to Photovoltaic (PV) Technology (3)	
ESCI 63	Photovoltaic (PV) Technology Field Project (2)	
Major	*Environmental Resource Management and Pollution Prevention*	*52*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required	**90**

Facility and Sustainable Building Management

NEW

Certificate of Achievement
Certificate of Achievement-Advanced
A.S. Degree

The interdisciplinary Facility and Sustainable Building Management certificates and degree align with the requirements set by the facility management industry for qualified facility management professionals. Students will be educated and provided actual on-the-job work experience. Students will understand the cross functional aspects of a successful facility manager and will be further educated on the roles facility managers play, the basics of building operations and maintenance, building sustainability, and work management within the facility manager job function. International Facility Management Association (IFMA) estimates the average age of practicing facility managers is more than 49 years old. IFMA also forecasts that 30 to 50 percent of practicing facility managers will retire within the next 10 years. This indicates a pending employment gap and a need for younger, well-educated and qualified facility management professionals. IFMA has turned to California community colleges to help fill this gap. The Facility and Sustainable Building Management certificates and degrees will prepare students for careers in building sustainability, space planning, environmental health and safety, energy efficiency, sustainable landscaping, real estate, property management, human resources and other business-related job functions such as marketing, sales and accounting.

Certificate of Achievement

Student Learning Outcomes - upon completion, students will be able to:

- assess the roles and responsibilities of Facility Managers and understand the technical and business skills required in the Facility Management profession.

1. Meet the requirements for this certificate level.
2. Complete the following.

BUS 56	Human Relations in the Workplace	5
BUS 85	Business Communication	3
E S 58	Introduction to Green Building	1
E S 69A	Introduction to Facilities Management	3
E S 70	Introduction to Energy, Management, and Technology	1
E S 71	The Building Envelope	1
E S 78	Energy Management Systems and Controls	1
E S 82	Project Management and Technical Report Writing for Energy Professionals	2
REST 50	Real Estate Principles	4
	Total Units Required	**21**

Certificate of Achievement-Advanced

Student Learning Outcomes - upon completion, students will be able to:

- assess the roles and responsibilities of Facility Managers and understand the technical and business skills required in the Facility Management profession.
- analyze and understand the basics of building management and energy efficiency systems.

1. Complete the Certificate of Achievement requirements. 21
2. Meet the requirements for this certificate level.
3. Complete the following.

ACCT 105	Basic Financial Accounting Procedures	1
BUS 10	Introduction to Business	5
BUS 96	Principles of Management	5
E S 71B	Advanced Building Envelope	2
E S 81	Leadership in Energy and Environmental Design/Sustainability Codes	2
	Total Units Required	**36**

A.S. Degree

Student Learning Outcomes - upon completion, students will be able to:

- assess the roles and responsibilities of Facility Managers and understand the technical and business skills required in the Facility Management profession.
- analyze and understand the basics of building automation and sustainable building systems.
- understand the cross-functional nature of the successful facility manager and be able to identify internal and external stakeholders.
- demonstrate the ability to track internal and external customer relationships in facility management.

1. Complete the Certificate of Achievement and the Certificate of Achievement-Advanced requirements. 36
2. Meet the A.A./A.S. degree requirements.
3. Complete the following.

Complete 14 units:		**14**
ACCT 1A	Financial Accounting I (5)	
or ACCT 1AH	Financial Accounting I - HONORS (5)	
ACCT 88	Excel Spreadsheets for Accounting (2)	
BUS 65	Leadership (5)	
CIS 3	Business Information Systems (4.5)	
CIS 79	Managing Technology Projects (4.5)	
E S 62A	Environmental Management Tools: Environmental Management Systems (EMS) and Environmental Performance Metrics (3)	
E S 64	AB 32 (CA Warming Solutions Act of 2006) (1)	
E S 69	Energy Management Within Your Organization (1)	
E S 70B	Advanced Energy Management Technology (2)	
E S 78B	Advanced Energy Management Systems and Controls (2)	
REST 53	Real Estate Finance (4)	
Major	*Facility and Sustainable Building Management*	*50*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required	**90**

Wildlife Science Technician

Certificate of Achievement

This program provides technician-level career training in wildlife science technology including the scientific principles of environmental science, biodiversity and ecology, corridor ecology, landscape ecology and ecosystem (adaptive) management. Training includes Level 1 introductory wildlife science and monitoring, field-based practices and scientific protocols. The WS technician will apply these principles and theory of wildlife science to assist in the preservation, protection and restoration of native species and ecosystems.

Student Learning Outcomes - upon completion, students will be able to:

- investigate the practice, field protocols and technology of wildlife science.
- utilize environmental science and the concepts and principles of wildlife science including biodiversity, ecology, corridor and landscape ecology and ecosystem (adaptive) management as branches of the sciences and apply in a field setting utilizing the Rapid Assessment Methodology developed at De Anza College in partnership with resource agencies and others.

1. Meet the requirements for this certificate level.
2. Complete the following.

E S 65	Environmental Stewardship	1
ESCI 1	Environmental Science	4
ESCI 1L	Environmental Science Laboratory	1
ESCI 20	Introduction to Biodiversity	5
ESCI 21	Biodiversity 2	5
ESCI 30	Conservation Biology	5
ESCI 50	Introduction to Wildlife Science Technology	4
ESCI 82	Central Coast Wildlife Corridors: Coyote Valley	1
	Total Units Required	**26**

Wildlife Science Technician

Certificate of Achievement-Advanced

This program provides technician-level career training in wildlife science technology including the scientific principles of environmental science, biodiversity and ecology, corridor ecology, landscape ecology and ecosystem (adaptive) management. Training includes Level 2 wildlife science and monitoring, field-based practices and scientific protocols. The WS technician will apply these principles and theory of wildlife science to assist in the preservation, protection and restoration of native species and ecosystems.

Student Learning Outcomes - upon completion, students will be able to:

- investigate the practice, field protocols and technology of wildlife science.
- utilize environmental science and the concepts and principles of wildlife science including biodiversity, ecology, corridor and landscape ecology and ecosystem (adaptive) management as branches of the sciences and apply in a field setting utilizing the Rapid Assessment Methodology developed at De Anza College in partnership with resource agencies and others.
- examine the local wildlife and core corridor/landscape areas utilized by wildlife species encountered in the field (Central Coast Region of California); Examine the data analysis equipment and processes used in wildlife sciences.
- apply the wildlife sciences concepts, techniques and protocols (including the Rapid Assessment Methodology) to local case studies to develop strategies for implementing community-based, collaborate efforts to preserve, protect and restore native species, ecosystems and landscape connectivity.

1. Complete the Certificate of Achievement requirements. 26
2. Meet the requirements for this certificate level.
3. Complete the following.

E S 6	Introduction to Environmental Law	4
E S 66	Environmental Leadership	1
E S 67	Environmental Team-Building	1
ESCI 54	Wildlife Science Technician: Data Analysis	3

ESCI 55	Wildlife Science Technology: Corridor Design	3
ESCI 57	Wildlife Corridor Technician: Wildlife Tracking	2

Complete a minimum of two (2) units: 2

ESCI 82 series	ESCI 82X, 82Y, 82Z Central Coast Wildlife Corridors: Coyote Valley (2-4)	
ESCI 87 series	ESCI 87, 87X, 87Y, 87Z Central Coast Wildlife Corridors: Diablo Range (1-4)	

Complete a minimum of five (5) units: 5

CHEM 1A	General Chemistry (5)	
CHEM 10	Introductory Chemistry (5)	
CHEM 25	Preparation Course for General Chemistry (5)	
CHEM 30A	Introduction to General, Organic and Biochemistry I (5)	
GEO 1	Physical Geography (4)	
MET 10	Weather and Climate Processes (5)	
MET 10L	Meteorology Laboratory (1)	
PHYS 50	Preparatory Physics (4)	
	Total Units Required 47	

Wildlife Science Technician

A.A. Degree

This program provides technician-level career training in wildlife science technology including the scientific principles of environmental science, biodiversity and ecology, corridor ecology, landscape ecology and ecosystem (adaptive) management. Training includes Level 1, 2 and 3 wildlife science and monitoring, field-based practices and scientific protocols. The WS technician will apply these principles and theory of wildlife science to assist in the preservation, protection and restoration of native species and ecosystems and participate in the development of a regional habitat conservation plan (local) and/or natural community and conservation plan (state).

Student Learning Outcomes - upon completion, students will be able to:

- investigate the practice, field protocols and technology of wildlife science.
- utilize environmental science and the concepts and principles of wildlife science including biodiversity, ecology, corridor and landscape ecology and ecosystem (adaptive) management as branches of the sciences and apply in a field setting utilizing the Rapid Assessment Methodology developed at De Anza College in partnership with resource agencies and others.
- examine the local wildlife and core corridor/landscape areas utilized by wildlife species encountered in the field (Central Coast Region of California); Examine the data analysis equipment and processes used in wildlife sciences.
- apply the wildlife sciences concepts, techniques and protocols (including the Rapid Assessment Methodology) to local case studies to develop strategies for implementing community-based, collaborate efforts to preserve, protect and restore native species, ecosystems and landscape connectivity.
- demonstrate the ability to communicate with key stakeholders the relationship between wildlife protection and preservation, landscape connectivity and the public good with government and resource agencies, agriculture and industry, the public, nonprofits and others to enhance global, cultural, social and environmental well-being and participate in the development of a regional habitat conservation plan (local) and/or natural community and conservation plan (state).

1. Complete the Certificates of Achievement and the Certificate Achievement-Advanced requirements. 47
2. Meet the A.A./A.S. degree requirements.
3. Complete the following.

ESCI 56	Wildlife Science Technician: Plant Survey Techniques	3
ESCI 58	Wildlife Corridor Technician: Wildlife Tracking and Landscape Linkages for California	2

Complete a minimum of two (2) units not previously completed for the Certificate of Achievement and the Certificate of Achievement-Advanced: 2

E S 80 series	E S 80, 80X, 80Y, 80Z California Field Studies (1-4)	
ESCI 82 series	ESCI 82X, 82Y, 82Z Central Coast Wildlife Corridors: Coyote Valley (2-4)	
ESCI 87 series	ESCI 87, 87X, 87Y, 87Z Central Coast Wildlife Corridors: Diablo Range (1-4)	
ESCI 90	Santa Clara County Field Studies: Tule Elk (1)	
ESCI 92	Santa Clara County Field Studies: Raptors (1)	

Major	*Wildlife Science Technician*	*54*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

FILM/TV

Film/TV: Animation

A.A. Degree

The Film/TV: Animation A.A. degree provides a foundation for students interested in pursuing a career in the film, TV, game or Internet animation industries. Students are exposed to professional pre-production and production animation methods including storyboard design, character design, 2-D hand drawn, 2-D digital animation, 3-D stop-motion and 3-D computer animation. Students select electives that will help build skills for such specific career goals as 2-D and 3-D animators, illustrators, storyboard artists, visual development artists and background artists.

Student Learning Outcomes - upon completion, students will be able to:

- apply basic animation principles to 2-D and 3-D characters and objects.
- apply principles of cinematic design to storyboards and environments.

- apply screenwriting fundamentals and sound design skills for creative storytelling.
- apply interdisciplinary skills to animation pre-production and production.
- identify and examine the history of the development of animation and contemporary practices in animation.

1. Meet the A.A./A.S. degree requirements.
2. Complete the following,

ARTS 4A	Beginning Drawing	4
ARTS 4C	Life Drawing	4
F/TV 1	Introduction to Cinematic Arts	4
or F/TV 1H	Introduction to Cinematic Arts - HONORS	4
F/TV 6A	Screenwriting Fundamentals for Film/Video I	4
F/TV 20	Beginning Video Production	4
F/TV 66A	Basic Techniques of Animation: 3D Media	3
F/TV 68A	Sound for Animation	3
F/TV 69A	Principles of Animation: 2D Media	3
F/TV 70A	The Storyboard and Visual Development for Animation	3
F/TV 71G	Introduction to 3D Computer Animation: Modeling	4
F/TV 71H	Introduction to 3D Computer Animation: Character Motion	4
F/TV 75G	History of Animation (1900-Present)	4

Complete a minimum of four (4) units: 4

ARTS 8	Two-Dimensional Design (4)
ARTS 10A	Three-Dimensional Design (4)
ARTS 12	Design and Color (4)
ARTS 14A	Watercolor Painting I (4)
ARTS 15A	Acrylic Painting I (4)
ARTS 37A	Sculpture (4)
ARTS 53	Introduction to Visual Technology (4)
ARTS 54	Visual Technology II (4)
CIS 14A	Visual Basic .NET Programming I (4.5)
CIS 18A	Introduction to Unix/Linux (4.5)
F/TV 2A	History of Cinema (1895-1950) (4)
F/TV 2B	History of Cinema (1950-Present) (4)
F/TV 2C	Contemporary World Cinema (4)
F/TV 10	Introduction to Electronic Media (4)
F/TV 29	Lighting for Film and Television (4)
F/TV 31	Audio Post Production (3)
F/TV 56A	Introduction to Visual Effects and Color Grading (4)
F/TV 72G	Animated Film Pre-Production Workshop (4)
F/TV 72H	Animated Film Production Workshop (4)
F/TV 72J	Animated Film Post-Production Workshop (4)
F/TV 75K	Japanese Animation (4)
PHTG 4	Introduction to Digital Photography (3)
PHTG 57A	Commercial Lighting I (3)
PHTG 58A	Photographic Photoshop I (3)
THEA 80A	Theory and Technique of Acting for the Camera (4)

Major	*Film/TV: Animation*	*48*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

Film/TV: Production

Certificate of Achievement

The Film/TV: Production Certificate of Achievement provides a solid introduction to production for students interested in pursuing a career in the film or television industry or a baccalaureate degree in Film, Television, and Electronic Media. Students are exposed to various facets of professional film and/or television production, including producing, screenwriting, directing, cinematography, editing and sound design.

Student Learning Outcomes – upon completion, students will be able to:

- develop pre-production skills including screenwriting, location scouting, scheduling and budgeting.
- utilize narrative techniques and visual storytelling to communicate a message.
- operate a film/video camera, sound, and lighting equipment on a remote or studio shoot.
- use and apply principles of editing and post-production techniques.
- understand film and television's greater role in the current global media context.

1. Meet the requirements for this certificate level.
2. Complete the following.

F/TV 1	Introduction to Cinematic Arts	4
or F/TV 1H	Introduction to Cinematic Arts - HONORS	4
F/TV 6A	Screenwriting Fundamentals for Film/Video I	4
F/TV 10	Introduction to Electronic Media	4
F/TV 20	Beginning Video Production	4
F/TV 27	Nonlinear Editing	4

Complete one (1) course: 4

F/TV 22	Beginning 16mm Motion Picture Production (4)
F/TV 23	Beginning TV Studio Production (4)
F/TV 39	Intermediate Digital Film and Video Production (4)
	Total Units Required 24

Film/TV: Production

Certificate of Achievement–Advanced
A.A. Degree

The Film/TV: Production Certificate of Achievement-Advanced and A.A. degree provides a more highly developed introduction to production for students interested in pursuing a career in the film or television industry or a baccalaureate degree in Film, Television, and Electronic Media. Students are exposed to various facets of professional film and/or television production, including producing, screenwriting, directing, cinematography, editing and sound design.

Student Learning Outcomes – upon completion, students will be able to:

- develop pre-production skills including screenwriting, location scouting, scheduling and budgeting.
- apply dramatic skills to cast, evaluate and direct talent.
- utilize narrative techniques and visual storytelling to communicate.
- operate a film camera, sound and lighting equipment in a remote or studio shoot.

- use and apply principles of editing and post-production techniques.
- develop a distribution plan for a film or video.
- understand film and television's greater role in the current global media context.

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level.
2. Complete the following.

F/TV 1	Introduction to Cinematic Arts	4
or F/TV 1H	Introduction to Cinematic Arts - HONORS	4
F/TV 6A	Screenwriting Fundamentals for Film/Video I	4
F/TV 10	Introduction to Electronic Media	4
F/TV 20	Beginning Video Production	4
F/TV 22	Beginning 16mm Motion Picture Production	4
F/TV 26	Introduction to Film/Television Directing	4
F/TV 27	Nonlinear Editing	4

Complete one (1) course: 4-4.5

F/TV 2A	History of Cinema (1895-1950) (4)
F/TV 2AW	History of Cinema (1895-1950) (4.5)
F/TV 2B	History of Cinema (1950-Present) (4)
F/TV 2BW	History of Cinema (1950-Present) (4.5)
F/TV 2C	Contemporary World Cinema (4)
F/TV 2CW	Contemporary World Cinema (4.5)

Complete one (1) course: 4

F/TV 23	Beginning TV Studio Production (4)
F/TV 39	Intermediate Digital Film and Video Production (4)
F/TV 44A	16mm/35mm Film Production I (4)

Complete a minimum of eight (8) units below or from above (not already taken): 8

F/TV 29	Lighting for Film and Television (4)
F/TV 30	Location Recording and Sound Design (3)
F/TV 31	Audio Post Production (3)
F/TV 41	Film Genres (4)
F/TV 42	National Cinemas (4)
F/TV 43	Film Artists (4)
F/TV 44B	16mm/35mm Film Production II (4)
F/TV 45	History of Experimental Film/Video (4)
F/TV 56A	Introduction to Visual Effects and Color Grading (4)
F/TV 57A	Nonfiction Workshop I: The Documentary (4)
F/TV 57B	Nonfiction Workshop II: The Documentary (4)
F/TV 58 series	F/TV 58S, 58T, 58U, 58V Film/Television Production Workshop (1-4)
F/TV 59	Role of the Media Producer (4)
F/TV 60B	Screenwriting Fundamentals for Film/Video II (4)
F/TV 60C	Screenwriting Fundamentals for Film/Video III (4)
F/TV 64A	Advanced Screenwriting Workshop I (4)
F/TV 64B	Advanced Screenwriting Workshop II (4)
F/TV 64C	Advanced Screenwriting Workshop III (4)
F/TV 65	Current Practices in the Film/Video Profession (4)
F/TV 78 series	F/TV 78W, 78X Special Topics in Film Studies (1-2)
F/TV 92	Special Topics: Industry Professionals and Practices (1)
F/TV 98G	Fiction Workshop (The Writer, Producer, Director) (3)
F/TV 98H	Fiction Workshop (The Technical Crew) (3)
F/TV 98J	Fiction Workshop (Editing/Post Production) (3)
THEA 80A	Theory and Technique of Acting for the Camera (4)
THEA 80B	Theory and Technique of Advanced Acting for the Camera (4)
	Total Units Required 44-44.5

A.A. Degree

Major	*Complete the Cert. of Achievement-Advanced requirements*	*44-44.5*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

Film/TV: Screenwriting

A.A. Degree

The Film/TV: Screenwriting A.A. degree provides a foundation for students interested in pursuing a career in screenwriting for film or pursuing a baccalaureate degree in Film/Television. Students are exposed to the craft and business of screenwriting. In order to fulfill the major requirements, students take each course in the screenwriting series, courses in cinema studies and media theory, and basic production courses.

Student Learning Outcomes - upon completion, students will be able to:

- apply the principles of cinematic story, character, and theme to screenwriting.
- write both short and feature-length screenplays with good technique and craft.
- execute the step-by-step process of screenwriting from concept and idea to completed screenplay.
- apply all aspects of story and character to oral pitches.
- understand the business of screenwriting and how to best position themselves for success.

1. Meet the A.A./A.S. degree requirements.
2. Complete the following.

F/TV 1	Introduction to Cinematic Arts	4
or F/TV 1H	Introduction to Cinematic Arts - HONORS	4
F/TV 2A	History of Cinema (1895-1950)	4
F/TV 2B	History of Cinema (1950-Present)	4
F/TV 6A	Screenwriting Fundamentals for Film/Video I	4
F/TV 10	Introduction to Electronic Media	4
F/TV 20	Beginning Video Production	4
F/TV 60B	Screenwriting Fundamentals for Film/Video II	4
F/TV 60C	Screenwriting Fundamentals for Film/Video III	4
F/TV 64A	Advanced Screenwriting Workshop I	4
F/TV 64B	Advanced Screenwriting Workshop II	4
F/TV 64C	Advanced Screenwriting Workshop III	4

Complete a minimum of four (4) units:		**4**
F/TV 2C	Contemporary World Cinema (4)	
F/TV 2CW	Contemporary World Cinema (4.5)	
F/TV 22	Beginning 16mm Motion Picture Production (4)	
F/TV 23	Beginning TV Studio Production (4)	
F/TV 26	Introduction to Film/Television Directing (4)	
F/TV 29	Lighting for Film and Television (4)	
F/TV 30	Location Recording and Sound Design (3)	
F/TV 31	Audio Post Production (3)	
F/TV 39	Intermediate Digital Film and Video Production (4)	
F/TV 41	Film Genres (4)	
F/TV 42	National Cinemas (4)	
F/TV 43	Film Artists (4)	
F/TV 44A	16mm/35mm Film Production I (4)	
F/TV 44B	16mm/35mm Film Production II (4)	
F/TV 45	History of Experimental Film/Video (4)	
F/TV 56A	Introduction to Visual Effects and Color Grading (4)	
F/TV 57A	Nonfiction Workshop I: The Documentary (4)	
F/TV 57B	Nonfiction Workshop II: The Documentary (4)	
F/TV 59	Role of the Media Producer (4)	
F/TV 65	Current Practices in the Film/Video Profession (4)	
F/TV 78 series	F/TV 78W, 78X Special Topics in Film Studies (1-2)	
F/TV 92	Special Topics: Industry Professionals and Practices (1)	
F/TV 98G	Fiction Workshop (The Writer, Producer, Director) (3)	
F/TV 98H	Fiction Workshop (The Technical Crew) (3)	
F/TV 98J	Fiction Workshop (Editing/Post Production) (3)	
HUMI 1	Creative Minds (4)	
or HUMI 1H	Creative Minds - HONORS (4)	
HUMI 2	But Is It Art? Questions and Criticism (4)	
HUMI 15	Discussion on the Arts (4)	
Major	*Film/TV: Screenwriting*	*48*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required	**90**

GLOBAL STUDIES

Global Studies

Skills Certificate

Skills Certificates are issued by the individual departments and are not notated on official college transcripts. Please contact the department directly for assistance and to apply for Skills Certificates.

The Global Studies Skills Certificate is designed to enable students to meet the demands of living and working in a global society. This certificate provides an interdisciplinary approach to understanding the interdependence and interconnectedness of people from around the globe. By taking a variety of courses with a common, global focus, students gain the analytical skills to discuss political, economic and cultural elements of our global society from several perspectives. Students also gain the knowledge and skills necessary to work more effectively with people from a variety of backgrounds and cultures.

Student Learning Outcomes - upon completion, students will be able to:

- integrate information about the environment, cultures, histories, politics, arts, and economics of people around the world and explain their interdependence and interconnectedness.
- demonstrate cultural competence through the ability to interact effectively in international and multicultural settings based on an integrated understanding of global issues and perspectives.

1. Meet the requirements for this certificate level.
2. Complete the following.

E S 1	Introduction to Environmental Studies	4
ICS 7	Intercultural Communication *also listed as COMM 7*	4
or ICS 7H	Intercultural Communication - HONORS *also listed as COMM 7H*	4
INTL 5	Global Issues	4
LIB 1	Library Research Skills	1

Complete one (1) course:		**4**
HIST 3A	World History from Prehistory to 750 CE (4)	
or HIST 3AH	World History from Prehistory to 750 CE - HONORS (4)	
HIST 3B	World History from 750 CE to 1750 CE (4)	
or HIST 3BH	World History from 750 CE to 1750 CE - HONORS (4)	
HIST 3C	World History from 1750 CE to the Present (4)	
or HIST 3CH	World History from 1750 CE to the Present - HONORS (4)	

Complete one (1) course:		**4**
ANTH 2	Cultural Anthropology (4)	
or ANTH 2H	Cultural Anthropology - HONORS (4)	
ECON 1	Principles of Macroeconomics (4)	
or ECON 1H	Principles of Macroeconomics - HONORS (4)	
GEO 10	World Regional Geography (4)	
	Total Units Required	**21**

Global Studies

Certificate of Achievement-Advanced

A.A. Degree

The Global Studies Certificate of Achievement-Advanced and A.A. degree is an interdisciplinary program that prepares students to be well-versed in world history, global issues and perspectives, geography, and cultural competence as well as proficient in a foreign language. Elective options direct students to a course of study focused on world history, international business, globalization issues, language and culture, and the arts and humanities in the global environment. Students can take electives within one area of study, or mix electives from the various areas. The program prepares students for careers as citizens of the world and to navigate and communicate in a global environment.

Student Learning Outcomes - upon completion, students will be able to:

- integrate information about the environment, cultures, histories, politics, arts, and economics of people around the world and explain their interdependence and interconnectedness.
- demonstrate cultural competence through the ability to interact effectively in international and multicultural settings based on an integrated understanding of global issues and perspectives.
- demonstrate proficiency in a foreign language.

Certificate of Achievement-Advanced

1. Complete the Skills Certificate requirements. 21
2. Meet the requirements for this certificate level.
3. Complete the following.

One year (3 quarters) of college-level world language 15
World Languages offered:
French, German, Hindi, Italian, Japanese, Korean, Mandarin, Persian, Russian, Spanish, Vietnamese

Total Units Required 36

A.A. Degree

1. Meet the A.A./A.S. degree requirements.
2. Complete the following.

ANTH 2	Cultural Anthropology	4
or ANTH 2H	Cultural Anthropology - HONORS	4
ECON 1	Principles of Macroeconomics	4
or ECON 1H	Principles of Macroeconomics - HONORS	4
E S 1	Introduction to Environmental Studies	4
GEO 10	World Regional Geography	4
ICS 7	Intercultural Communication *also listed as COMM 7*	4
or ICS 7H	Intercultural Communication - HONORS *also listed as COMM 7H*	4
INTL 5	Global Issues	4
LIB 1	Library Research Skills	1

Complete one (1) course: 4

HIST 3A	World History from Prehistory to 750 CE (4)
or HIST 3AH	World History from Prehistory to 750 CE - HONORS (4)
HIST 3B	World History from 750 CE to 1750 CE (4)
or HIST 3BH	World History from 750 CE to 1750 CE - HONORS (4)
HIST 3C	World History from 1750 CE to the Present (4)
or HIST 3CH	World History from 1750 CE to the Present - HONORS (4)

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: 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 the Middle Ages and the 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 from Post-Impressionism to the Present (4)
ARTS 2G	History of Art: Arts of Asia (4) *also listed as INTL 10*
ARTS 2H	History of Art: Native Arts of Mesoamerica and the Andes (4) *also listed as INTL 21*
ARTS 2J	History of Art: Arts of Africa, Oceania and Native North America (4) *also listed as INTL 22*
ARTS 2K	History of Art: Visual Arts of Islam (4) *also listed as INTL 23*
ARTS 2L	History of Art: Visual Arts of Africa (4) *also listed as INTL 24*
ARTS 3TC	Women and Art (4) *also listed as WMST 3C*
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)
or HUMI 9H	Introduction to Comparative Religion - HONORS (4)
HUMI 10	Global Religious Perspectives: Judaism, Christianity and Islam (4)
INTL 11	Vietnamese Literature (from Tradition to Asian American Identity) (4)
INTL 13	Introduction to Korean Popular Culture (4) *also listed as HUMI 13*
MUSI 1C	Introduction to Music: World Music in America (4)
PHIL 14A	Indian Philosophy (4)
PHIL 14B	Chinese Philosophy (4)
PHIL 14C	Japanese Philosophy (4)

Global Environment

E S 6	Introduction to Environmental Law (4)
ESCI 19	Environmental Biology (5)
ESCI 30	Conservation Biology (5)
GEO 1	Physical Geography (4)

Globalization Issues

BUS 21	Business and Society (5)
CIS 2	Computers and the Internet in Society (4)
INTL 33	Introduction to Peace and Conflict Studies (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 the Workplace (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	Principles of Microeconomics (4)
or ECON 2H	Principles of Microeconomics - HONORS (4)
POLI 3	International Relations (4)

World History

ANTH 4	World Prehistory (4)
HIST 3A	World History from Prehistory to 750 CE (4)
or HIST 3AH	World History from Prehistory to 750 CE - HONORS (4)
HIST 3B	World History from 750 CE to 1750 CE (4)
or HIST 3BH	World History from 750 CE to 1750 CE - HONORS (4)
HIST 3C	World History from 1750 CE to the Present (4)
or HIST 3CH	World History from 1750 CE to the Present - HONORS (4)
HIST 6A	History of Western Civilization (4)
or HIST 6AH	History of Western Civilization - HONORS (4)
HIST 6B	History of Western Civilization (4)
or HIST 6BH	History of Western Civilization - HONORS (4)
HIST 6C	History of Western Civilization (4)
or HIST 6CH	History of Western Civilization - HONORS (4)
HIST 7A	Colonial Latin American History (4) *also listed as ICS 38A*
HIST 7B	Modern Latin American History (4) *also listed as ICS 38B*
HIST 16A	History of Africa to 1800 (4) *also listed as ICS 16A*
HIST 16B	History of Africa from 1800 to the Present (4) *also listed as ICS 16B*
HIST 19A	History of Asian Civilization: China and Japan (to the 19th Century) (4) *also listed as INTL 19A*
HIST 19B	History of Asian Civilization: China and Japan (19th - 21st Centuries) (4) *also listed as INTL 19B*
ICS 37	Ancient Peoples of Mesoamerica (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:
French, German, Hindi, Italian, Japanese, Korean, Mandarin, Persian, Russian, Spanish, Vietnamese

Major	*Global Studies*	*53-68*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

GRAPHIC AND INTERACTIVE DESIGN

Graphic Design

Certificate of Achievement
Certificate of Achievement-Advanced
A.A. Degree

The Graphic and Interactive Design program emphasizes the elements and principles of design in combination with the use of computers, software and other design peripherals to produce graphic design projects. Focus is placed on the creative integration and selection of type styles and images as they relate to the printed page, film/video output, web-based design, user interface design, and multimedia applications. The Graphic and Interactive Design program is designed to prepare students for the workforce.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate awareness of the computer as an effective and important mode of visual communication used by artists and designers today.
- demonstrate the creative potential of art and design software.
- analyze and interpret the elements and principles of graphic design as applied to the practice of visual communication and current graphic production techniques.
- demonstrate an understanding of the design process.
- analyze styles in typographic design, type selection, and type specification in relation to new computer technology and the World Wide Web.
- demonstrate an understanding of the range of business practices currently used by artists and designers in the visual communications industry.

Certificate of Achievement

1. Meet the requirements for this certificate level.
2. Complete the following.

ARTS 8	Two-Dimensional Design	4
ARTS 12	Design and Color	4
ARTS 53	Introduction to Visual Technology	4
ARTS 54	Visual Technology II	4
ARTS 55A	Graphic Design-Communication I	4
PHTG 4	Introduction to Digital Photography	3
	Total Units Required 23	

Recommended
ARTS 4D

Certificate of Achievement-Advanced

1. Complete the Certificate of Achievement requirements. 23
2. Meet the requirements for this certificate level.
3. Complete the following.

ARTS 55B	Graphic Design-Communication II	4
ARTS 56	Graphic Design: Page Layout for Digital Publishing	4
ARTS 57	Graphic Design-Communication: Typography	4
ARTS 63	Business Practices for Graphic Designers	4
ARTS 65	Graphic Design: UI/UX and the World Wide Web	4

ARTS 85	Graphic Design: Motion Graphics	4
ARTS 86	Graphic Design: Digital Illustration Techniques	4

Complete a minimum of three (3) units: 3

ARTS 4A	Beginning Drawing (4)	
ARTS 55C	Graphic Design-Communication III: Production Techniques (4)	
CIS 89A	Web Page Development (3)	
F/TV 20	Beginning Video Production (4)	
JOUR 61A	Student News Media Production I (3)	
JOUR 62B	Freelance Photography for Student Media (1)	
JOUR 62D	Freelance Digital Production for Student Media (1)	
JOUR 62E	Freelance Graphic Production for Student Media (1)	
	Total Units Required 54	

A.A. Degree

Major	*Complete the Cert. of Achievement and Cert. of Achievement-Advanced requirements*	*54*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

HEALTH TECHNOLOGIES

Business Office Clerk

Certificate of Achievement

Students in the Business Office Clerk Certificate of Achievement learn basic medical coding, health insurance claims billing, collections and appeals processing, medical records management, and keyboarding. Students also participate in administrative skills externships in local clinical sites as part of the program.

Student Learning Outcomes - upon completion, students will be able to:

- be eligible to be employed in a medical facility, hospital, clinic or doctor's office.

1. Meet the requirements for this certificate level.
2. Complete the following, starting with HTEC 50 first.

CIS 4*	Computer Literacy	4.5
CIS 99*	Office Software Applications	4.5
HTEC 50	Introduction to Health Technologies	2
HTEC 60A	Basic Medical Terminology	3
HTEC 72	Medical Office Financial Procedures	1.5
HTEC 73	Medical Law and Ethics	3
HTEC 75	Electronic Health Records	1.5
HTEC 96E	Business Office Clerk Externship	4
HTEC 101D	Skill Building in Medical Office Financial Procedures	1
	Total Units Required 25	

**May be substituted with another CIS course of equal or greater unit value.*

Insurance and Coding

Certificate of Achievement

The Health Technologies Department developed this Certificate of Achievement to train students in basic and advanced procedural and disease coding, health insurance claims billing, insurance claims registry maintenance, tracing unpaid claims, and evaluating rejected claims. Students also participate in administrative skills externships in local clinical sites as part of the program.

Student Learning Outcomes - upon completion, students will be able to:

- be eligible to be employed in a medical facility, hospital, clinic or doctor's office.
- be prepared to pass the National Certified Coding Associate Examination.

1. Meet the requirements for this certificate level.
2. Complete the following, starting with HTEC 50 first.

HTEC 50	Introduction to Health Technologies	2
HTEC 60A	Basic Medical Terminology	3
HTEC 60G	Advanced Medical Terminology I	2
HTEC 60H	Advanced Medical Terminology II	2
HTEC 61	Medical Communications	1.5
HTEC 72	Medical Office Financial Procedures	1.5
HTEC 73	Medical Law and Ethics	3
HTEC 76A	Advanced Medical Coding I	1.5
HTEC 76B	Advanced Medical Coding II	1.5
HTEC 96F	Insurance and Coding Externship	4
HTEC 101C	Skill Building in Medical Communications	1
HTEC 101D	Skill Building in Medical Office Financial Procedures	1
	Total Units Required 24	

Recommended
CIS 4, 99

Lab Assisting

Certificate of Achievement

The Health Technologies Department developed this Certificate of Achievement to train students in the clinical skills of performing venipunctures, setting up lab tests, processing specimens for testing in clinical labs, performing electrocardiograms and recognizing arrhythmias. Students also participate in administrative skills externships in local clinical sites as part of the program.

Student Learning Outcomes - upon completion, students will be able to:

- be eligible to be employed in a medical facility, hospital, clinic or doctor's office.
- be prepared to pass the National Phlebotomy and EKG Certification Examinations.

1. Meet the requirements for this certificate level.
2. Complete the following, starting with HTEC 50 first.

Student must present current American Red Cross First Aid or American Heart Association First Aid card and American Heart Association Basic Life Support (BLS) CPR/AED card to receive the certificate.

HTEC 50	Introduction to Health Technologies	2
HTEC 60A	Basic Medical Terminology	3
HTEC 64A	Clinical Laboratory Procedures I	1.5
HTEC 64B	Clinical Laboratory Procedures II	3
HTEC 73	Medical Law and Ethics	3
HTEC 90G	Basic Patient Care	1.5
HTEC 91	Medical Office Diagnostic Tests	1.5
HTEC 95B	Phlebotomy Technician I Externship	3
HTEC 96H	EKG Externship	4
HTEC 101A	Skill Building in Clinical Laboratory Procedures II	1
HTEC 101B	Skill Building in Basic Patient Care	1
HTEC 101F	Skill Building in Medical Office Diagnostic Tests	1
	Total Units Required	**25.5**

Recommended
CIS 4, 99
HLTH 57A
HTEC 60G, 60H

Medical File Clerk

Certificate of Achievement

The Health Technologies Department developed this Certificate of Achievement to train students in the administrative skills of answering phones, keyboarding and filing medical reports. Students also participate in administrative skills externships in local clinical sites as part of the program.

Student Learning Outcomes - upon completion, students will be able to:

- be eligible to be employed in a medical facility, hospital, clinic or doctor's office.

1. Meet the requirements for this certificate level.
2. Complete the following, starting with HTEC 50 first.

CIS 4*	Computer Literacy	4.5
CIS 99*	Office Software Applications	4.5
HTEC 50	Introduction to Health Technologies	2
HTEC 60A	Basic Medical Terminology	3
HTEC 73	Medical Law and Ethics	3
HTEC 75	Electronic Health Records	1.5
HTEC 96C	Medical File Clerk Externship	4
	Total Units Required	**22.5**

**May be substituted with another CIS course of equal or greater unit value.*

Medical Reception

Certificate of Achievement

The Health Technologies Department developed this Certificate of Achievement to train students in the administrative skills of appointment scheduling, billing, insurance and coding, and medical records management. Students also participate in administrative skills externships in local clinical sites as part of the program.

Student Learning Outcomes - upon completion, students will be able to:

- be eligible to be employed in a medical facility, hospital, clinic or doctor's office.

1. Meet the requirements for this certificate level.
2. Complete the following, starting with HTEC 50 first.

Student must present current American Red Cross First Aid or American Heart Association First Aid card and American Heart Association Basic Life Support (BLS) CPR/AED card to receive the certificate.

CIS 4*	Computer Literacy	4.5
HLTH 57A	First Aid for the Community, Home, Wilderness, and Disasters	1
HTEC 50	Introduction to Health Technologies	2
HTEC 60A	Basic Medical Terminology	3
HTEC 61	Medical Communications	1.5
HTEC 68	Medical Reception Externship	2
HTEC 71	Medical Office Reception	2
HTEC 72	Medical Office Financial Procedures	1.5
HTEC 73	Medical Law and Ethics	3
HTEC 75	Electronic Health Records	1.5
HTEC 101C	Skill Building in Medical Communications	1
HTEC 101D	Skill Building in Medical Office Financial Procedures	1
	Total Units Required	**24**

**May be substituted with another CIS course of equal or greater unit value.*

Recommended
CIS 99

Medical Records Clerk

Certificate of Achievement

The Health Technologies Department developed this Certificate of Achievement to train students in the administrative skills of answering phones, providing customer service, managing medical records, and keyboarding. Students also participate in administrative skills externships in local clinical sites as part of the program.

Student Learning Outcomes - upon completion, students will be able to:

- be eligible to be employed in a medical facility, hospital, clinic or doctor's office.

1. Meet the requirements for this certificate level.
2. Complete the following, starting with HTEC 50 first.

CIS 4*	Computer Literacy	4.5
CIS 99*	Office Software Applications	4.5
HTEC 50	Introduction to Health Technologies	2
HTEC 60A	Basic Medical Terminology	3
HTEC 71	Medical Office Reception	2
HTEC 73	Medical Law and Ethics	3
HTEC 75	Electronic Health Records	1.5
HTEC 96D	Medical Record Clerk Externship	4
	Total Units Required	**24.5**

**May be substituted with another CIS course of equal or greater unit value.*

Medical Secretary

Certificate of Achievement-Advanced

The Health Technologies Department developed this Certificate of Achievement-Advanced to train students in the administrative skills of medical transcription, billing, insurance and coding, and medical records management. Students also participate in administrative skills externships in local clinical sites as part of the program.

Student Learning Outcomes - upon completion, students will be able to:

- be eligible to be employed in a medical facility, hospital, clinic or doctor's office.

1. Meet the requirements for this certificate level.
2. Complete the following, starting with HTEC 50 first.

ACCT 1A	Financial Accounting I	5
or ACCT 1AH	Financial Accounting I - HONORS	5
BIOL 54G*	Applied Human Anatomy and Physiology: Levels of Organization	1.5
BIOL 54H*	Applied Human Anatomy and Physiology: Support, Movement, and Integration	1.5
BIOL 54I*	Applied Human Anatomy and Physiology: Coordination and Transport	1.5
BIOL 54J*	Applied Human Anatomy and Physiology: Absorption, Excretion, and Reproduction	1.5
CIS 4**	Computer Literacy	4.5
HTEC 50	Introduction to Health Technologies	2
HTEC 60A	Basic Medical Terminology	3
HTEC 60G	Advanced Medical Terminology I	2
HTEC 60H	Advanced Medical Terminology II	2
HTEC 61	Medical Communications	1.5
HTEC 68	Medical Reception Externship	2
HTEC 71	Medical Office Reception	2
HTEC 72	Medical Office Financial Procedures	1.5
HTEC 73	Medical Law and Ethics	3
HTEC 74A	Medical Transcription with Editing I	1.5
HTEC 75	Electronic Health Records	1.5
HTEC 96B	Medical Secretarial Externship	4
HTEC 101C	Skill Building in Medical Communications	1
HTEC 101D	Skill Building in Medical Office Financial Procedures	1
HTEC 101H	Skill Building in Medical Transcription and Editing I	1
	Total Units Required	**44.5**

**BIOL 40A, B, C series may be substituted for the BIOL 54G, H, I, J series.*

***May be substituted with another CIS course of equal or greater unit value.*

Recommended
CIS 99

Medical Transcription

Certificate of Achievement

The Health Technologies Department developed this Certificate of Achievement to train students in the administrative skills of transcribing medical dictation that details a patient's health care during an illness or after an injury, and editing phrase recognition transcription. Students also participate in administrative skills externships in local clinical sites as part of the program.

Student Learning Outcomes - upon completion, students will be able to:

- be eligible to be employed in a medical facility, hospital, clinic, doctor's office or research center.

1. Meet the requirements for this certificate level.
2. Complete the following, starting with HTEC 50 first.

HTEC 50	Introduction to Health Technologies	2
HTEC 60A	Basic Medical Terminology	3
HTEC 60G	Advanced Medical Terminology I	2
HTEC 60H	Advanced Medical Terminology II	2
HTEC 61	Medical Communications	1.5
HTEC 73	Medical Law and Ethics	3
HTEC 74A	Medical Transcription with Editing I	1.5
HTEC 74B	Medical Transcription with Editing II	1.5
HTEC 74C	Medical Transcription with Editing III	1.5
HTEC 96G	Medical Transcription Externship	4
HTEC 101C	Skill Building in Medical Communications	1
HTEC 101H	Skill Building in Medical Transcription and Editing I	1
HTEC 101J	Skill Building in Medical Transcription and Editing II	1
HTEC 101K	Skill Building in Medical Transcription and Editing III	1
	Total Units Required	**26**

Recommended
CIS 4, 99

Phlebotomy Technician I

Certificate of Achievement

The Health Technologies Department developed this Certificate of Achievement to train students in the clinical skills of performing venipunctures, setting up lab tests, and processing specimens for testing in clinical labs. Students also participate in administrative skills externships in local clinical sites as part of the program. The Phlebotomy Technician I program has been approved by the California Department of Public Health-Laboratory Field Services.

Student Learning Outcomes - upon completion, students will be able to:

- be prepared to pass the National Phlebotomy Certification Examination.

1. Meet the requirements for this certificate level.
2. Complete the following, starting with HTEC 50, CIS 4 and HLTH 57A first.

Student must present current American Red Cross First Aid or American Heart Association First Aid card and American Heart Association Basic Life Support (BLS) CPR/AED card to receive the certificate.

CIS 4*	Computer Literacy	4.5
HLTH 57A	First Aid for the Community, Home, Wilderness, and Disasters	1
HTEC 50	Introduction to Health Technologies	2

HTEC 60A	Basic Medical Terminology	3
HTEC 64A	Clinical Laboratory Procedures I	1.5
HTEC 64B	Clinical Laboratory Procedures II	3
HTEC 73	Medical Law and Ethics	3
HTEC 95B	Phlebotomy Technician I Externship	3
HTEC 101A	Skill Building in Clinical Laboratory Procedures II	1
	Total Units Required	**22**

**May be substituted with another CIS course of equal or greater unit value.*

Recommended
CIS 99

Medical Assisting

Certificate of Achievement-Advanced
A.S. Degree

The Health Technologies Department developed the Medical Assisting Certificate of Achievement-Advanced and A.S. degree to train students in the fundamental clinical skills of reading vital signs, assisting with minor surgery, performing routine lab procedures, administering medication, and the administrative skills of medical coding and medical records management. Students also participate in administrative skills externships in local clinical sites as part of the program.

Student Learning Outcomes - upon completion, students will be able to:

- be prepared to pass the State Medical Assisting Certification Examination.

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level.
2. Complete the following, starting with HTEC 50 first.

Student must present current American Red Cross First Aid or American Heart Association First Aid card and American Heart Association Basic Life Support (BLS) CPR/AED card to receive the certificate.

BIOL 54G*	Applied Human Anatomy and Physiology: Levels of Organization	1.5
BIOL 54H*	Applied Human Anatomy and Physiology: Support, Movement, and Integration	1.5
BIOL 54I*	Applied Human Anatomy and Physiology: Coordination and Transport	1.5
BIOL 54J*	Applied Human Anatomy and Physiology: Absorption, Excretion, and Reproduction	1.5
CIS 99**	Office Software Applications	4.5
HLTH 57A	First Aid for the Community, Home, Wilderness, and Disasters	1
HTEC 50	Introduction to Health Technologies	2
HTEC 60A	Basic Medical Terminology	3
HTEC 60G	Advanced Medical Terminology I	2
HTEC 60H	Advanced Medical Terminology II	2
HTEC 61	Medical Communications	1.5
HTEC 64A	Clinical Laboratory Procedures I	1.5
HTEC 64B	Clinical Laboratory Procedures II	3
HTEC 68	Medical Reception Externship	2
HTEC 71	Medical Office Reception	2
HTEC 72	Medical Office Financial Procedures	1.5
HTEC 73	Medical Law and Ethics	3
HTEC 74A	Medical Transcription with Editing I	1.5
HTEC 75	Electronic Health Records	1.5
HTEC 90G	Basic Patient Care	1.5
HTEC 90H	Medical Office Sterile Technique	1.5
HTEC 91	Medical Office Diagnostic Tests	1.5
HTEC 93	Pharmacology for Medical Assistants	3
HTEC 94	Administration of Medications	1.5
HTEC 95A	Medical Assisting Externship	3
HTEC 96A	Medical Assisting Externship	4
HTEC 101A	Skill Building in Clinical Laboratory Procedures II	1
HTEC 101B	Skill Building in Basic Patient Care	1
HTEC 101C	Skill Building in Medical Communications	1
HTEC 101D	Skill Building in Medical Office Financial Procedures	1
HTEC 101E	Skill Building in Medical Office Sterile Technique	1
HTEC 101F	Skill Building in Medical Office Diagnostic Tests	1
HTEC 101H	Skill Building in Medical Transcription and Editing I	1
HTEC 110	Health Technologies Employment Preparation	1.5
	Total Units Required	**62.5**

**BIOL 40A, B, C series may be substituted for the BIOL 54G, H, I, J series.*

***May be substituted with another CIS course of equal or greater unit value.*

A.S. Degree

Student must present current American Heart Association First Aid and Adult CPR Pro card to receive the degree.

Major	*Complete the Cert. of Achievement-Advanced requirements*	*62.5*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required	**90**

Recommended
PSYC 1
SOC 1

HISTORY

Associate in Arts in History for Transfer

A.A.-T. Degree

The History major consists of courses appropriate for an Associate in Arts in History for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline, and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). The Associate in Arts in History for Transfer is intended for students who plan to complete a bachelor's degree in History at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept

this degree will be required to complete no more than 60 (semester) units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate and apply historical knowledge to support defensible statements of meaning and evaluation about a time period's developments.
- use secondary and primary sources to construct historical analyses of the human condition within the context of various cultures, civilizations and time periods.

1. Meet the A.A.-T./A.S.-T. degree requirements for transfer.
2. Complete the following.

HIST 17A	History of the United States to Early National Era	4
or HIST 17AH	History of the United States to Early National Era - HONORS	4
HIST 17B	History of the United States from 1800 to 1900	4
or HIST 17BH	History of the United States from 1800 to 1900 - HONORS	4
HIST 17C	History of the United States from 1900 to the Present	4
or HIST 17CH	History of the United States from 1900 to the Present- HONORS	4

Complete one (1) sequence: **12**

HIST 3A	World History from Prehistory to 750 CE (4)
or HIST 3AH	World History from Prehistory to 750 CE - HONORS (4)
HIST 3B	World History from 750 CE to 1750 CE (4)
or HIST 3BH	World History from 750 CE to 1750 CE - HONORS (4)
HIST 3C	World History from 1750 CE to the Present (4)
or HIST 3CH	World History from 1750 CE to the Present - HONORS (4)
or	
HIST 6A	History of Western Civilization (4)
or HIST 6AH	History of Western Civilization - HONORS (4)
HIST 6B	History of Western Civilization (4)
or HIST 6BH	History of Western Civilization - HONORS (4)
HIST 6C	History of Western Civilization (4)
or HIST 6CH	History of Western Civilization - HONORS (4)

Complete one (1) course: **4**

HIST 7A	Colonial Latin American History (4) *also listed as ICS 38A*
HIST 7B	Modern Latin American History (4) *also listed as ICS 38B*
HIST 16A	History of Africa to 1800 (4) *also listed as ICS 16A*
HIST 16B	History of Africa from 1800 to the Present (4) *also listed as ICS 16B*
HIST 19A	History of Asian Civilization: China and Japan (to the 19th Century) (4) *also listed as INTL 19A*
HIST 19B	History of Asian Civilization: China and Japan (19th - 21st Centuries) (4) *also listed as INTL 19B*

Complete one (1) course: **4**

HIST 2	Introduction to California Studies (4)
HIST 9	Women in American History (4) *also listed as WMST 9*
or HIST 9H	Women in American History - HONORS (4) *also listed as WMST 9H*
HIST 10	History of California (4)
or HIST 10H	History of California - HONORS (4)
HIST 18A	African American History to 1865 (4) *also listed as ICS 18A*
HIST 18B	African American History Since 1865 (4) *also listed as ICS 18B*
HIST 28	Social Environmental History (4) *also listed as ICS 28*

Major	*History for Transfer*	*32*
Transfer GE	*CSU GE or IGETC for CSU pattern (47-61 units)*	
Electives	*CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90*	
	Total Units Required 90	

HUMANITIES

NEW

Humanities

Certificate of Achievement

The Humanities Program educates students in the ways of thinking and acting from a global and interdisciplinary perspective by fostering engagement with the diverse, dynamic and interconnected products of human thought and creativity. The study of Humanities allows students to develop a foundational understanding of personal and community values, cultural views, religious beliefs and aesthetic practices and theories and how these shape the way we view the world and ourselves. The Certificate of Achievement in Humanities demonstrates the student's solid background in the critical and empathetic thinking skills that mark the deliberate thought processes and formation of complex questions without definitive answers that are the hallmark of the Humanities. This certificate allows students to acquire lifelong practices that foster true knowledge as distinct from an aggregate of information and facts. These skills and competencies are applicable across disciplines and will enrich a wide variety of majors and professional careers.

Student Learning Outcomes - upon completion, students will be able to:

- synthesize critical, empathetic, creative, cooperative and independent thinking skills.
- demonstrate the ability, both orally and in writing, to analyze meaning within various modes of cultural production in relation to their political, economic, social, and religious context.

- formulate knowledge of the deep connections between and within the complexities of diverse historical periods and cultural traditions as a framework for a dynamic understanding of the contemporary world.
- develop the practice of thinking through moral and ethical problems and examining one's own assumptions.
- deepen sources of wisdom through a complex understanding of how others have dealt with failures, successes, adversities and triumphs.
- cultivate the capacity for personal, as well as social change.

1. Meet the requirements for this certificate level.
2. Complete the following.

Complete five (5) courses:		**20**
HUMI 1	Creative Minds (4)	
or HUMI 1H	Creative Minds - HONORS (4)	
HUMI 2	But is it Art? Questions and Criticism (4)	
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)	
or HUMI 9H	Introduction to Comparative Religion - HONORS (4)	
HUMI 10	Global Religious Perspectives: Judaism, Christianity and Islam (4)	
HUMI 15	Discussion on the Arts (4)	
HUMI 16	Arts, Ideas and Values (4)	
HUMI 18	History as Mystery: A Critique of Western Perspectives in a Global Context (4)	
or HUMI 18H	History as Mystery: A Critique of Western Perspectives in a Global Context - HONORS (4)	
HUMI 20	The Greek Achievement (4)	
	Total Units Required	**20**

INTERCULTURAL STUDIES

Intercultural Studies

Skills Certificate

Students pursuing the Intercultural Studies Skills Certificate gain the knowledge and skills necessary for increasing cultural sensitivity, cultural competence, and social equity. This Skills Certificate is designed for anyone wanting to interact more effectively with people from a variety of cultural and linguistic backgrounds. The goals of the program are to facilitate awareness and understanding of the multi-ethnic society in which we live and work and to develop critical thinking frameworks for addressing societal inequities.

Student Learning Outcomes - upon completion, students will be able to:

- critically analyze social and political phenomena based on social constructs of race, class, ethnicity, gender, sexuality, and identity to express cultural competence in local and global contexts.
- articulate the values, experiences and contributions of historically marginalized populations.

1. Meet the requirements for this certificate level.
2. Complete the following.

ICS 4	Race, Ethnicity and Inequality	4
ICS 7	Intercultural Communication *also listed as COMM 7*	4
or ICS 7H	Intercultural Communication - HONORS *also listed as COMM 7H*	4
ICS 9	Race and Ethnicity: Belonging and Exclusion in the U.S.	4

Complete a minimum of 12 units:		**12**
ICS 2A	Introduction to Peer Mentoring, Leadership, and Community Building (2)	
ICS 2B	Practicum in Peer Mentoring, Leadership, and Community Building (2)	
ICS 10	An Introduction to African American Studies (4)	
ICS 11	Sankofa: The Roots of the African American Experience (4)	
ICS 20	Asian American Experiences Past to Present (4)	
ICS 21	Introduction to Pacific Islander History and Culture (4)	
ICS 22	Contemporary Asian American Communities (4)	
ICS 24	Asian Pacific American Literature (4) *also listed as ELIT 24*	
ICS 26	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer Studies (4)	
ICS 29	Cultural Pluralism and American Law and Justice (4) *also listed as ADMJ 29*	
ICS 30	Introduction to Chicano/a and Latino/a Studies (4)	
ICS 31	Chicano/a Culture (4)	
ICS 32	Chicano/a and Latino/a History (4)	
ICS 43	Native American History (4)	
ICS 44	Native American Religious Traditions (4)	
WMST 8	Women of Color in the USA (4)	
	Total Units Required	**24**

Intercultural Studies

Certificate of Achievement-Advanced

A.A. Degree

The Certificate of Achievement-Advanced and A.A. degree is an interdisciplinary program that provides both focused study on one or more ethnic groups and coursework that examines the social constructs and dynamics that govern our interactions with others. Students pursuing the Certificate of Achievement-Advanced or A.A. in Intercultural Studies gain the knowledge and skills necessary for increasing their cultural sensitivity, cultural competence and social equity. This program enables them to work with confidence and increased effectiveness in a wide variety of international and multicultural settings.

Student Learning Outcomes - upon completion, students will be able to:

- critically analyze social and political phenomena based on social constructs of race, class, ethnicity, gender, sexuality, and identity to express cultural competence in local and global contexts.

- articulate the values, experiences and contributions of historically marginalized populations.
- demonstrate ability to interact in the workplace, community and other social contexts with sensitivity to individual and group-dynamic issues arising from political, economic, and cultural experiences and positions.

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level.
2. Complete the following.

ICS 4	Race, Ethnicity and Inequality	4
ICS 5	History of Art: Multicultural Arts in the United States *also listed as ARTS 2F*	4
ICS 7	Intercultural Communication *also listed as COMM 7*	4
or ICS 7H	Intercultural Communication - HONORS *also listed as COMM 7H*	4
ICS 9	Race and Ethnicity: Belonging and Exclusion in the U.S.	4
ICS Electives	Complete eight (8) units of ICS electives listed below (unduplicated by GE Requirements)	8

Complete one (1) option: 16

Option 1: General Multicultural Background
Complete 16 units from three (3) or more areas.

Option 2: Two Ethnic Areas
Complete 16 units from two (2) areas.

Option 3: One Ethnic Area
Complete 16 units from one (1) area.

African American

ICS 10	An Introduction to African American Studies (4)
ICS 11	Sankofa: The Roots of the African American Experience (4)
ICS 12	An Introduction to African American Literature (4)
ICS 16A	History of Africa to 1800 (4) *also listed as HIST 16A*
ICS 16B	History of Africa from 1800 to the Present (4) *also listed as HIST 16B*
ICS 18A	African American History to 1865 (4) *also listed as HIST 18A*
ICS 18B	African American History Since 1865 (4) *also listed as HIST 18B*

Asian American

ICS 20	Asian American Experiences Past to Present (4)
ICS 21	Introduction to Pacific Islander History and Culture (4)
ICS 22	Contemporary Asian American Communities (4)
ICS 24	Asian Pacific American Literature (4) *also listed as ELIT 24*
INTL 19A	History of Asian Civilization: China and Japan (to the 19th Century) (4) *also listed as HIST 19A*
INTL 19B	History of Asian Civilization: China and Japan (19th - 21st Centuries) (4) *also listed as HIST 19B*

Chicano

ICS 30	Introduction to Chicano/a and Latino/a Studies (4)
ICS 31	Chicano/a Culture (4)
ICS 32	Chicano/a and Latino/a History (4)
ICS 33	The Chicano/a and Latino/a and the Arts (4)
ICS 35	Chicano/a, Latino/a Literature (4)

Latin American

ICS 38A	Colonial Latin American History (4) *also listed as HIST 7A*
ICS 38B	Modern Latin American History (4) *also listed as HIST 7B*

Multicultural

HIST 3A	World History from Prehistory to 750 CE (4)
or HIST 3AH	World History from Prehistory to 750 CE - HONORS (4)
HIST 3B	World History from 750 CE to 1750 CE (4)
or HIST 3BH	World History from 750 CE to 1750 CE - HONORS (4)
HIST 3C	World History from 1750 CE to the Present (4)
or HIST 3CH	World History from 1750 CE to the Present - HONORS (4)
ICS 2A	Introduction to Peer Mentoring, Leadership, and Community Building (2)
ICS 2B	Practicum in Peer Mentoring, Leadership, and Community Building (2)
ICS 17	Critical Consciousness and Social Change (4)
or ICS 17H	Critical Consciousness and Social Change - HONORS (4)
ICS 26	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer Studies (4)
ICS 29	Cultural Pluralism and American Law and Justice (4) *also listed as ADMJ 29*
ICS 47	Introduction to Disability Studies (4)
ICS 77 series	ICS 77, 77X, 77Y, 77Z Special Projects in Intercultural Studies (1-4)
ICS 78 series	ICS 78, 78W, 78X, 78Y, 78Z Special Group Projects in Intercultural Studies (0.5-4)
WMST 8	Women of Color in the USA (4)

Native American

ICS 41	Native American Contemporary Society (4)
ICS 42	California Native Americans (4)
ICS 43	Native American History (4)
ICS 44	Native American Religious Traditions (4)
ICS 45	Survey of Native American Arts (4)
ICS 46	Native American 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, & 3 above, complete 20 units.

Major	*Complete the Cert. of Achievement-Advanced requirements plus four (4) additional units*	*44*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required	**90**

JOURNALISM

A.A. Degree

The Journalism A.A. degree prepares students to transfer to a four-year university in journalism, mass communications, public relations/advertising or related disciplines, and offers students sufficient training to obtain an internship at a media outlet in print or electronic journalism or within the field of new media.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate competency in the basics of journalistic writing, including grammar, punctuation, story structure and journalistic styles.
- demonstrate competency in research, information gathering and critical analysis of information using techniques such as observation, researching sources, and interviewing.
- compile a portfolio of print, electronic and/or multimedia projects that tell journalistic stories.
- apply media literacy skills to explain the communication process and detect media bias.
- summarize steps appropriate to gain employment in a mass communications industry.

Prerequisite:		**5**
EWRT 1A	Composition and Reading (5)	
or EWRT 1AH	Composition and Reading - HONORS (5)	

1. Meet the A.A./A.S. degree requirements.
2. 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
PHTG 4	Introduction to Digital Photography	3

Complete one (1) course:		**5**
EWRT 1B	Reading, Writing and Research (5)	
or EWRT 1BH	Reading, Writing and Research - HONORS (5)	
EWRT 2	Critical Reading, Writing and Thinking (5)	
or EWRT 2H	Critical Reading, Writing and Thinking - HONORS (5)	

Complete one (1) course:		**3**
JOUR 61A	Student News Media Production I (3)	
JOUR 61B	Student News Media Production II (3)	
JOUR 61C	Editorial Leadership for Student News Media (3)	

Complete two (2) courses:		**2-8**
JOUR 62A	Freelance Reporting for Student Media (1)	
JOUR 62B	Freelance Photography for Student Media (1)	
JOUR 62C	Freelance Video Production for Student Media (1)	
JOUR 62D	Freelance Digital Production for Student Media (1)	
JOUR 62E	Freelance Graphic Production for Student Media (1)	
JOUR 62F	Freelance Copy Editing for Student Media (1)	
JOUR 77 series	JOUR 77W, 77X, 77Y, 77Z Special Projects in Journalism (1-4)	
JOUR 78 series	JOUR 78W, 78X, 78Y, 78Z Special Topics in Journalism (1-4)	
JOUR 80	Introduction to Public Relations (4)	

Complete a minimum of four (4) units:		**4**
ARTS 55A	Graphic Design-Communication I (4)	
ARTS 65	Graphic Design: UI/UX and the World Wide Web (4)	
CIS 89A	Web Page Development (3)	
COMM 9	Argumentation: Analysis of Oral and Written Communication (5)	
EWRT 65A	Literary Magazine I, National Edition (2)	
EWRT 65AX	Literary Magazine I, National Edition (3)	
EWRT 68A	Literary Magazine I, Student Edition (2)	
EWRT 68AX	Literary Magazine I, Student Edition (3)	
F/TV 20	Beginning Video Production (4)	
ICS 7	Intercultural Communication (4) *also listed as COMM 7*	
or ICS 7H	Intercultural Communication - HONORS *also listed as COMM 7H*	4
ICS 29	Cultural Pluralism and American Law and Justice (4) *also listed as ADMJ 29*	
LIB 1	Library Research Skills (1)	
POLI 1	American Government and Politics (5)	

Major	*Journalism*	*27-33*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required	**90**

Associate in Arts in Journalism for Transfer

A.A.-T. Degree

The Journalism major consists of courses appropriate for an Associate in Arts in Journalism for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline, and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). Jobs in the field include: journalist, multimedia producer, editor, writer, publication designer, copy editor, social media specialist, content producer, newsletter editor, public relations representative, publicist, sportswriter and photojournalist.

The Associate in Arts in Journalism for Transfer is intended for students who plan to complete a bachelor's degree in Journalism at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 (semester) units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate competency in the basics of journalistic writing, including grammar, punctuation, story structure and journalistic styles.
- demonstrate competency in research, information gathering and critical analysis of information using techniques such as observation, researching sources, and interviewing.
- compile a portfolio of print, electronic and/or multimedia projects that tell journalistic stories.
- apply media literacy skills to explain the communication process and detect media bias.
- identify and apply the steps appropriate to gain employment in a mass communications industry.

1. Meet the A.A.-T./A.S.-T. degree requirements for transfer.
2. 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 61A	Student News Media Production I	3

Complete one (1) option: 4-6

Option 1:

JOUR 61B	Student News Media Production II (3)
JOUR 61C	Editorial Leadership for Student News Media (3)

Option 2:

JOUR 80	Introduction to Public Relations (4)

Complete three (3) courses: 11-15

COMM 8	Argumentation and Critical Inquiry in Oral Communication (5)
or COMM 8H	Argumentation and Critical Inquiry in Oral Communication - HONORS (5)
ECON 1	Principles of Macroeconomics (4)
or ECON 1H	Principles of Macroeconomics - HONORS (4)
or ECON 2	Principles of Microeconomics (4)
or ECON 2H	Principles of Microeconomics - HONORS (4)
EWRT 2	Critical Reading, Writing and Thinking (5)
or EWRT 2H	Critical Reading, Writing and Thinking - HONORS (5)
MATH 10	Elementary Statistics and Probability (5)
or MATH 10H	Elementary Statistics and Probability - HONORS (5)
or PSYC 15	Basic Statistics and Research Methods in Social and Behavioral Sciences (4) *also listed as SOC 15*
PHTG 1	Basic Photography (3)
POLI 1	American Government and Politics (5)
POLI 2	Comparative Politics (4)

Major	*Journalism for Transfer*	*28-34*
Transfer GE	*CSU GE or IGETC for CSU pattern (47-61 units)*	
Electives	*CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90*	
	Total Units Required 90	

KINESIOLOGY

Associate in Arts in Kinesiology for Transfer

A.A.-T. Degree

The Kinesiology major consists of courses appropriate for an Associate in Arts in Kinesiology for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline, and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). The Associate in Arts in Kinesiology for Transfer is intended for students who plan to complete a bachelor's degree in Kinesiology at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 (semester) units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Student Learning Outcomes - upon completion, students will be able to:

- display increasing confidence in the ability to use a range of speaking, listening and collaboration skills.
- apply fitness concepts to individuals seeking training programs.
- analyze, evaluate, and respond to requests for individualized fitness programs by weighing research, examining evidence, and critical reasoning.
- display competence in a variety of sports and activities.

1. Meet the A.A.-T./A.S.-T. degree requirements for transfer.
2. Complete the following.

BIOL 40A	Human Anatomy and Physiology	5
BIOL 40B	Human Anatomy and Physiology	5
BIOL 40C	Human Anatomy and Physiology	5
KNES 45	Introduction to Kinesiology	4

Complete a minimum of one (1) unit from three (3) different movement activity areas below: 3

- Aquatics
- Combatives
- Dance
- Fitness
- Individual and Dual Sports
- Team Sports

Complete two (2) courses:		**10**
BIOL 11	Human Biology (5)	
CHEM 30A	Introduction to General, Organic and Biochemistry I (5)	
MATH 10 or MATH 10H	Elementary Statistics and Probability (5) Elementary Statistics and Probability - HONORS (5)	
Major	*Kinesiology for Transfer*	*32*
Transfer GE	*CSU GE or IGETC for CSU pattern (47-61 units)*	
Electives	*CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90*	
	Total Units Required 90	

LEADERSHIP AND SOCIAL CHANGE

Leadership and Social Change

Certificate of Achievement

The Leadership and Social Change Certificate of Achievement prepares students to be community leaders, agents of change in the workplace, and responsible participants in civic life in general. Students completing this certificate are prepared to work as an entry-level union organizer or staff person at a non-profit organization. Students who plan to pursue a transfer degree can use the skills obtained to analyze the social forces at work in, and to take leadership in, their areas of work or study. Contact the Vasconcellos Institute for Democracy in Action (VIDA) at www.deanza.edu/vida for more information on earning this certificate.

Student Learning Outcomes - upon completion, students will be able to:

- analyze the social processes that foster inequality and disempowerment, and those that challenge inequality and lead to empowerment.
- analyze the ways that social processes are amenable to transformation through strategic planning and constituent mobilization.
- apply leadership skills, such as meeting facilitation, strategic planning, consensus-building and generating buy-in from stakeholders, with the aim of fostering social justice and empowerment.

1. Meet the requirements for this certificate level.
2. Complete the following.

POLI 17	Grassroots Democracy: Leadership and Power *also listed as ICS 27*	4
or POLI 17H	Grassroots Democracy: Leadership and Power - HONORS *also listed as ICS 27H*	4

Leadership Skills		
Complete a minimum of four (4) units:		**4**
BUS 65	Leadership (5)	
COMM 15	Critical Decision-Making in Groups (5)	
or COMM 15H	Critical Decision-Making in Groups - HONORS (5)	
COMM 70	Effective Organizational Communication (5)	
or COMM 70H	Effective Organizational Communication - HONORS (5)	
E S 65	Environmental Stewardship (1)	
E S 66	Environmental Leadership (1)	
E S 67	Environmental Team-Building (1)	
E S 68	Community-Based Coalitions and Stakeholders (1)	
ICS 2A	Introduction to Peer Mentoring, Leadership, and Community Building (2)	
ICS 2B	Practicum in Peer Mentoring, Leadership, and Community Building (2)	
ICS 19	Justice, Nature and the Geographies of Identity (4)	
ICS 55	Civic Leadership for Community Empowerment (4)	
POLI 56	Introduction to Community Organizing (2)	

Understanding Social Change		
Complete a minimum of four (4) units:		**4**
ICS 10	An Introduction to African American Studies (4)	
ICS 17	Critical Consciousness and Social Change (4)	
or ICS 17H	Critical Consciousness and Social Change - HONORS (4)	
ICS 26	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer Studies (4)	
ICS 29	Cultural Pluralism and American Law and Justice (4) *also listed as ADMJ 29*	
POLI 15	Grassroots Democracy: Race, Politics and the American Promise (4) *also listed as ICS 25*	
POLI 16	Grassroots Democracy: Social Movements Since the 1960s (4) *also listed as ICS 36*	
SOC 5	Sociology of Globalization and Social Change (4) *also listed as INTL 8*	
WMST 1	Introduction to Women's Studies (4)	
WMST 8	Women of Color in the USA (4)	
WMST 24	Women and Gender in Global Perspectives (4)	
WMST 25	Introduction to Black Feminism (4)	
WMST 26	La Mujer: Latina Life and Experience (4)	
WMST 27	Women and Gendered Violence (4)	

Leadership Internship		
Complete a minimum of six (6) units:		**6**
ARTS 72	Internship in Art (1)	
ICS 80 series	ICS 80, 80W, 80X, 80Y, 80Z Community Based Learning in Intercultural Studies - Beginning (0.5-4)	
ICS 81 series	ICS 81, 81W, 81X, 81Y, 81Z Community Based Learning in Intercultural Studies - Intermediate (0.5-4)	

ICS 82 series	ICS 82, 82W, 82X, 82Y, 82Z Community Based Learning in Intercultural Studies - Advanced (0.5-4)
POLI 64 series	POLI 64, 64X, 64Y, 64Z Political Science Internship (1-4)
SOSC 80 series	SOSC 80, 80W, 80X, 80Y, 80Z Community Based Learning in Social Sciences - Beginning (0.5-4)
SOSC 82 series	SOSC 82, 82W, 82X, 82Y, 82Z Community Based Learning in Social Sciences - Intermediate (0.5-4)
SOSC 83 series	SOSC 83, 83W, 83X, 83Y, 83Z Community Based Learning in Social Sciences - Advanced (0.5-4)
	Total Units Required 18

LIBERAL ARTS

Liberal Arts

A.A. Degree

Designed primarily for students who plan on transferring to the University of California or California State University, the associate degree in Liberal Arts represents the completion of a broad area of study with an emphasis in one of the following four areas: Arts and Letters, Business and Computer Information Systems, Science, Math and Engineering and Social and Behavioral Sciences. The degree allows the student to develop a broad set of essential life/work competencies such as: communication, critical thinking, problem solving, quantitative reasoning and multicultural skills. Students complete a minimum of 27 units from one of the four emphasis areas, the A.A. degree General Education requirements and the A.A./A.S. degree requirements noted in the campus catalog. Courses used for the 27 unit emphasis area requirement may not be used to satisfy the General Education requirements. **Note: Students are limited to earning one Liberal Arts degree.**

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate the use of effective language and speech communication skills.
- analyze and solve problems by using thoughtful and logical reasoning skills.
- recognize and value the complexities of living in a multicultural world by demonstrating an appreciation of diversity in its many forms.
- display behaviors that promote the mental and physical well-being of self and others.
- identify basic/foundational theories, concepts, and practices in the comprehensive area of emphasis.

Arts and Letters Emphasis

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, 18A, 18B, 18C, 18D, 18E, 19H, 19J, 19K, 19M, 20, 37A, 37B, 37C, 54, 55A, 55B, 55C, 56, 57, 58A, 58B, 58C, 63, 65, 70, 71, 72, 85, 86
COMM 1, 1H, 8, 8H, 9, 10, 10H, 15, 15H
DANC 22, 22K, 22M, 23A, 23L, 23M, 23N, 24A, 25A, 25B, 27A, 27B, 27C, 27D, 37A, 38A
E S (Environmental Studies) 3
ELIT 8, 10, 11, 12, 17, 19, 21, 22, 24, 39, 40, 41, 44, 46A, 46B, 46C, 47A, 47B, 48A, 48B, 48C
ESL 6
EWRT 1B, 1BH, 1C, 2, 2H, 30, 40, 41, 42
F/TV 1, 1H, 2A, 2AW, 2B, 2BW, 2C, 2CW, 20, 41, 42, 43, 66A, 69A, 71H, 75G, 75K
FREN 1, 2, 3, 4, 5, 6
GERM 1, 2, 3, 4, 5, 6
HNDI 1, 2, 3
HIST 6A, 6AH, 6B, 6BH, 6C, 6CH
HUMI 1, 1H, 2, 5, 6, 7, 9, 9H, 10, 13, 15, 16, 18, 18H, 20
ICS 5, 11, 12, 24, 33, 35, 44, 45, 46, 47
INTL 10, 11, 13, 21, 22, 23, 24
ITAL 1, 2, 3
JAPN 1, 2, 3, 4, 5, 6
JOUR 2, 21A, 21B, 80
KORE 1, 2, 2H, 3, 3H
LING 1
MAND 1, 2, 3, 4, 5, 6
MUSI 1A, 1B, 1C, 1D, 1E, 3A, 3B, 3C, 4A, 4B, 4C, 5A, 8, 9A, 10A, 12A, 12B, 12C, 13A, 13B, 13C, 14A, 14B, 14C, 14D, 15A, 15B, 16A, 16B, 18A, 18B, 18C, 20, 21, 22, 25, 31, 32A, 34, 42, 44A, 45, 48A, 48B, 48C, 51, 53, 58A, 58B
PERS 1, 2, 3
PHIL 1, 2, 3, 4, 7, 8, 14A, 14B, 14C, 20A, 20B, 20C, 24, 30, 49
PHTG 1, 2, 3, 4, 5, 7, 21, 52, 54, 57A, 57B, 58A, 58B, 60
RUSS 1, 2, 3
SIGN 1, 2, 3
SPAN 1, 2, 3, 4, 5, 6
THEA 1, 20A, 20B, 20C
VIET 1, 2, 3, 4, 5, 6
WMST 3C, 21, 49

Major	*Arts and Letters Emphasis*	*27*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

Business and Computer Information Systems Emphasis

ACCT 1A, 1AH, 1B, 1BH, 1C, 1CH, 51A, 51B, 52, 58, 64, 66, 67A, 67B, 68, 74, 75, 86, 87AH-87AM, 88
BUS 10, 18, 21, 54, 55, 56, 57, 58, 59, 60, 65, 70, 85, 87, 89, 90, 91, 96
CIS 2, 3, 4, 14A, 14B, 18A, 18B, 18C, 21JA, 21JB, 22A, 22B, 22BH, 22C, 22CH, 26A, 26B, 27, 28, 29, 30A, 30B, 31, 33A, 33B, 35A, 35B, 36A, 36B, 40, 41A, 41B, 50, 53, 55, 56, 57, 63, 64A, 64B, 64C, 64D, 64E, 64F, 66, 67A, 67B, 73, 74, 75A, 75B, 75D, 75E, 79, 89A, 89C, 98, 99
COMM 70, 70H
ECON 1, 1H, 2, 2H, 3, 4, 5
LIB 1, 51, 53
MATH 1A, 1AH, 1B, 1BH, 1C, 1CH, 1D, 1DH, 10, 10H, 11, 12, 17
REST 50, 51, 52A, 53, 61

Major	*Business and Computer Information Systems Emphasis*	*27*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

Science, Math and Engineering Emphasis

ANTH 1, 1H, 1L, 5
ASTR 4, 10
BIOL 6A, 6AH, 6B, 6C, 6CH, 10, 10H, 11, 13, 15, 26, 40A, 40B, 40C, 45, 54G, 54H, 54I, 54J
CHEM 1A, 1B, 1C, 10, 12A, 12B, 12C, 25, 30A, 30B
CIS 2, 3, 14A, 14B, 18A, 18B, 18C, 21JA, 21JB, 22A, 22B, 22BH, 22C, 22CH, 26A, 26B, 27, 28, 29, 30A, 30B, 31, 33A, 33B, 35A, 35B, 36A, 36B, 40, 41A, 41B, 50, 53, 57, 63, 64A, 64B, 64C, 64D, 66, 67A, 67B, 73, 74, 75A, 75B, 75D, 75E, 79, 89A, 89C
E S (Environmental Studies) 2, 50, 56, 58
EDUC 46
ENGR 10, 35, 37
ESCI (Environmental Sciences) 1, 1L, 19, 20, 21, 30
GEO 1, 5
GEOL 10, 20
HLTH 21
KNES 45, 53
MATH 1A, 1AH, 1B, 1BH, 1C, 1CH, 1D, 1DH, 2A, 2B, 10, 10H, 11, 12, 17, 22, 23, 41, 42, 43, 44, 46
MET 10, 10L, 20L
NUTR 10
PHYS 2A, 2B, 2C, 4A, 4B, 4C, 4D, 10, 50

Major	*Science, Math and Engineering Emphasis*	*27*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

Social and Behavioral Sciences Emphasis

ADMJ 1, 3, 5, 6, 11, 25, 29, 51, 53, 54, 55, 56, 61, 62, 73, 74A, 75, 78, 84, 90A, 95
ANTH 2, 2H, 3, 4, 6, 68
ARTS 3TC
BUS 21
C D 10G, 10H, 12, 50, 51A, 52, 53, 54, 55, 56, 57, 58, 59G, 59H, 60, 61, 63, 64, 67, 68, 69, 70, 71, 72, 73, 74, 75, 80, 90
CIS 2
CLP 70, 75
COMM 7, 7H, 16, 16H, 70, 70H
E S (Environmental Studies) 1, 2, 3
ECON 1, 1H, 2, 2H, 3, 4, 5
EDUC 1, 46
F/TV 10
GEO 1, 4, 5, 10
HIST 2, 3A, 3AH, 3B, 3BH, 3C, 3CH, 6A, 6AH, 6B, 6BH, 6C, 6CH, 7A, 7B, 9, 9H, 10, 10H, 16A, 16B, 17A, 17AH, 17B, 17BH, 17C, 17CH, 18A, 18B, 19A, 19B, 28
HUMA 10, 20, 50
ICS 2A, 4, 7, 7H, 9, 10, 11, 16A, 16B, 17, 17H, 18A, 18B, 19, 20, 21, 22, 25, 26, 27, 27H, 28, 29, 30, 31, 32, 36, 37, 38A, 38B, 41, 42, 43, 44, 55
INTL 5, 8, 19A, 19B, 33
JOUR 2
MATH 10, 10H, 17, 46
PARA 3, 11, 25, 54, 67, 74A, 75, 90A, 95
POLI 1, 2, 3, 5, 10, 11, 13, 15, 16, 17, 17H, 56, 75, 95
PSYC 1, 2, 3, 4, 5, 6, 9, 10G, 10H, 12, 14, 15, 24, 51, 60, 63, 67, 74A
SOC 1, 5, 14, 15, 20, 28, 29, 35, 51, 54, 73
WMST 1, 3C, 8, 9, 9H, 12, 22, 24, 25, 26, 27, 28, 29, 31

Major	*Social and Behavioral Sciences Emphasis*	*27*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

MANAGEMENT

Management

Certificate of Achievement

In the Certificate of Achievement in Management, students learn the fundamentals of general business administration, management, human resources and leadership, among other areas of study. Students develop practical knowledge and skills for formal management roles or other positions of influence. Successful students will also be prepared for higher-level job responsibilities and be able to communicate more effectively. De Anza College's Management program is built on the ladder concept, whereby students can complete a Certificate of Achievement en route to the A.A. degree.

Student Learning Outcomes - upon completion, students will be able to:

- identify management issues and apply solutions and leadership styles.

1. Meet the requirements for this certificate level.
2. Complete the following.

BUS 10	Introduction to Business	5
BUS 57	Human Resource Management	4
BUS 65	Leadership	5
BUS 96	Principles of Management	5

Complete one (1) course: **5**

BUS 18	Business Law I (5)
BUS 55	Introduction to Entrepreneurship (5)
BUS 56	Human Relations in the Workplace (5)
BUS 60	International Business Management (5)

Total Units Required 24

Management

A.A. Degree

The A.A. degree in Management prepares students for a career managing and leading employees in positions such as (but not limited to) service manager, retail sales manager, customer service supervisor, office manager, human resources coordinator, employee benefits associate, construction project manager, hotel/hospitality supervisor or management trainee. students learn the fundamentals of general business administration, with an emphasis on management, leadership, and human resource management.

Student Learning Outcomes - upon completion, students will be able to:

- analyze management issues, develop solutions, and compare leadership styles for a given organizational environment.

1. Meet the A.A./A.S. degree requirements.
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 the Workplace	5
BUS 57	Human Resource Management	4
BUS 60	International Business Management	5
BUS 65	Leadership	5
BUS 96	Principles of Management	5

Complete a minimum of 14 units: **14**

ACCT 1A	Financial Accounting I (5)
or ACCT 1AH	Financial Accounting I - HONORS (5)
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)
COMM 70	Effective Organizational Communication (5)
or COMM 70H	Effective Organizational Communication - HONORS (5)
ECON 1	Principles of Macroeconomics (4)
or ECON 1H	Principles of Macroeconomics - HONORS (4)

Major	*Management*	*53*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	

Total Units Required 90

MANDARIN

Mandarin

Certificate of Achievement

The Certificate of Achievement in Mandarin is designed to open employment opportunities for local students because of the large number of Bay Area companies conducting business and trade with China and Taiwan, along with Singapore and other Asian countries where Mandarin is widely used. The electronics industry in particular seeks to employ people who know Mandarin. For students planning to continue their undergraduate or graduate education in business, electronics, or law, this certificate will complement their studies. From a cultural standpoint, Mandarin study is valuable in California, with its rich diversity of cultural traditions represented by many Mandarin-speaking immigrants. Many Mandarin courses can also satisfy GE requirements for an associate degree and transfer GE requirements.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate a working command of essential vocabulary, recognize and reproduce between 600-800 Chinese characters, use proper language structures when providing or requesting information orally and in writing, and use the appropriate level of respect and language style in varying situations.
- demonstrate a solid understanding of the social protocols and contributions of Mandarin-speaking cultures by analyzing and comparing them to other cultures.

1. Meet the requirements for this certificate level.
2. Complete the following.

INTL 19A	History of Asian Civilization: China and Japan (to the 19th Century) *also listed as HIST 19A*	4
MAND 1	Elementary Mandarin (First Quarter)	5
MAND 2	Elementary Mandarin (Second Quarter)	5
MAND 3	Elementary Mandarin (Third Quarter)	5

Total Units Required 19

Mandarin

Certificate of Achievement-Advanced

The Certificate of Achievement-Advanced in Mandarin is designed to open employment opportunities for local students because of the large number of Bay Area companies conducting business and trade with China, Taiwan, Singapore and other Asian countries where Mandarin is widely used. It is a two-year course of study designed to build a strong language foundation in communication as well as expose students to Chinese culture and literature. Students transferring to four-year schools who plan to major or minor in Mandarin are well prepared by this curriculum.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate a working command of essential vocabulary, recognize and reproduce at least 1800 Chinese words, use proper language structures accurately when providing or requesting information orally and in writing with native speakers, and use the appropriate level of respect and language style in varying situations.

- demonstrate a solid understanding of the subtleties and idiosyncrasies of Mandarin-speaking cultures by analyzing and comparing them to other cultures.

1. Complete the Certificate of Achievement requirements. 19
2. Meet the requirements for this certificate level.
3. Complete the following.

MAND 4	Intermediate Mandarin (First Quarter)	5
MAND 5	Intermediate Mandarin (Second Quarter)	5
MAND 6	Intermediate Mandarin (Third Quarter)	5
	Total Units Required 34	

MARKETING MANAGEMENT

Marketing Management

Certificate of Achievement

Students learn the fundamentals of general business administration, marketing, selling, advertising, and other related functions. They also prepare for a wide variety of marketing-related careers. The Marketing Management program is built on the ladder concept, whereby students can complete a Certificate of Achievement en route to the A.A. degree.

Student Learning Outcomes - upon completion, students will be able to:

- identify and distinguish the elements of the marketing mix for an organization in a given business environment.

1. Meet the requirements for this certificate level.
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:		**5**
ACCT 1A	Financial Accounting I (5)	
or ACCT 1AH	Financial Accounting I - HONORS (5)	
BUS 18	Business Law I (5)	
BUS 54	Business Mathematics (5)	
BUS 56	Human Relations in the Workplace (5)	
BUS 59	Promoting Your Business with Social Media (5)	
BUS 60	International Business Management (5)	
BUS 65	Leadership (5)	
BUS 70	Principles of E-Business (5)	
BUS 96	Principles of Management (5)	
	Total Units Required 24	

Marketing Management

A.A. Degree

Students pursuing an A.A. degree in Marketing Management prepare for a wide variety of marketing-related careers such as marketing events coordinator, retail sales manager, marketing communications associate, inside sales representative, sales specialist/coordinator, and sales support specialist. students learn the fundamentals of general business administration with an emphasis on marketing, advertising, selling, international business and management.

Student Learning Outcomes - upon completion, students will be able to:

- develop an appropriate marketing plan for an organization in a given business environment.

1. Meet the A.A./A.S. degree requirements.
2. Complete the following.

ACCT 1A	Financial Accounting I	5
or ACCT 1AH	Financial Accounting I - HONORS	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 96	Principles of Management	5
Complete a minimum of nine (9) units:		**9**
BUS 21	Business and Society (5)	
BUS 56	Human Relations in the Workplace (5)	
BUS 57	Human Resource Management (4)	
BUS 59	Promoting Your Business with Social Media (5)	
BUS 65	Leadership (5)	
BUS 70	Principles of E-Business (5)	
BUS 85	Business Communication (3)	
COMM 70	Effective Organizational Communication (5)	
or COMM 70H	Effective Organizational Communication - HONORS (5)	
Major	*Marketing Management*	*53*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

MASSAGE THERAPY

Massage Therapy

Certificate of Achievement

This Certificate of Achievement prepares students with the knowledge, skills and abilities necessary for entry-level massage therapist positions. Completion of this Certificate of Achievement meets the educational requirements to apply for the CAMTC certification. (The CAMTC will not accept online courses towards their certification.)

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate knowledge of the various systems of the body and pathologies of these systems that can contraindicate or benefit from massage.
- utilize the results of health intake forms and physical assessments to formulate and administer effective individualized massage treatments.

1. Meet the requirements for this certificate level.
2. Complete the following.

Students must present current First Aid and CPR cards to receive a certificate or degree in Massage Therapy.

BIOL 40A	Human Anatomy and Physiology (84 hours)	5
KNES 25A	Stretching (24 hours)	0.5
KNES 52	Physical Stress Management (24 hours)	2
MASG 50A	Introduction to Massage (72 hours)	4
MASG 50B	Intermediate Massage (60 hours)	3
MASG 50C	Sports Massage (60 hours)	3
MASG 50D	Advanced Massage Skills (72 hours)	4
MASG 51	Clinical Practicum in Massage Therapy (84 hours)	3

Complete a minimum of one (1) unit: 1
Note: Enrollment in these internship courses requires consent of the Instructor or Massage Program Coordinator.

MASG 54A	Massage Therapy Internship in Adapted Physical Education Laboratory (36 hours) (1)
MASG 54B	Massage Therapy Internship in Adapted Physical Education Laboratory (72 hours) (2)
MASG 54C	Massage Therapy Internship in Adapted Physical Education Laboratory (108 hours) (3)
MASG 56A	Sports Massage Internship (36 hours) (1)
MASG 56B	Sports Massage Internship (72 hours) (2)
MASG 56C	Sports Massage Internship (108 hours) (3)
	Total Units Required (516 hours min.)..... 25.5

California Massage Therapy Council (CAMTC) requires that all Massage (MASG) courses be taken at De Anza College and cannot be taken as an online or hybrid course.

Massage Therapy

Certificate of Achievement-Advanced

This Certificate of Achievement-Advanced builds on the instruction of the Certificate of Achievement and provides students training in advanced treatment modalities and fitness concepts and more experience administering therapeutic treatments in a variety of professional settings. Completion of this Certificate of Achievement-Advanced meets the educational requirements to apply for the NCBTMB certification. The certification allows a therapist to work within a majority of the United States. (The NCBTMB will not accept online courses towards their certification.)

Student Learning Outcomes - upon completion, students will be able to:

- integrate advanced modality and treatment concepts into their treatments.
- utilize advanced theories, methods and procedures to design and administer effective clinical treatments in a variety of professional settings with diverse populations.
- demonstrate increased physical strength and endurance to meet the rigors of the profession.

1. Meet the requirements for this certificate level.
2. Complete the following.

Students must present current First Aid and CPR cards to receive a certificate or degree in Massage Therapy.

BIOL 40A	Human Anatomy and Physiology (84 hours)	5
BIOL 40B	Human Anatomy and Physiology (84 hours)	5
KNES 25A	Stretching (24 hours)	0.5
KNES 46	Care and Prevention of Athletic Injuries (72 hours)	4
KNES 52	Physical Stress Management (24 hours)	2
MASG 50A	Introduction to Massage (72 hours)	4
MASG 50B	Intermediate Massage (60 hours)	3
MASG 50C	Sports Massage (60 hours)	3
MASG 50D	Advanced Massage Skills (72 hours)	4
MASG 51	Clinical Practicum in Massage Therapy (84 hours)	3
MASG 52	Table Shiatsu (72 hours)	4

Complete three (3) units: 3
One (1) unit must be in Adapted Physical Education or Sports Massage.
Note: Enrollment in these internship courses requires consent of the Instructor or Massage Program Coordinator.

MASG 54A	Massage Therapy Internship in Adapted Physical Education Laboratory (36 hours) (1)
MASG 54B	Massage Therapy Internship in Adapted Physical Education Laboratory (72 hours) (2)
MASG 54C	Massage Therapy Internship in Adapted Physical Education Laboratory (108 hours) (3)
MASG 55A	Massage Therapy Teacher's Assistant Internship (36 hours) (1)
MASG 55B	Massage Therapy Teacher's Assistant Internship (72 hours) (2)
MASG 55C	Massage Therapy Teacher's Assistant Internship (108 hours) (3)
MASG 56A	Sports Massage Internship (36 hours) (1)
MASG 56B	Sports Massage Internship (72 hours) (2)
MASG 56C	Sports Massage Internship (108 hours) (3)

Complete a minimum of four (4) units: 4

BUS 55	Introduction to Entrepreneurship (60 hours) (5)
KNES 12H	Tai Chi (24 hours) (0.5)
KNES 50A	Orientation to Lifetime Fitness (24 hours) (2)
KNES 50AL	Lifetime Wellness and Fitness Center Laboratory (36 hours) (1)
KNES 77*	Special Projects in Physical Education (18 hours) (0.5)
KNES 77X*	Special Projects in Physical Education (36 hours) (1)
KNES 77Y*	Special Projects in Physical Education (54 hours) (1.5)
MASG 53	Introduction to Chair Massage (60 hours) (3)
NUTR 62	Nutrition and Athletic Performance (24 hours) (2)
	Total Units Required (876 hours min.)..... 44.5

**Special Projects in Physical Education for the Massage Therapy program needs approval from the Massage Program Coordinator.*

California Massage Therapy Council (CAMTC) requires that all Massage (MASG) courses be taken at De Anza College and cannot be taken as an online or hybrid course.

Massage Therapy

A.A. Degree

This A.A. degree builds on the instruction of the Certificate of Achievement-Advanced and provides students with additional knowledge, hands-on experience and fitness training to help them succeed as a massage therapist. Completion of this A.A. degree meets the educational requirements to apply for the CAMTC and/or NCBTMB certification. (The CAMTC and NCBTMB will not accept online courses towards their certification.)

Student Learning Outcomes - upon completion, students will be able to:

- integrate advanced modality and treatment concepts into their treatments.
- utilize advanced theories, methods and procedures to design and administer effective clinical treatments in a variety of professional settings with diverse populations.
- demonstrate increased physical strength and endurance to perform consecutive massage treatments without difficulty.
- demonstrate effective entrepreneurial and oral and written communication skills to increase success in their careers.

1. Meet the A.A./A.S. degree requirements.
2. Complete the following.

Students must present current First Aid and CPR cards to receive a certificate or degree in Massage Therapy.

BIOL 40A	Human Anatomy and Physiology (84 hours)	5
BIOL 40B	Human Anatomy and Physiology (84 hours)	5
KNES 25A	Stretching (24 hours)	0.5
KNES 46	Care and Prevention of Athletic Injuries (72 hours)	4
KNES 52	Physical Stress Management (24 hours)	2
MASG 50A	Introduction to Massage (72 hours)	4
MASG 50B	Intermediate Massage (60 hours)	3
MASG 50C	Sports Massage (60 hours)	3
MASG 50D	Advanced Massage Skills (72 hours)	4
MASG 51	Clinical Practicum in Massage Therapy (84 hours)	3
MASG 52	Table Shiatsu (72 hours)	4
MASG 53	Introduction to Chair Massage (60 hours)	3

Complete four (4) units: 4
One (1) unit must be in Adapted Physical Education or Sports Massage.
Note: Enrollment in these internship courses requires consent of the Instructor or Massage Program Coordinator.

MASG 54A	Massage Therapy Internship in Adapted Physical Education Laboratory (36 hours) (1)
MASG 54B	Massage Therapy Internship in Adapted Physical Education Laboratory (72 hours) (2)
MASG 54C	Massage Therapy Internship in Adapted Physical Education Laboratory (108 hours) (3)
MASG 55A	Massage Therapy Teacher's Assistant Internship (36 hours) (1)
MASG 55B	Massage Therapy Teacher's Assistant Internship (72 hours) (2)
MASG 55C	Massage Therapy Teacher's Assistant Internship (108 hours) (3)
MASG 56A	Sports Massage Internship (36 hours) (1)
MASG 56B	Sports Massage Internship (72 hours) (2)
MASG 56C	Sports Massage Internship (108 hours) (3)

Complete a minimum of 7.5 units: 7.5

BIOL 40C	Human Anatomy and Physiology (84 hours) (5)
BUS 55	Introduction to Entrepreneurship (60 hours) (5)
KNES 12H	Tai Chi (24 hours) (0.5)
KNES 50A	Orientation to Lifetime Fitness (24 hours) (2)
KNES 50AL	Lifetime Wellness and Fitness Center Laboratory (36 hours) (1)
KNES 77*	Special Projects in Physical Education (18 hours) (0.5)
KNES 77X*	Special Projects in Physical Education (36 hours) (1)
KNES 77Y*	Special Projects in Physical Education (54 hours) (1.5)
NUTR 62	Nutrition and Athletic Performance (24 hours) (2)

**Special Projects in Physical Education for the Massage Therapy program needs approval from the Massage Program Coordinator.*

California Massage Therapy Council (CAMTC) requires that all Massage (MASG) courses be taken at De Anza College and cannot be taken as an online or hybrid course.

Major	*Massage Therapy*	*52*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required (1,020 hours)	**90**

MATHEMATICS

Associate in Science in Mathematics for Transfer

A.S.-T. Degree

The role of mathematics is vital and growing, providing solutions to problems in a wide range of sciences: social, biological, physical, behavioral and management. As a whole, mathematics is necessary for understanding and expressing ideas in science, engineering and human affairs. Mathematics is integrally related to computer science and statistics, which have proven invaluable to advancing research and modern industrial technology. The curriculum for the Associate in Science in Mathematics for Transfer academically prepares the student to transfer into the CSU system to complete a baccalaureate degree in a similar major. The Mathematics major consists of courses appropriate for an Associate in Science in Mathematics for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline, and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). The Associate in Science in Mathematics for Transfer is intended for students who plan to complete a bachelor's degree in Mathematics at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept

this degree will be required to complete no more than 60 (semester) units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Student Learning Outcomes - upon completion, students will be able to:

- be prepared for successful entry into upper division courses in mathematics.

1. Meet the A.A.-T./A.S.-T. degree requirements for transfer.
2. Complete the following.

MATH 1A	Calculus	5
or MATH 1AH	Calculus - HONORS	5
MATH 1B	Calculus	5
or MATH 1BH	Calculus - HONORS	5
MATH 1C	Calculus	5
or MATH 1CH	Calculus - HONORS	5
MATH 1D	Calculus	5
or MATH 1DH	Calculus - HONORS	5
MATH 2A	Differential Equations	5
MATH 2B	Linear Algebra	5
Major	*Mathematics for Transfer*	*30*
Transfer GE	*CSU GE or IGETC for CSU pattern (47-61 units)*	
Electives	*CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90*	
	Total Units Required 90	

MEDICAL LABORATORY TECHNOLOGY

Clinical Laboratory Assistant

Certificate of Achievement

The Clinical Laboratory Assistant Certificate of Achievement is available to students who have successfully completed the four required courses of study. The Certificate of Achievement is a 12-month course of study that prepares students for a career as a Clinical Laboratory Assistant through classroom study. Graduates of the certificate program have a recognized skill set for jobs as a laboratory assistant and opportunity for advancement.

Student Learning Outcomes - upon completion, students will be able to:

- qualify and be eligible for jobs as a clinical laboratory assistant.

1. Meet the requirements for this certificate level.
2. Complete the following.

HTEC 80	Clinical Hematology Laboratory	1.5
HTEC 80A	Clinical Hematology Lecture	4.5
HTEC 83	Clinical Microbiology Laboratory	1.5
HTEC 83A	Clinical Microbiology Lecture	4.5
HTEC 84	Clinical Immunology/Immunohematology Laboratory	1.5
HTEC 84A	Clinical Immunology/Immunohematology Lecture	4.5
HTEC 85A	Clinical Chemistry I Laboratory	1.5
HTEC 85C	Clinical Chemistry I Lecture	4.5
	Total Units Required 24	

Medical Laboratory Technology

Certificate of Achievement-Advanced

Note: to receive the Medical Laboratory Technology Certificate of Achievement-Advanced, students must have an A.A./A.S. degree or higher.

The Medical Laboratory Technician (MLT) Certificate of Achievement-Advanced is available to students who have an associate or higher degree from an accredited U.S. institution or the evaluated equivalent from foreign study. The Certificate of Achievement-Advanced is a 15-month course of study (including one summer) that prepares students for a career as a MLT through classroom study and supervised clinical training. The MLT program provides students with a quality education that complies with the established standards and guidelines of an accredited laboratory training program. Graduates of the certificate program are eligible to sit for a state approved national MLT certification examination.

Student Learning Outcomes - upon completion, students will be able to:

- pass a state approved national medical laboratory certification exam.

1. Meet the requirements for this certificate level.
2. Complete the following prerequisites and requirements with a "C" grade or better.

Prerequisites:
State of California Phlebotomy Certification

Complete the following:		**16**
BIOL 26	Introductory Microbiology	6
CHEM 30A	Introduction to General, Organic and Biochemistry I	5
CHEM 30B	Introduction to General, Organic and Biochemistry II	5
Complete one (1) sequence:		**15-18**
BIOL 6A	Form and Function in the Biological World (6)	
or BIOL 6AH	Form and Function in the Biological World - HONORS (6)	
BIOL 6B	Cell and Molecular Biology (6)	
BIOL 6C	Ecology and Evolution (6)	
or BIOL 6CH	Ecology and Evolution - HONORS (6)	
or		
BIOL 40A	Human Anatomy and Physiology (5)	
BIOL 40B	Human Anatomy and Physiology (5)	
BIOL 40C	Human Anatomy and Physiology (5)	
	Prerequisite Units Required..... 31-34	

Requirements:		**57**
HTEC 80A	Clinical Hematology Lecture	4.5
HTEC 80	Clinical Hematology Laboratory	1.5
HTEC 81A	Clinical Urinalysis Lecture	1.5
HTEC 81	Clinical Urinalysis Laboratory	0.75
HTEC 82A	Clinical Coagulation Lecture	1.5
HTEC 82	Clinical Coagulation Laboratory	0.75
HTEC 83A	Clinical Microbiology Lecture	4.5
HTEC 83	Clinical Microbiology Laboratory	1.5
HTEC 84A	Clinical Immunology/Immunohematology Lecture	4.5
HTEC 84	Clinical Immunology/Immunohematology Laboratory	1.5
HTEC 85C	Clinical Chemistry I Lecture	4.5
HTEC 85A	Clinical Chemistry I Laboratory	1.5
HTEC 85D	Clinical Chemistry II Lecture	4.5
HTEC 85B	Clinical Chemistry II Laboratory	1.5
HTEC 180	Clinical Hematology/Urinalysis/Coagulation Practicum	6
HTEC 183	Clinical Microbiology Practicum	6
HTEC 184	Clinical Immunology/Immunohematology Practicum	4.5
HTEC 185	Clinical Chemistry Practicum	6
	Total Units Required, Incl. Prerequisites	**88-91**

Medical Laboratory Technology

A.A. Degree

The A.A. degree in Medical Laboratory Technology is a 24-month course of study (including summers) that prepares students for a career as a medical laboratory technician through classroom study and supervised clinical training. The MLT Program provides students with a quality education that complies with the established standards and guidelines of an accredited laboratory training program. Graduates of the degree program are eligible to sit for a state-approved national MLT certification examination.

Student Learning Outcomes - upon completion, students will be able to:

- pass a state approved national medical laboratory certification exam.

For the major, complete the same prerequisites and requirements listed for the Medical Laboratory Technology Certificate of Achievement-Advanced (see above), and meet De Anza's A.A./A.S. degree requirements.

MUSIC

Music

A.A. Degree

This A.A. degree program provides a foundation in music for students interested in a career in the musical entertainment industry or pursuing a baccalaureate degree in Music. Students are encouraged to take private instruction (not provided by the college) each term along with classes in their specialization.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate, through successful public performance, a synthesis of technique, memory, musicality and stage presence in both group and solo presentations.
- demonstrate proficiency equivalent to national lower division curriculum standards in music literacy for all historical periods, ear training and keyboard harmony.
- distinguish musical cultures, historical periods, forms and composers from each other while demonstrating an understanding of the roles of music in human culture.
- produce, notate, and perform music using contemporary technologies.

1. Meet the A.A./A.S. degree requirements.
2. Complete the following.

MUSI 3A	Comprehensive Musicianship (First Quarter)	4
MUSI 3B	Comprehensive Musicianship (Second Quarter)	4
MUSI 3C	Comprehensive Musicianship (Third Quarter)	4
MUSI 4A	Comprehensive Musicianship II (First Quarter)	4
MUSI 4B	Comprehensive Musicianship II (Second Quarter)	4
MUSI 4C	Comprehensive Musicianship II (Third Quarter)	4

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.

NOTE: MUSI 3A and 4A offered Fall quarter only; MUSI 3B and 4B offered Winter quarter only; MUSI 3C and 4C offered Spring quarter only.

Complete one (1) course:		**4**
MUSI 1A	Introduction to Music: Music in Western Cultures (4)	
MUSI 1B	Introduction to Music: Jazz Styles (4)	
MUSI 1C	Introduction to Music: World Music in America (4)	
MUSI 1D	Introduction to Music: Rock - From Roots to Rap (4)	
MUSI 1E	Introduction to Music: Latin America and the Caribbean (4)	

Complete a minimum of 12 units:		**12**
MUSI 15A	Guitar Ensemble I (2)	
MUSI 15B	Guitar Ensemble II (2)	
MUSI 20	De Anza Chorale (2)	
MUSI 21	Vintage Singers (2)	
MUSI 22	Early Music Study and Performance (2)	
MUSI 31	Chamber Orchestra (2)	
MUSI 34	Jazz Ensemble (2)	
MUSI 41 series	MUSI 41V, 41W Rehearsal and Performance (1.5-2)	
MUSI 42	Concert Band (2)	
MUSI 45	Jazz Combos (2)	

Complete a minimum of six (6) units:		**6**
MUSI 5A	Modal Counterpoint (3)	
MUSI 8	Intermediate Electronic Music (3)	
MUSI 9A	Jazz Piano I (1.5)	
MUSI 9B	Jazz Piano II (1.5)	
MUSI 9C	Jazz Piano III (1.5)	
MUSI 12A	Class Piano I (1.5)	
MUSI 12B	Class Piano II (1.5)	
MUSI 12C	Class Piano III (1.5)	
MUSI 13A	Beginning Singing I (1.5)	
MUSI 13B	Beginning Singing II (1.5)	
MUSI 13C	Beginning Singing III (1.5)	
MUSI 14A	Classical Guitar I (1.5)	
MUSI 14B	Classical Guitar II (1.5)	
MUSI 14C	Classical Guitar III (1.5)	
MUSI 14D	Classical Guitar IV (1.5)	
MUSI 16A	Beginning Acoustic Guitar (1.5)	
MUSI 16B	Jazz, Blues and Popular Guitar (1.5)	
MUSI 18A	Intermediate Piano I (1.5)	
MUSI 18B	Intermediate Piano II (1.5)	
MUSI 18C	Intermediate Piano III (1.5)	
MUSI 25	Applied Music (1)	
MUSI 32A	Jazz Solo Voice I (1.5)	
MUSI 32B	Jazz Solo Voice II (1.5)	
MUSI 44A	Composition and Arranging - Level I (1.5)	
MUSI 48A	Jazz Improvisation I (1.5)	
MUSI 48B	Jazz Improvisation II (1.5)	
MUSI 48C	Jazz Improvisation III (1.5)	
MUSI 51	Introduction to Electronic Music (3)	
MUSI 53	Music Business (3)	
MUSI 58A	Beginning African and African-Influenced Percussion and Rhythms (1.5)	
MUSI 58B	Intermediate African and African-Influenced Percussion and Rhythms (1.5)	
MUSI 77 series	MUSI 77, 77X, 77Y Special Projects in Music (1-3)	
Major	*Music*	*46*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

NURSING

LVN 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 director of the Nursing Program. Prior clinical experience in an acute setting will influence student's placement in the program. Admission to the program depends on space availability. The majority of courses are held in the daytime. Current California LVN license and IV certification is required.

Graduates of this program are eligible to take the California State Board Examination for licensing (NCLEX-RN). Students are admitted throughout the year as advanced placements. Once admitted, the program is at least three (3) quarters in length (not including prerequisites).

Student Learning Outcomes - upon completion, students will be able to:

- take the professional licensure exam for Registered Nurse (NCLEX).
- provide competent nursing care as a novice RN in multiple health care settings.

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.
- 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.
- A minimum 75% academic record calculation using the Chancellor's Formula (see the Nursing Program web site).
- Passing result on the Admission Assessment Exam.
- Social Security card allowing employment in the U.S.

Prerequisites:		**9**
These two (2) prerequisites or their equivalents must be completed with a "C" grade or better:		
MATH 114	College Math Preparation Level 3: Intermediate Algebra	5

Complete MATH 114, its equivalent or higher level mathematics, or get a qualifying score for MATH 114 on De Anza's mathematics assessment test.

Complete one (1) course:		**4**
ANTH 2	Cultural Anthropology (4)	
or ANTH 2H	Cultural Anthropology - HONORS (4)	
SOC 1	Introduction to Sociology (4)	

These nine (9) prerequisites or their equivalents must be completed with a "C" grade or better.		**33**
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
PSYC 1	General Psychology	4
PSYC 14	Developmental Aspects of Psychology	4

Complete one (1) course:		**5**
ESL 5^	Advanced Composition and Reading (5)	
EWRT 1A	Composition and Reading (5)	
or EWRT 1AH	Composition and Reading - HONORS (5)	

Complete one (1) course: **5**

COMM 1	Public Speaking (5)
or COMM 1H	Public Speaking - HONORS (5)
COMM 10	Fundamentals of Oral Communication (5)
or COMM 10H	Fundamentals of Oral Communication - HONORS (5)

**Course must be completed within seven (7) years of nursing program admission screening.*

^ESL 5 restricted to students whose native language is not English.

Requirements:
Admitted students complete the major courses and the Nursing General Education requirements to earn the degree.

Major Requirements: **16**
Complete with a "C" grade or better:

NURS 85	Advanced Medical-Surgical Concepts	2
NURS 85A	Psychiatric/Mental Health Nursing (Theory)	2
NURS 85AL	Psychiatric/Mental Health Nursing (Clinical)	2.5
NURS 85L	Advanced Medical-Surgical Clinical	2.5
NURS 86	Leadership/Management in Nursing	2
NURS 86L	Leadership/Management Clinical Component	5
	Total Units Required, Incl. Prerequisites	**68**

Recommended
NURS 152, 154

Fewer or more major courses from the RN curriculum may be required at the discretion of the Director of Nursing depending on the student's previous education and experience.

Nursing A.S. Degree General Education Requirements
Complete with a minimum 2.0 GPA:
- One (1) course from GE Area C1 - Arts (4 units)
- One (1) course from GE Area C2 - Humanities (4 units)
- One (1) unit from GE Area E in P E or PEA activities
- One (1) Intercultural Studies course taken in Area C or D

Note: A.S. Degree General Education Areas A, B, and D are satisfied through completion of the prerequisites and major courses.

See the Nursing Program web page at www.deanza.edu/nursing for application guidelines and materials.

Registered Nurse (RN)

A.S. Degree

Admission to the program is limited. The RN Program starts every quarter except summer quarter and it is six (6) quarters in length. Nursing classes are generally not offered in the summer. The majority of courses are held in the daytime.

The Associate Degree Nursing program is approved by the California Board of Registered Nursing. The RN graduate is eligible to take the California State Board Examination for licensing (NCLEX-RN). Students are admitted to this program during the fall, winter and spring quarters. Once admitted, the program is six (6) quarters in length (not including prerequisites).

Student Learning Outcomes - upon completion, students will be able to:
- take the professional licensure exam for Registered Nurse (NCLEX).
- provide competent nursing care as a novice RN in multiple health care settings.

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.
- 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.
- A minimum 75% academic record calculation using the Chancellor's Formula (see the Nursing Program web site).
- Passing result on the Admission Assessment Exam.
- Social Security card allowing employment in the U.S.

Prerequisites: **7**
The 11 prerequisites in this section will be used for screening and admission into the RN program.

These two (2) prerequisites must be completed with a "C" grade or better:

NURS 50	Career Opportunities in Nursing (must be completed at De Anza)	2
MATH 114	College Math Preparation Level 3: Intermediate Algebra	5

Complete MATH 114, its equivalent or higher level mathematics, or get a qualifying score for MATH 114 on De Anza's mathematics assessment test.

These nine (9) prerequisites or their equivalents must be completed with a "C" grade or better. **33**

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
PSYC 1	General Psychology	4
PSYC 14	Developmental Aspects of Psychology	4

Complete one (1) course: **5**

ESL 5^	Advanced Composition and Reading (5)
EWRT 1A	Composition and Reading (5)
or EWRT 1AH	Composition and Reading - HONORS (5)

Complete one (1) course: **5**

COMM 1	Public Speaking (5)
or COMM 1H	Public Speaking - HONORS (5)
COMM 10	Fundamentals of Oral Communication (5)
or COMM 10H	Fundamentals of Oral Communication - HONORS (5)

**Course must be completed within seven (7) years of nursing program admission screening.*

^ESL 5 restricted to students whose native language is not English.

Prerequisite/Co-requisite: **4**
Complete one (1) of the following or its equivalent with a "C" grade or better and before or during the first quarter of the RN Program.

ANTH 2	Cultural Anthropology (4)
or ANTH 2H	Cultural Anthropology - HONORS (4)
SOC 1	Introduction to Sociology (4)

Prerequisite Units Required.....54

Requirements:
Admitted students complete the major courses and the Nursing General Education requirements to earn the degree.

Major Requirements: **59**
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	1.5
NURS 82	Acute Fundamentals/Medical Surgical I	4
NURS 82L	Acute Fundamentals/Medical Surgical I (Clinical)	5
NURS 82P	Pharmacology II	1.5
NURS 83	Perinatal Nursing	2
NURS 83L	Perinatal Nursing (Clinical)	2.5
NURS 83A	Pediatric Nursing	2
NURS 83AL	Pediatric Nursing (Clinical)	2.5
NURS 83P	Pharmacology III	1.5
NURS 83PL	Pharmacology III Laboratory	0.5
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 Clinical	2.5
NURS 85A	Psychiatric/Mental Health Nursing (Theory)	2
NURS 85AL	Psychiatric/Mental Health Nursing (Clinical)	2.5
NURS 86	Leadership/Management in Nursing	2
NURS 86L	Leadership/Management Clinical Component	5
	Total Units Required, Incl. Prerequisites	**113**

Recommended
NURS 151, 152, 153, 154

Nursing A.S. Degree General Education Requirements
Complete with a minimum 2.0 GPA:
- One (1) course from GE Area C1 - Arts (4 units)
- One (1) course from GE Area C2 - Humanities (4 units)
- One (1) unit from GE Area E in P E or PEA activities
- One (1) Intercultural Studies course taken in Area C or D

Note: A.S. Degree General Education Areas A, B, and D are satisfied through completion of the prerequisites and major courses.

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 Director of Nursing.

For LVN students transitioning to the RN Program, see the LVN Transition to RN curriculum.

See the Nursing Program web page at www.deanza.edu/nursing for application guidelines and materials.

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.

Paralegal Studies

Certificate of Achievement-Advanced
A.A. Degree

The Paralegal Studies Certificate of Achievement-Advanced and A.A. degree programs prepare students to work in the legal field as paralegals under the supervision of attorneys. Paralegal duties include performing factual and legal research, drafting legal documents and correspondence, interviewing clients and witnesses, assisting attorneys in pretrial work, including document discovery and analysis, and at trials and hearings, organizing and maintaining case files and coordinating the use of technology in legal work.

Student Learning Outcomes - upon completion, students will be able to:

- evaluate, critique and analyze legal and factual information.
- synthesize and analyze legal and factual information through effective written and oral communication.
- compare and contrast the American and California legal systems within a global legal environment.
- research legally relevant facts from diverse source materials.
- assess the quality of information and utilize appropriate informational resources to evaluate a legal issue.

Certificate of Achievement-Advanced

For a Certificate of Achievement-Advanced, students must have an A.A./A.S. degree or higher, complete the required 48 units listed below for the Paralegal Studies A.A. degree, and meet the requirements for this certificate level.

A.A. Degree

1. Meet the A.A./A.S. degree requirements.
2. Complete the following.

PARA 67	Law Office Management for Paralegals	2
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 *also listed as ADMJ 95 and POLI 95*	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: 12

PARA 65 series	PARA 65W, 65X, 65Y, 65Z Current Paralegal Topics (1-4)
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 and Investigation (4)
PARA 98	Drafting Wills and Trusts (4)
PARA 99	California Probate Law and Procedures (4)

Complete a minimum of four (4) units below OR from the courses listed above (not already taken): 4

ADMJ 3	Concepts of Criminal Law (CP 2) (4) *also listed as PARA 3 and POLI 13*
ADMJ 11	Federal Courts and Constitutional Law (4) *also listed as PARA 11 and POLI 11*
ADMJ 54	Youth and the Law (4) *also listed as PARA 54 and SOC 54*
ADMJ 61	Criminal Investigation (4)
ADMJ 84	Forensic Science (4)
ADMJ 90A	Legal Aspects of Evidence (CP 4) (4) *also listed as PARA 90A*
BUS 18	Business Law I (5)
E S 6	Introduction to Environmental Law (4)
ICS 29	Cultural Pluralism and American Law and Justice (4) *also listed as ADMJ 29*
LIB 51	Business Resources on the World Wide Web (1)
PARA 25	Law and Social Change (4) *also listed as ADMJ 25*
PARA 64 series	PARA 64, 64X, 64Y, 64Z Paralegal Internship (1-4)
PARA 69	Paralegal Field Trips (1)
PARA 74A	Interviewing, Interrogation and Crisis Intervention (4) *also listed as ADMJ 74A and PSYC 74A*
PARA 75	Principles and Procedures of the Justice System (4) *also listed as ADMJ 75 and POLI 75*
REST 52A	Legal Aspects of Real Estate (4)
	Total Units Required 48

A.A. Degree

Major	*Complete the Cert. of Achievement-Advanced requirements*	*48*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

PHOTOGRAPHIC ARTS (FILM AND DIGITAL)

Photographic Arts (Film and Digital)

A.A. Degree

This A.A. degree provides a comprehensive foundation in contemporary and traditional methods of photography. Digital imaging, traditional processing and printing, alternative processes, lighting, history and the visual language of photography are studied. Emphasis is on personal expression through creative process and technical excellence.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate accomplished skill in both dry (digital) and wet (analog) darkroom methods.

- create photographs that visually communicate ideas and concepts while engaging in the practices, theories and materials of the medium.
- critically analyze and assess diverse historical and contemporary photographic works.
- present finished photographic works for peer, professional or academic review.
- express artistic concepts and intent in written and oral formats.
- evaluate and critique photographic artwork and receive criticism from others.

1. Meet the A.A./A.S. degree requirements.
2. Complete the following, starting with PHTG 1 and PHTG 4 first.

F/TV 20	Beginning Video Production	4
PHTG 1	Basic Photography	3
PHTG 4	Introduction to Digital Photography	3
PHTG 5	Intermediate Digital Photography	3
PHTG 21	Contemporary Trends in Photography	4

Complete two (2) courses: 6

PHTG 2	Intermediate Photography (3)
PHTG 3	Advanced Photography (3)
PHTG 54	Experimental Photography (3)
PHTG 57A	Commercial Lighting I (3)

Complete one (1) course: 4

ARTS 1A	Introduction to the Visual Arts (4)
ARTS 2D	History of Art: Europe and the United States from Post-Impressionism to the Present (4)
ARTS 2F	History of Art: Multicultural Arts in the United States (4) *also listed as ICS 5*
ARTS 3TE	Today's Art Scene (4)

Complete one (1) course: 4

ARTS 4A	Beginning Drawing (4)
ARTS 10A	Three-Dimensional Design (4)
ARTS 14A	Watercolor Painting I (4)
ARTS 15A	Acrylic Painting I (4)
ARTS 16A	Oil Painting I (4)
ARTS 18A	Ceramics (4)
ARTS 37A	Sculpture (4)

Complete a minimum of 12 units (not already taken): 12

ARTS 53	Introduction to Visual Technology (4)
ARTS 54	Visual Technology II (4)
ARTS 55A	Graphic Design-Communication I (4)
F/TV 2A	History of Cinema (1895-1950) (4)
F/TV 2B	History of Cinema (1950-Present) (4)
F/TV 23	Beginning TV Studio Production (4)
F/TV 26	Introduction to Film/Television Directing (4)
HUMI 1	Creative Minds (4)
or HUMI 1H	Creative Minds - HONORS (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 7	Exploring Visual Expression (4)
PHTG 52	Photography Production Laboratory (2)
PHTG 54	Experimental Photography (3)
PHTG 57A	Commercial Lighting I (3)
PHTG 57B	Commercial Lighting II (3)
PHTG 58A	Photographic Photoshop I (3)
PHTG 58B	Photographic Photoshop II (3)
PHTG 60	Using a Digital Camera (2)
PHTG 77	Special Projects in Photography (2)
PHTG 78Y	Special Topics in Photographic Studies (2)

Major	*Photographic Arts (Film and Digital)*	*43*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

POLITICAL SCIENCE

Associate in Arts in Political Science for Transfer

A.A.-T. Degree

The Political Science major consists of courses appropriate for an Associate in Arts in Political Science for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline, and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). The Associate in Arts in Political Science for Transfer is intended for students who plan to complete a bachelor's degree in Political Science at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 (semester) units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Student Learning Outcomes - upon completion, students will be able to:

- evaluate how political decisions are shaped by institutions and processes.
- assess the impact of political decisions on individuals and groups.
- demonstrate the capacity to critically analyze and apply political values.
- demonstrate the capacity to participate effectively in the political process.

1. Meet the A.A.-T./A.S.-T. degree requirements for transfer.
2. Complete the following.

POLI 1	American Government and Politics	5

Complete three (3) courses: 12-13

POLI 2	Comparative Politics (4)
POLI 3	International Relations (4)
POLI 5	Introduction to Political Thought and Theory (4)

PSYC 15	Basic Statistics and Research Methods in Social and Behavioral Sciences (4) *also listed as SOC 15*	
or MATH 10	Elementary Statistics and Probability (5)	
or MATH 10H	Elementary Statistics and Probability - HONORS (5)	

Complete three (3) courses below or from above (not already taken): 12

ADMJ 29	Cultural Pluralism and American Law and Justice (4) *also listed as ICS 29*	
ANTH 2	Cultural Anthropology (4)	
or ANTH 2H	Cultural Anthropology - HONORS (4)	
E S 1	Introduction to Environmental Studies (4)	
ECON 1	Principles of Macroeconomics (4)	
or ECON 1H	Principles of Macroeconomics - HONORS (4)	
ECON 2	Principles of Microeconomics (4)	
or ECON 2H	Principles of Microeconomics - HONORS (4)	
GEO 10	World Regional Geography (4)	
HIST 3C	World History from 1750 CE to the Present (4)	
or HIST 3CH	World History from 1750 CE to the Present - HONORS (4)	
ICS 4	Race, Ethnicity and Inequality (4)	
ICS 17	Critical Consciousness and Social Change (4)	
or ICS 17H	Critical Consciousness and Social Change - HONORS (4)	
ICS 55	Civic Leadership for Community Empowerment (4)	
POLI 15	Grassroots Democracy: Race, Politics and the American Promise (4) *also listed as ICS 25*	
POLI 16	Grassroots Democracy: Social Movements Since the 1960s (4) *also listed as ICS 36*	
POLI 17	Grassroots Democracy: Leadership and Power (4) *also listed as ICS 27*	
or POLI 17H	Grassroots Democracy: Leadership and Power - HONORS (4) *also listed as ICS 27H*	
SOC 5	Sociology of Globalization and Social Change (4) *also listed as INTL 8*	
Major	*Political Science for Transfer*	*29-30*
Transfer GE	*CSU GE or IGETC for CSU pattern (47-61 units)*	
Electives	*CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90*	
	Total Units Required 90	

PROFESSIONAL PHOTOGRAPHY (FILM AND DIGITAL)

Professional Photography (Film and Digital)

Certificate of Achievement

This Certificate of Achievement provides a foundation in the basics of photography including digital imaging, traditional processing and printing, and lighting. It also recognizes the importance of personal expression and the use of photography as a visual language. Students wishing to work in the industry, transfer, or complete an A.A. degree in Professional Photography should consider completing this certificate.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate basic skills in both wet and dry darkroom methods as well as beginning lighting techniques.
- create photographs that visually communicate ideas and concepts while engaging the practices, theories and materials of the medium.
- evaluate and critique imagery and receive criticism from others.

1. Meet the requirements for this certificate level.
2. Complete the following, starting with PHTG 1 and PHTG 4 first.

PHTG 1	Basic Photography	3
PHTG 4	Introduction to Digital Photography	3
PHTG 5	Intermediate Digital Photography	3
PHTG 57A	Commercial Lighting I	3
PHTG 58A	Photographic Photoshop I	3

Complete one (1) course: 3

PHTG 2	Intermediate Photography (3)
PHTG 3	Advanced Photography (3)
PHTG 54	Experimental Photography (3)
PHTG 57B	Commercial Lighting II (3)
PHTG 58B	Photographic Photoshop II (3)
	Total Units Required 18

Professional Photography (Film and Digital)

A.A. Degree

This A.A. degree program provides a comprehensive foundation in contemporary and traditional methods of photography. Digital imaging, processing and printing, lighting, history, business practices, and the visual language of photography are studied. Emphasis is on the photography techniques appropriate for those entering the industry today.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate advanced skills in both dry (digital) and wet (analog) darkroom methods as well as commercial studio techniques.
- create photographs that visually communicate ideas and concepts while engaging the practices, theories and materials of the medium.
- critically analyze and assess diverse historical and contemporary photographic works.
- present commercially viable photographic works for peer, professional or academic review.

- demonstrate understanding of basic business principles and relevant industry practices.
- communicate effectively in written and oral formats.

1. Meet the A.A./A.S. degree requirements.
2. Complete the following, starting with PHTG 1 and PHTG 4 first.

ARTS 53	Introduction to Visual Technology	4
BUS 56	Human Relations in the Workplace	5
F/TV 20	Beginning 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 57A	Commercial Lighting I	3
PHTG 58A	Photographic Photoshop I	3

Complete a minimum of 12 units: 12

F/TV 26	Introduction to Film/Television Directing (4)
PHTG 2	Intermediate Photography (3)
PHTG 3	Advanced Photography (3)
PHTG 7	Exploring Visual Expression (4)
PHTG 21	Contemporary Trends in Photography (4)
PHTG 52	Photography Production Laboratory (2)
PHTG 54	Experimental Photography (3)
PHTG 57B	Commercial Lighting II (3)
PHTG 58B	Photographic Photoshop II (3)
PHTG 60	Using a Digital Camera (2)
PHTG 77	Special Projects in Photography (2)
PHTG 78Y	Special Topics in Photographic Studies (2)

Major	*Professional Photography (Film and Digital)*	*44*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

Recommended
ARTS 8
BUS 10, 55
HUMI 1, 1H, 2
Other Photography courses

PROJECT MANAGEMENT PRACTITIONER

Project Management Practitioner

Certificate of Achievement

This Certificate of Achievement is designed for individuals who want to become project managers in their respective industries. Project Management is an important responsibility as more organizations use teams and project-based methods to get work done. Using a practicum-based approach, students apply the Project Management Book of Knowledge (PMBOK) to develop skills to enhance teamwork and communication, and project management skills to balance scope, quality, budget and scheduling for each project. This certificate program introduces students to a career in project management and further prepares professionals who are already working in the field.

Student Learning Outcomes - upon completion, students will be able to:

- manage projects by applying Project Management Theory as defined by the Project Management Institute's (PMI) Project Management Book of Knowledge (PMBOK).
- lead the creation of a project plan for an organization's large-scale project with a large budget.
- apply risk management techniques to a project to balance scope, quality, budget, scheduling and team morale.
- write a vendor solicitation plan and use a collaborative approach for selecting vendors.
- successfully manage a vendor through a project's completion while providing all project participants with a clear picture of scope, quality, budget and schedule.

1. Meet the requirements for this certificate level.
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

Complete one (1) course: 3-4.5

CIS 79	Managing Technology Projects (4.5)
CIS 80A	Process Management (3)
CIS 95E	CAPM and PMP Exam Preparation (4)
CIS 95F	Managing Cloud Projects (4)
CIS 95G	Agile Project Management - A Practicum (4)
	Total Units Required 19-20.5

REAL ESTATE

Real Estate

Certificate of Achievement
A.A. Degree

The Certificate of Achievement and A.A. degree in Real Estate provide the student with a thorough understanding of the California residential real estate market from a buyer's, seller's and real estate professional's perspective. In addition, students completing the program meet the minimum requirements to sit for the California Real Estate Sales License exam.

Student Learning Outcomes - upon completion, students will be able to:

- demonstrate knowledge of how real property is described, acquired, appraised, financed, encumbered and leased and how title to real property is held in California.
- demonstrate knowledge of the risks, returns, legal issues and ethical issues involved in the purchase, holding and sale of California real estate.
- qualify to take the California Department of Real Estate salesperson examination.

Certificate of Achievement

1. Meet the requirements for this certificate level.
2. Complete the following.

REST 50	Real Estate Principles	4
REST 51	Real Estate Practices	4
REST 52A	Legal Aspects of Real Estate	4
REST 53	Real Estate Finance	4
REST 61	Real Estate Investments	4

Complete a minimum of five (5) units:		**5**
ACCT 1A	Financial Accounting I (5)	
or ACCT 1AH	Financial Accounting I - HONORS (5)	
ACCT 1B	Financial Accounting II (5)	
or ACCT 1BH	Financial Accounting II - HONORS (5)	
ACCT 1C	Managerial Accounting (5)	
or ACCT 1CH	Managerial Accounting - HONORS (5)	
BUS 10	Introduction to Business (5)	
BUS 18	Business Law I (5)	
BUS 21	Business and Society (5)	
BUS 58	The Business Plan (4)	
BUS 59	Promoting Your Business with Social Media (5)	
BUS 90	Principles of Marketing (5)	
	Total Units Required 25	

A.A. Degree

1. Meet the A.A./A.S. degree requirements.
2. Complete the following.

REST 50	Real Estate Principles	4
REST 51	Real Estate Practices	4
REST 52A	Legal Aspects of Real Estate	4
REST 53	Real Estate Finance	4
REST 61	Real Estate Investments	4

Complete a minimum of 25 units:		**25**
ACCT 1A	Financial Accounting I (5)	
or ACCT 1AH	Financial Accounting I - HONORS (5)	
ACCT 1B	Financial Accounting II (5)	
or ACCT 1BH	Financial Accounting II - HONORS (5)	
ACCT 1C	Managerial Accounting (5)	
or ACCT 1CH	Managerial Accounting - HONORS (5)	
BUS 10	Introduction to Business (5)	
BUS 18	Business Law I (5)	
BUS 21	Business and Society (5)	
BUS 58	The Business Plan (4)	
BUS 59	Promoting Your Business with Social Media (5)	
BUS 90	Principles of Marketing (5)	
Major	*Real Estate*	*45*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when major units plus GE units total is less than 90*	
	Total Units Required 90	

For more program information see the California Department of Real Estate Web site at www.dre.ca.gov.

SOCIOLOGY

Associate in Arts in Sociology for Transfer

A.A.-T. Degree

The Sociology major consists of courses appropriate for an Associate in Arts in Sociology for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline, and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). The Associate in Arts in Sociology for Transfer is intended for students who plan to complete a bachelor's degree in Sociology at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 (semester) units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Student Learning Outcomes - upon completion, students will be able to:

- apply the sociological imagination to analyze and evaluate real world situations and problems.
- demonstrate the above capacity (first outcome) in written or oral communication.

1. Meet the A.A.-T./A.S.-T. degree requirements for transfer.
2. Complete the following.

SOC 1	Introduction to Sociology	4
Complete two (2) courses:		**8**
SOC 14	The Process of Social Research (4)	
SOC 15	Basic Statistics and Research Methods in Social and Behavioral Sciences (4) *also listed as PSYC 15*	
SOC 20	Social Problems (4)	
Complete three (3) courses:		**12**
ICS 4	Race, Ethnicity and Inequality (4)	
PSYC 8	Introduction to Social Psychology (4)	
SOC 28	Sociology of Women and Men (4) *also listed as WMST 28*	
SOC 29	Sociology of Structural Racism in the United States (4)	
SOC 35	Marriage, Family, and Intimate Relationships (4)	
Complete one (1) course:		**4**
GEO 10	World Regional Geography (4)	
PSYC 1	General Psychology (4)	
SOC 51	Women in Crime (4) *also listed as ADMJ 51*	
SOC 54	Youth and the Law (4) *also listed as ADMJ 54 and PARA 54*	
SOC 73	Crime and Criminology (4) *also listed as ADMJ 73*	

Major	*Sociology for Transfer*	*28*
Transfer GE	*CSU GE or IGETC for CSU pattern (47-61 units)*	
Electives	*CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90*	
	Total Units Required	**90**

WOMEN'S STUDIES

NEW

Women's Studies

Certificate of Achievement

The Certificate of Achievement in Women's Studies prepares students to be well-informed community leaders, agents of change in the workplace, and responsible participants in civic life in general, especially in spaces and circumstances that directly impact women and members of the LGBTQ community. Students completing this certificate are prepared to transfer their credits to universities that emphasize Women's Studies and civic engagement, work as an entry-level community organizer or as a staff person at a non-profit organization that serves women or members of the LGBTQ community. Students who plan to pursue a transfer degree can use the skills obtained to analyze the social forces at work in, and to take leadership in, their areas of work or study. Campuses that offer a baccalaureate major or related majors include: University of California, Santa Barbara, University of California, Berkeley, and University of California, Riverside.

Student Learning Outcomes - upon completion, students will be able to:

- analyze the social processes that foster inequality and disempowerment for women, women of color, and members of the LGBTQ community, as well as those social processes that challenge inequality and lead to empowerment of those same populations.
- analyze the ways that social processes are amenable to transformation through strategic planning and constituent mobilization.
- apply leadership skills, such as group facilitation, strategic planning, consensus- building and generating buy-in from community stakeholders, with the aim of fostering social justice and empowerment, particularly for women and members of the LGBTQ community.

1. Meet the requirements for this certificate level.
2. Complete the following.

WMST 1	Introduction to Women's Studies	4
WMST 8	Women of Color in the USA	4
Complete five (5) courses:		**16**
ICS 26	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer Studies (4)	
WMST 3C	Women and Art (4) *also listed as ARTS 3TC*	
WMST 9	Women in American History (4) *also listed as HIST 9*	
or WMST 9H	Women in American History - HONORS (4) *also listed as HIST 9H*	
WMST 12	Psychology of Gender (4) *also listed as PSYC 12*	
WMST 21	Women in Literature (4) *also listed as ELIT 21*	
WMST 22	Asian American Pacific Islander Women (4)	
WMST 24	Women and Gender in Global Perspectives (4)	
WMST 25	Introduction to Black Feminism (4)	
WMST 26	La Mujer: Latina Life and Experience (4)	
WMST 27	Women and Gendered Violence (4)	
WMST 28	Sociology of Women and Men (4) *also listed as SOC 28*	
WMST 29	Masculinities in U.S. Culture and Society (4)	
WMST 31	Women and Popular Culture (4)	
WMST 49	Women and Philosophy (4) *also listed as PHIL 49*	
	Total Units Required	**24**

COURSE NUMBERING SYSTEM

GENERAL GUIDELINES FOR COURSES NUMBERED

1-49 Transferable to UC
(See information on limitations below.)
1-99 Transferable to CSU
1-99 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 transfer credit is subject to change.

Visit **www.ASSIST.org** for updates. The 2017-2018 UC transferable course list is scheduled to be available on the ASSIST website in October 2017.

2016-2017 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 UC.

ADMJ/PARA	ADMJ 11 and ADMJ/PARA 25 combined: maximum credit, one course
BIOL	No credit for BIOL 10, 10H or 11 if taken after 6A, 6AH, 6B 6C, or 6CH
BUS	BUS 10 and 21 combined: maximum credit, one course
CHEM	CHEM 10, 25 and 30A combined: maximum credit, one course No credit for CHEM 10, 25 and 30A if taken after 1A
CIS	Student may receive credit for either (CIS 22A and 22B) or CIS 27, but not both Student may receive credit for either (CIS 36A and 36B) or CIS 35A, but not both
COMM	COMM 10, 10H, 15 and 15H combined: maximum credit, one course
ESCI	ESCI 19, 20, 21 and 30 combined: maximum credit, three courses
F/TV	F/TV 2A and 2AW combined: maximum credit, one course F/TV 2B and 2BW combined: maximum credit, one course F/TV 2C and 2CW combined: maximum credit, one course F/TV 20 and 22 combined: maximum credit, one course
FREN	FREN 2 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
KNES/PE/PEA	UC grants a maximum of six (6) quarter units of credit for appropriate Kinesiology and 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 32B, 32F, 32G, 32H, 32HX, 32I, 32IX, 32J, 32JX, 32K, 32L, 32LX, 32M, 32MX, 32N, 32P, 32S, 32SX, 32T, 32W
KORE	KORE 2 corresponds to two years of high school study
MAND	MAND 2 corresponds to two years of high school study
MATH	MATH 1A, 1AH and 12 combined: maximum credit, one course MATH 10, 10H, 17, 23, PSYC 15 and SOC 15 combined: maximum credit, one course MATH 17 Students must complete both Statway courses Maximum credit limitation: 6 quarter units/ 4 semester units; UC transferable for students applying to UC for Fall 2016 and later MATH 41, 42 and 43 combined: maximum credit, 7.5 quarter units/5 semester units
MUSI	No credit for MUSI 10A if taken after 3A PERS PERS 2 corresponds to two years of high school study
PHYS	PHYS 2A, 2B, 2C, and 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 4A
PSYC	PSYC 15, MATH 10, 10H, 17, 23 and SOC 15 combined: maximum credit, one course
RUSS	RUSS 2 corresponds to two years of high school study
SIGN	SIGN 2 corresponds to two years of high school study
SOC	SOC 15, MATH 10, 10H, 17, 23 and PSYC 15 combined: maximum credit, one course
SPAN	SPAN 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 Topics," "Special Topics," "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. Information about internships may also be presented for review, but credit for internships rarely transfers to UC. UC does not grant credit for variable topics courses in Journalism, Photography, Health, Business Administration, Architecture, Administration of Justice (Criminology) or Library Departments because of credit restrictions in these areas.
Honors Course Credit Limitation	Duplicate credit will not be awarded for both the honors and regular versions of a course. Credit will only be awarded to the first course completed with a grade of C or better.
Course Repeatability	An "ea" after the unit value of a course on an agreement listed at www.ASSIST.org is meant to indicate that the course may be repeated for credit under CCC campus policies. Since campus policies on repeatability vary, the "ea" indicator does not guarantee that UC will grant credit for every course that appears multiple times on a student's transcript.

CREDIT COURSE REPETITION, REPEATABILITY AND FAMILIES

REPETITION VS. REPEATABILITY

Repetition occurs when a student who has previously received an evaluative symbol (grade) in a particular credit course re-enrolls in that same course and receives another evaluative symbol (grade) (CCR §55023). Title 5 regulations specify the circumstances under which a student may repeat a course (CCR §55040-45, 55253, 56029).

Repeatability occurs when a student repeats specific credit course(s), designated by the Foothill-De Anza Community College District as repeatable (CCR §55041). These specific, repeatable courses have limitations on how many times a student can repeat the course (see course description). Per Title 5 regulations, the maximum number of times a student can repeat a credit course in a quarter system is six (6) times, even if the student receives a substandard grade or a "W" during one or more of the enrollments, unless otherwise specified.

CREDIT COURSE REPETITION

Credit course repetition is regulated by state guidelines as described in Title 5 of the California Code of Regulations (CCR §55040).

Students are limited to a maximum of three (3) enrollments in a course unless otherwise specified in the course description.

Students may only petition to repeat a course beyond the maximum allowed enrollments under the following conditions:

1. alleviating substandard academic work (CCR §55042)
2. a significant lapse of time (5 years) since the last time the student was enrolled in the course (CCR §55043)
3. legally mandated training for employment or licensure (CCR §55000)
4. extenuating circumstances (CCR §55045)
5. students with disabilities who require a disability-related accommodation (CCR §56029)

CREDIT COURSE REPETITION

(with sub-standard grade or withdrawal)

Students may only repeat a course, for a maximum of three enrollments, in which any combination of a sub-standard grade (D, F, NP or NC) was received or the student withdrew from the course with a "W."

CREDIT COURSE REPETITION

(with standard grade)

Students may only repeat a course, when a standard grade (A, B, C, P or CR) was received if the course specifies repeatability (see course description).

CREDIT COURSE REPEATABILITY

De Anza College only designates the following types of credit courses to be repeatable per Title 5 (CCR §55041):

1. courses for which repetition is necessary to meet the major requirements of CSU or UC for completion of a Bachelor's Degree
2. intercollegiate athletics
3. specific courses designated as Special Education and meet the criteria set forth in Title 5

These courses clearly state the terms of the course repeatability in their course descriptions.

ACTIVE PARTICIPATORY COURSE LIMITATIONS

(Course Families)

Per the California Community College Board of Governors, a student may not have more than six (6) enrollments in any active participatory courses that are related in content. This limitation also applies to students who receive a substandard grade (D, F, NP or NC) or withdrew from a course with a "W" for one or more of the enrollments (CCR §55000).

Active participatory courses included in this restriction are courses in physical education, visual arts and performing arts offered within the Foothill-De Anza Community College District.

Both Foothill and De Anza colleges have created "Course Families" within the District to address this limitation. These families include courses from Foothill and De Anza that have been determined to have related or contain similar content, and therefore, can only be taken in any combination for no more than six (6) enrollments.

Prior to Fall 2013, students were able to repeat active participatory courses. However, as of Fall 2013, all active participatory courses are non-repeatable and can only be taken one time subject to the limitations set forth in Title 5 (CCR §55040(c).

This limitation does not contain a grandfather clause. Therefore, if a student has reached the maximum times of enrollment within a family, then s/he cannot enroll in any course within the family again within the Foothill-De Anza Community College District.

Additionally, if a student enrolls in a De Anza course that is equivalent to a Foothill course, within a course family, s/he may not take the Foothill course at any time, and vice-versa.

For example: ARTS 4B at De Anza is equivalent to ART 4B at Foothill. If a student has taken or plans on taking ARTS 4B at De Anza, then that student cannot have taken or plan on taking ART 4B at Foothill.

For more information on course repetition, repeatability and families, please visit **www.deanza.edu/registration/courserepeat.html**.

COURSE LISTINGS

ACCOUNTING

ACCT 1A Financial Accounting I 5 Units
(Not open to students with credit in ACCT 1AH.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Five hours lecture (60 hours total per quarter).
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 1AH Financial Accounting I - HONORS 5 Units
(Not open to students with credit in ACCT 1A.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Five hours lecture (60 hours total per quarter).
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. As an honors course, the students will be expected to complete extra assignments to gain deeper insight in accounting.

ACCT 1B Financial Accounting II 5 Units
(Not open to students with credit in ACCT 1BH.)
Prerequisite: ACCT 1A or ACCT 1AH.
Five hours lecture (60 hours total per quarter).
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 1BH Financial Accounting II - HONORS 5 Units
(Not open to students with credit in ACCT 1B.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Prerequisite: ACCT 1A or ACCT 1AH.
Five hours lecture (60 hours total per quarter).
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. As an honors course, the students will be expected to complete extra assignments to gain deeper insight in accounting.

ACCT 1C Managerial Accounting 5 Units
(Not open to students with credit in ACCT 1CH.)
Prerequisite: ACCT 1B or ACCT 1BH.
Five hours lecture (60 hours total per quarter).
Study the role of management accounting information in organizations for operational control, product and customer costing and performance measurement.

ACCT 1CH Managerial Accounting - HONORS 5 Units
(Not open to students with credit in ACCT 1C.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Prerequisite: ACCT 1B or ACCT 1BH.
Five hours lecture (60 hours total per quarter).
Study the role of management accounting information in organizations for operational control, product and customer costing and performance measurement. As an honors course, the students will be expected to complete extra assignments to gain deeper insight in Accounting.

ACCT 51A Intermediate Accounting 5 Units
Prerequisite: ACCT 1B or ACCT 1BH.
Five hours lecture (60 hours total per quarter).
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: ACCT 1B or ACCT 1BH.
Advisory: ACCT 51A.
Five hours lecture (60 hours total per quarter).
Principles, control, and theory of accounting for liabilities and equities, corporations, accounting changes, pensions and leases, price level and fair-value accounting.

ACCT 52 Advanced Accounting 5 Units
Prerequisite: ACCT 1B or ACCT 1BH.
Advisory: ACCT 51B.
Five hours lecture (60 hours total per quarter).
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. Also includes accounting and reporting issues in the governmental and not-for-profit environment. Accounting theory and practice related to the formation, operation and liquidation of partnerships is covered.

ACCT 58 Auditing 5 Units
Prerequisite: ACCT 1B or ACCT 1BH.
Advisory: ACCT 51B.
Five hours lecture (60 hours total per quarter).
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: ACCT 1A or ACCT 1AH.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 212 or equivalent.
Three hours lecture (36 hours total per quarter).
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: ACCT 1B or ACCT 1BH.
Advisory: ACCT 1C or ACCT 1CH.
Five hours lecture (60 hours total per quarter).
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
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 210 or equivalent; ACCT 1A or ACCT 1AH (may be taken concurrently).
Four hours lecture (48 hours total per quarter).
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
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; ACCT 67A.
Four hours lecture (48 hours total per quarter).
A study of current federal income tax law and California income tax law as it relates to individuals and sole proprietorship taxes. Introduction to partnerships and corporations.

ACCT 68 Advanced Tax Accounting II 4 Units
Advisory: ACCT 1A or ACCT 1AH.
Four hours lecture (48 hours total per quarter).
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 73 Fraud Detection and Deterrence 5 Units
Prerequisite: ACCT 1B or ACCT 1BH.
Five hours lecture (60 hours total per quarter).
The principles and methodology of fraud detection and deterrence as it relates to occupational fraud are covered in this course. Includes such topics as skimming, cash larceny, check tampering, register disbursement schemes, billing schemes, payroll and expense reimbursement schemes, non-cash misappropriations, corruption, accounting principles and fraud, fraudulent financial statements, risk assessment and interviewing witnesses.

ACCT 74 Accounting Ethics 5 Units
Prerequisite: ACCT 1A or ACCT 1AH.
Five hours lecture (60 hours total per quarter).
Study of professional ethics for accounting from a business perspective in context of financial statement fraud and similar business fraud. Topics include nature of accounting, ethical behavior in accounting, regulatory licensing, ethical theory, rules of the code of conduct, ethics of tax accounting and ethics of the auditing function.

ACCT 75 Accounting for Government and Nonprofit Entities 5 Units
Prerequisite: ACCT 1B or ACCT 1BH.
Advisory: ACCT 1C or ACCT 1CH.
Five hours lecture (60 hours total per quarter).
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 nonprofit 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 nonprofit 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 nonprofit entities are also presented.

ACCT 86 Computer Accounting Systems 5 Units
Prerequisite: ACCT 1A or ACCT 1AH.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as CIS 86. Students may enroll in either department, but not both, for credit.)
Five hours lecture (60 hours total per quarter).
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: ACCT 1A or ACCT 1AH.
Two hours lecture (24 hours total per quarter).
Introduction to computerized accounting for service industry. Applications include general ledger setup, 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: ACCT 1A or ACCT 1AH.
Two hours lecture (24 hours total per quarter).
Introduction to computerized accounting for service industry. Applications include general ledger setup, accounts payable, accounts receivable and payroll. Course will take advantage of new accounting software being used in industry.

ACCT 87AJ Computerized Accounting Programs I (Microsoft Dynamics GP) 2 Units
Prerequisite: ACCT 1A or ACCT 1AH.
Two hours lecture (24 hours total per quarter).
Introduction to computerized accounting for service industry. Applications include general ledger setup, 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: ACCT 1A or ACCT 1AH.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 212 or equivalent; basic knowledge of Excel is highly recommended.
Two hours lecture (24 hours total per quarter).
Fundamentals of electronic spreadsheets using Microsoft Excel software. Concentration on solving accounting problems and completing accounting projects with Excel.

ACCT 105 Basic Financial Accounting Procedures 1 Unit
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; ACCT 1A or ACCT 1AH.
One hour lecture (12 hours total per quarter).
Procedural aspects of accounting; including the accounting equation, analysis of business transactions, debit and credit rules, and aspects of the accounting cycle.

ADMINISTRATION OF JUSTICE

ADMJ 1 Introduction to Administration of Justice 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as POLI 10. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
An introduction to the characteristics of the criminal justice system in the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, response to crime, components of the system and current challenges to the system. Examines the evolution of the principles and approaches utilized by the justice system and the evolving forces which have shaped those principles and approaches. Although justice structure and process is examined in a cross cultural context, emphasis is placed on the US justice system, particularly the structure and function of US police, courts and corrections. Students are introduced to the origins and development of criminal law, legal process, and sentencing and incarceration policies.

ADMJ 3 Concepts of Criminal Law (CP 2) 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as PARA 3 and POLI 13. Students may enroll in only one department for credit.)
Four hours lecture (48 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
An examination of the complex, dynamic relationship between communities and the justice system by addressing crime and conflict with an emphasis on the challenges and prospects of administrating justice within a diverse multicultural population. Topics covered may include crime prevention, restorative justice, conflict resolution and ethics.

ADMJ 6 Crime, Correction and Society 4 Units
(Formerly ADMJ 50.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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 11 Federal Courts and Constitutional Law 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as PARA 11 and POLI 11. Students may enroll in only one department for credit.)
Four hours lecture (48 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as PARA 25. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
Exploration of the use of law as an instrument for social change. Examination of the 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
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ICS 29. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
An interdisciplinary study of marginalized peoples and their relationship to the law. Examines the legal perspective on cultural diversity in the United States by examining groups based on 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. Analyzes the effect of law on cultural pluralism and cultural diversity in the United States.

ADMJ 51 Women in Crime 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as SOC 51. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
An advanced course in criminal law emphasizing substantive California statutory criminal codes.

ADMJ 54 Youth and the Law 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as PARA 54 and SOC 54. Students may enroll in only one department for credit.)
Four hours lecture (48 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Designed to acquaint the student with the basic principles, techniques and applications required to complete an effective, professional investigative report within the criminal justice system. Ethical standards and critical thinking, as they relate to report writing, will be examined.

ADMJ 61 Criminal Investigation 4 Units
Prerequisite: ADMJ 3 (may be taken concurrently) or ADMJ 75 (may be taken concurrently).
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as PSYC 63. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory per unit of supervised internship in an authorized office or agency (36 hours total for each unit of credit per quarter).
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 Unit
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as SOC 73. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as PARA 74A and PSYC 74A. Students may enroll in only one department for credit.)
Four hours lecture (48 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as PARA 75 and POLI 75. Students may enroll in only one department for credit.)
Four hours lecture (48 hours total per quarter).
Procedures followed by law enforcement and courts in criminal cases; constitutional principles governing those procedures.

ADMJ 78 Correctional Investigation 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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.

ADMJ 84 Forensic Science 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
A discussion on the techniques used by forensic scientists in identification, collection, comparison and analysis of different types of physical evidence from crime scenes. Intended for the non-science major seeking a law enforcement career but it is useful to all students interested in the field of forensic science. Emphasis will be given to trace evidence, DNA evidence, bloodstain patterns, firearms, tool marks, fingerprints, questioned documents, drugs, arson, explosives, computer forensics and courtroom expert witness testimony.

ADMJ 90A Legal Aspects of Evidence (CP 4) 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as PARA 90A. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as PARA 95 and POLI 95. Students may enroll in only one department for credit.)
Four hours lecture (48 hours total per quarter).
Overview of the major substantive areas of American law: Agency, contracts, constitutional law, corporations, criminal law, family law, property, torts, wills and estates.

ANTHROPOLOGY

ANTH 1 Physical Anthropology 4 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in ANTH 1H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Introduction to biological aspects of humans. A bio-cultural and an evolutionary approach is used to understand human variation and human evolution. Issues and topics will include, human variation and its adaptive significance, biological and behavioral evolution of humans, comparative primate anatomy and behavior, evolutionary theory, and the impact of cultural, technological and environmental change on human biology and behavior.

ANTH 1H Physical Anthropology - HONORS 4 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in ANTH 1.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Introduction to biological aspects of humans. A bio-cultural and an evolutionary approach is used to understand human variation and human evolution. Issues and topics will include, human variation and its adaptive significance, biological and behavioral evolution of humans, comparative primate anatomy and behavior, evolutionary theory, and the impact of cultural, technological and environmental change on human biology and behavior. As an honors course the students will be expected to complete extra assignments to gain deeper insight in anthropology.

ANTH 1L Physical Anthropology Laboratory 1 Unit
(See general education pages for the requirement this course meets.)
Prerequisite: ANTH 1 or ANTH 1H (either course may be taken concurrently).
Three hours laboratory (36 hours total per quarter).
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.)
(Not open to students with credit in ANTH 2H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 2H Cultural Anthropology - HONORS 4 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in ANTH 2.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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. As an honors course the students will be expected to complete extra assignments to gain deeper insight in anthropology.

ANTH 3 Introduction to Archaeology 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 5 Magic, Science and Religion 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Introduction to the analysis of systems of observation, deduction, reasoning, belief, and practical action across human culture past and present. Issues and topics include symbol, myth, and narrative; ritual and altered states of consciousness; specialist practitioners; healing, illness, and death; and relations between religion, science, politics, intercultural encounter, and historical change.

ANTH 6 Linguistic Anthropology 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 7 Introduction to Forensic Anthropology 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introduction to forensic anthropology which is an applied field of physical anthropology. A comparative and a holistic approach is used to interpret human skeletal remains and determine the age, sex, race, time of death, trauma, pathology, for the purpose of identification. Focus on varying areas in which forensic anthropology is used, such as in crime scene investigation, missing person identification, human rights and humanitarian investigations.

ANTH 68 Anthropology and Museums 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introduction to the field of museum studies or museology with a special emphasis on anthropology museums. Explores the meaning and function of museums and their changing role in the twenty-first century. Experience the curatorial role in an anthropology museum with hands on experience in acquisition, conservation, identification, cataloging, exhibition, and interpretation of anthropological material.

ARTS

ARTS 1A Introduction to the Visual Arts 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 CE, 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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introduction to the discipline of art history through analysis of images, objects, and works of architecture produced from approximately 600 through 1600 CE, 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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ICS 5. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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 topics considered important by each ethnicity or group, as well as issues related to racism, gender, social class and contemporary social/political awareness. 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: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as INTL 10. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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.

A

ARTS 2H History of Art: Native Arts of Mesoamerica and the Andes 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as INTL 21. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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 with emphasis upon the Pre-Columbian past. 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: Arts of Africa, Oceania and Native North America 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as INTL 22. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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, as well as the impact of colonialism and representations of indigenous arts in museums, 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
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as INTL 23. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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. The impact of colonialism in the Islamic world and Orientalism in Europe and America are briefly explored.

ARTS 2L History of Art: Visual Arts of Africa 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as INTL 24. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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, as well as the impact of colonialism and the arts in postcolonial Africa. Compares arts from Africa to other world art traditions and assesses the contributions of African arts in a global context.

ARTS 3TC Women and Art 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as WMST 3C. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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.

ARTS 3TD American Art: Public and Private 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introduction to the discipline of Art History through analysis of art in the United States which emphasizes discussion of paintings, sculpture, and works of architecture produced for both public and private purposes, from the seventeenth century to the present day.

ARTS 3TE Today's Art Scene 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Focuses on the issues and challenges facing today's working artists. Topics include; the roots of international contemporary art, technological influences on current art practices, and the essential components for assembling a dynamic portfolio presentation.

ARTS 4A Beginning Drawing 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; ARTS 8.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Drawing Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introductory course exploring the basic elements and principles of observational drawing, using traditional and experimental media.

ARTS 4B Intermediate Drawing 4 Units
Prerequisite: ARTS 4A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; ARTS 8.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Drawing Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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 4C Life Drawing 4 Units
Prerequisite: ARTS 4A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; ARTS 4B, 4D and 8.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Drawing Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
A beginning drawing course focusing on the representation and interpretation of the human figure; with attention to drawing from life.

ARTS 4D Representational Drawing 4 Units
Prerequisite: ARTS 4A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; ARTS 8.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Drawing Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
A foundation course in the use of fundamental design elements and principles for two-dimensional art.

ARTS 10A Three-Dimensional Design 4 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.
Three hours lecture, three hours laboratory (72 hours total per quarter).
Introduction to design elements and principles as they apply to three-dimensional space and form. Idea explorations in various media including wire, clay, plaster, paper, wood metals and found objects.

ARTS 10B Intermediate Three-Dimensional Design 4 Units
Prerequisite: ARTS 10A.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.
Three hours lecture, three hours laboratory (72 hours total per 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.

ARTS 12 Design and Color 4 Units
Prerequisite: ARTS 8.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
A fundamental course exploring theory and color in the visual arts.

ARTS 14A Watercolor Painting I 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Painting Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
A comprehensive introduction to transparent watercolor painting with emphasis on basic techniques.

ARTS 14B Watercolor Painting II 4 Units
Prerequisite: ARTS 14A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Painting Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

ARTS 14C Watercolor Painting III 4 Units
Prerequisite: ARTS 14B.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Painting Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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 4 Units
Prerequisite: ARTS 4A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Painting Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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 4 Units
Prerequisite: ARTS 15A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Painting Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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 4 Units
Prerequisite: ARTS 15B.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Painting Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
A continuation of ARTS 15B with emphasis on processes 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 4 Units
Prerequisite: ARTS 4A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Painting Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introductory oil painting course exploring the application of the medium 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 4 Units
Prerequisite: ARTS 16A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Painting Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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 4 Units
Prerequisite: ARTS 16B.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Painting Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
A continuation of ARTS 16B with emphasis on processes rather than techniques. Primary concerns include shaped canvasses, glazing techniques, ideas, expression, and aesthetics relating to the oil medium.

ARTS 18A Ceramics 4 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Ceramic Construction Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Survey of ceramic construction techniques. Use of surface decoration, glazes and ceramic kiln firing.

ARTS 18B Ceramics (Beginning Wheel Throwing) 4 Units
Prerequisite: ARTS 18A.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Ceramic Construction Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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) 4 Units
Prerequisite: ARTS 18B.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Ceramic Construction Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Intermediate techniques of throwing on the potter's wheel. Forming, shaping, trimming and surface development of intermediate wheel thrown pieces. Builds upon throwing techniques and processes in Ceramics (Beginning Wheel Throwing) - (ARTS 18B).

ARTS 18D Ceramics Hand Building 4 Units
Prerequisite: ARTS 18A.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Ceramic Construction Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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) 4 Units
Prerequisite: ARTS 18C.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Ceramic Construction Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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 19H Ceramics Raku 4 Units
Prerequisite: ARTS 18A.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Ceramic Surface Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Historical development, firing techniques, glaze, kilns and clay-bodies, for the Raku ceramic process.

ARTS 19J Ceramics Techniques 4 Units
Prerequisite: ARTS 18B.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Ceramic Surface Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Techniques of hand building and wheel construction combined: experimental glazing and texturing treatments.

ARTS 19K Ceramics Decoration 4 Units
Prerequisite: ARTS 18B.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Ceramic Surface Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Surface treatments and refinement used in the production of stoneware, earthenware and porcelain.

ARTS 19M Ceramics Low Fire 4 Units
Prerequisite: ARTS 18A.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Ceramic Surface Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Survey of earthenware as a ceramic material. Use of surface decoration, glazes and ceramic kiln firing.

A

ARTS 20 Ceramics Individual Laboratory 2 Units
Prerequisite: ARTS 18D or ARTS 18E.
Six hours laboratory (72 hours total per quarter).
(This course is included in the Ceramic Construction Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Supervised use of ceramic studio equipment for independent skill development; hand building, wheel throwing and kiln firing.

ARTS 37A Sculpture 4 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent; ARTS 10A.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Sculpture Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Beginning sculpture, with an emphasis on idea development, visual investigation and the sculpture making process, including construction, carving, casting and mixed media.

ARTS 37B Intermediate Sculpture 4 Units
Prerequisite: ARTS 37A.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Sculpture Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Intermediate sculpture with emphasis on further formulation of idea development, visual investigation and its making process. Additional materials and processes will be examined.

ARTS 37C Advanced Sculpture 4 Units
Prerequisite: ARTS 37B.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Sculpture Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Advanced sculpture with an emphasis on idea development, visual investigation and the sculpture making process. Additional materials and processes will be examined and demonstrated.

ARTS 53 Introduction to Visual Technology 4 Units
(Formerly ARTS 53A.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; ARTS 8.
Three hours lecture, three hours laboratory (72 hours total per quarter).
A survey course for artists and designers, using digital software as a medium of artistic expression. An introduction of fundamental concepts, practices, and theories of digital art production. Student projects will explore the creative and artistic potential of introductory software and experience how each one relates to today's artistic and digital media environment. Topics will include the integration of traditional design, color, and compositional principles with contemporary digital tools. Introductory use of Adobe Illustrator and Adobe InDesign.

ARTS 54 Visual Technology II 4 Units
(Formerly ARTS 53B.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; ARTS 53.
Three hours lecture, three hours laboratory (72 hours total per quarter).
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 are Adobe Photoshop and Adobe After Effects.

ARTS 55A Graphic Design-Communication I 4 Units
Prerequisite: ARTS 53 or ARTS 54 or instructor approval.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
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, Adobe Illustrator and Adobe InDesign.

ARTS 55B Graphic Design-Communication II 4 Units
Prerequisite: ARTS 55A or instructor approval.
Three hours lecture, three hours laboratory (72 hours total per quarter).
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 Adobe InDesign.

ARTS 55C Graphic Design-Communication III: Production Techniques 4 Units
Prerequisite: ARTS 55B or instructor approval.
Three hours lecture, three hours laboratory (72 hours total per quarter).
Intermediate 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, Adobe InDesign and Adobe Flash.

ARTS 56 Graphic Design: Page Layout for Digital Publishing 4 Units
Prerequisite: ARTS 53.
Advisory: ARTS 55A.
Three hours lecture, three hours laboratory (72 hours total per quarter).
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. Primary software presented is Adobe InDesign. Other programs used are Adobe Photoshop and Adobe Illustrator.

ARTS 57 Graphic Design-Communication: Typography 4 Units
Advisory: ARTS 53.
Three hours lecture, three hours laboratory (72 hours total per quarter).
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 4 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent; ARTS 10A.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Industrial Design Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Beginning furniture design with emphasis on developing basic skills in design, construction and craftsmanship.

ARTS 58B Intermediate Furniture Design 4 Units
Prerequisite: ARTS 58A.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Industrial Design Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Intermediate furniture design, with an emphasis on a broader range of skills in design, construction and craftsmanship.

ARTS 58C Advanced Furniture Design 4 Units
Prerequisite: ARTS 58B.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Industrial Design Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Advanced furniture design, with an emphasis on individual projects and further development on skills in design, construction and craftsmanship.

ARTS 63 Business Practices for Graphic Designers 4 Units
Prerequisite: ARTS 55A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
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 current art and design technology issues. Students will create portfolio materials for self promotion.

ARTS 65 Graphic Design: UI/UX and the World Wide Web 4 Units
Prerequisite: ARTS 53 or ARTS 54.
Three hours lecture, three hours laboratory (72 hours total per quarter).
Hands-on Web page design fundamentals with an emphasis 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, grids, white space, visual hierarchy, corporate identity/branding and typography issues. The primary software programs used are Adobe Photoshop CS and Adobe Illustrator CS.

ARTS 70 Viewing Bay Area Art Museums and Galleries 1 Unit
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Arts - Professional Practice Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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 4 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; ARTS 4A or 8.
Three hours lecture, three hours laboratory (72 hours total per quarter).
(This course is included in the Arts - Professional Practice Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; ARTS 1A, 4A, 8, 10A, and 71.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Arts - Professional Practice Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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), Two-Dimensional Design (ARTS 8), and Three-Dimensional Design (ARTS 10A).

ARTS 85 Graphic Design: Motion Graphics 4 Units
Prerequisite: ARTS 53 or ARTS 54.
Three hours lecture, three hours laboratory (72 hours total per quarter).
The analysis and interpretation of the art and design involved in the production of graphic design to be viewed in non-print media (film, CRT and LCD screens). The creative integration of "type" and "image" in motion is stressed through the use of directed laboratory exercises. Primary software presented is Adobe After Effects. Other software used includes Adobe Photoshop, Adobe Illustrator and Adobe Flash.

ARTS 86 Graphic Design: Digital Illustration Techniques 4 Units
Prerequisite: ARTS 53.
Three hours lecture, three hours laboratory (72 hours total per quarter).
Introduction to industry standard software related to the creation and implementation of computer generated illustration. Emphasis is placed 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, packaging illustration, charts/diagrams/graphs, and 3D illustration dynamics. The primary software program presented is Adobe Illustrator CS. Adobe Photoshop CS will also be used.

ASTRONOMY

ASTR 4 Solar System Astronomy 5 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Five hours lecture (60 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Five hours lecture (60 hours total per quarter).
An analysis of the physical principles, logic, and development of stellar astronomy from ancient times to the present, with emphasis on recent developments. The relationship of Earth to its deep-space environment and contrast the Sun to other types of stars will be examined. 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 will be synthesized.

ASTR 15L Astronomy Laboratory 1 Unit
(See general education pages for the requirement this course meets.)
Prerequisite: ASTR 4 or ASTR 10 (may be taken concurrently).
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 210 or equivalent.
Three hours laboratory (36 hours total per quarter).
Introductory astronomy lab in which students use astronomical techniques, data, and software to evaluate hypotheses about the physical universe. Areas of investigation include our solar system and the extrasolar planets, as well as stars, galaxies, and the evolution of the universe.

AUTOMOTIVE TECHNOLOGY

AUTO 50A Introduction to Automotive Principles 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture (48 hours total 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A (may be taken concurrently).
One and one-half hours lecture, two and one-half hours laboratory (48 hours total per quarter).
Basic 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture (48 hours total 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 51A (may be taken concurrently).
One and one-half hours lecture, two and one-half hours laboratory (48 hours total per quarter).
Basic experiences in automotive repair and maintenance as related to: suspension, steering, braking and drive line components.

AUTO 53A Automotive Mechanisms 4 Units
Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Three hours lecture, three hours laboratory (72 hours total per quarter).
The application of physical principles to the operation of mechanical and hydraulic systems, using an applied physics technique.

AUTO 53B Automotive Electromechanical Systems 2 Units
Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
One and one-half hours lecture, two and one-half hours laboratory (48 hours total per quarter).
Principles of electricity, electronics, circuits, cranking and charging systems. Testing, diagnosis and repair of these systems.

AUTO 57A Career Research and Employment in the Automotive Industry 2 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture (24 hours total per quarter).
Career research in the automotive industry: job search, applications and resumes, employer-employee relationships, job interviews.

AUTO 60 Automotive Electrical Systems 9 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A and 50B.
Nine hours lecture (108 hours total per quarter).
Principles of electricity, electronics, cranking and charging systems. Testing, diagnosis and repair of these systems.

AUTO 60A Electrical Schematic Diagnosis 4 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 60.
Four and one-half hours lecture (54 hours total 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 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A, 50B, 60 and 60A.
Four and one-half hours lecture (54 hours total 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.

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AUTO 60C Automotive Ignition, Fuel and Emission Systems 9 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A, 50B, 60, 60A and 60B.
Nine hours lecture (108 hours total 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 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A, 50B, 60, 60A, 60B and 60C.
Four and one-half hours lecture (54 hours total 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 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A, 50B, 60, 60A, 60B, 60C and 60D.
Four and one-half hours lecture (54 hours total 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 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A, 50B, 60, 60A, 60B, 60C, 60D and 60E.
Four and one-half hours lecture (54 hours total 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 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A, 50B, 60, 60A, 60B, 60C, 60D and 60E.
Four and one-half hours lecture (54 hours total 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 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A, 50B, 60, 60A, 60B, 60C, 60D and 60E.
Four and one-half hours lecture (54 hours total 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 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A, 50B, 60, 60C, 60D, 60E, 60F and 60G.
Four and one-half hours lecture (54 hours total 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 multi-meter (DMM) and scan tool. Advanced waveform analysis. Preparation for Automotive Service Excellence (ASE) examination in Areas A6, A8 and L1.

AUTO 60K Automotive Body Electrical Systems 4 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 60A and AUTO 60B.
Four and one-half hours lecture (54 hours total 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. Symptom to system diagnosis. Preparation for Automotive Service Excellence (ASE) examination in Area A6.

AUTO 60N Hybrid Vehicle Safety and Maintenance 2 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 60A and 60B.
Two hours lecture (24 hours total 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 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 51A and 51B.
Four and one-half hours lecture (54 hours total per quarter).
Operation of automotive brake systems. Repair, maintenance and troubleshooting.

AUTO 61B Electronically Controlled Brake Systems 4 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 61A.
Four and one-half hours lecture (54 hours total per quarter).
Computer controlled automotive brake systems, including service, maintenance, troubleshooting and repair procedures.

AUTO 62A Automotive Suspension, Steering and Alignment 9 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A and 50B.
Nine hours lecture (108 hours total 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Nine hours lecture (108 hours total 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A and 50B.
Nine hours lecture (108 hours total 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 in Area A2.

AUTO 63A Advanced Manual Drive Train 9 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A and 50B.
Nine hours lecture (108 hours total per quarter).
Details of operation and repair of automotive manual drive train components. The design operation and repair of four wheel and all wheel drive components, as well as the theory and practical application of the diagnosis of noise and vibrations in the drive train based on frequency calculation and measurement. Service and repair procedures, product problem discussions and demonstrations. Preparation for Automotive Service Excellence (ASE) certification examination in Area A3.

AUTO 63D Transmission Diagnostic and Repair Techniques 4 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A and 50B.
Four and one-half hours lecture (54 hours total 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 in Areas A2 and A3.

AUTO 64 Automotive Machining and Engine Repair 9 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50B.
Nine hours lecture (108 hours total 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
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 64.
Nine hours lecture (108 hours total 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
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Seven hours lecture (84 hours total per quarter).
Automotive technician training program for California's Inspection and Maintenance Program (I&M Program). Course content is mandated by the BAR.

AUTO 65W Advanced Clean Air Car Course 2 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Two and one-half hours lecture (30 hours total per quarter).
Automotive technician training program for California's Inspection and Maintenance Program (I&M Program). Covers the continuing content for Emissions Update Training for the State of CA and meets the Bureau of Automotive Repair (BAR) requirement for obtaining an Advanced Emissions Specialist (EA) Smog Check License.

AUTO 66 Automotive Air Conditioning 4 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four and one-half hours lecture (54 hours total 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 67A Hybrid Electric Vehicles 4 ½ Units
(Formerly AUTO 60M.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 60A, 60B and 60G.
Four and one-half hours lecture (54 hours total 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 67B Plug-In Electric Vehicle Technology 4 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 67A.
Four and one-half hours lecture (54 hours total per quarter).
Understanding the functions of plug in electric vehicles and hybrid extended range electric vehicles. Operating characteristics of high voltage on board charging systems. charging stations, photo voltaic systems, and electrical grid charging. Operation of on board smart charging systems. Economics of electric transportation, utility company systems, and existing options such as off peak charging. Understanding the use of electric power as applicable to extended range electric vehicle transportation. Utilization of applicable diagnostic and service equipment. Electric vehicle theory of operation. Advantages of an electric drive train. Electric vehicle history and current status of plug in electric vehicle technologies. Career possibilities in the electric transportation industry. Safety procedures and maintenance of plug in electric vehicles.

AUTO 67J Introduction to Automotive and Light Truck Diesel Systems 4 ½ Units
(Formerly AUTO 64G.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A and 50B.
Four and one-half hours lecture (54 hours total per quarter).
As of January 2010, California state law required light duty diesel powered vehicles to be included in the smog check program. Diesel's higher efficiency is moving these vehicles' highway mileage to over 40 miles per gallon. Chevrolet, Jeep and Mazda are all adding diesel powered vehicles into their new car line-up. This course will consist of lectures and laboratory demonstrations. Providing our students with the necessary skills to maintain and repair light duty diesel vehicles. Diesel training will give students new abilities that are required to be successful in their careers in the automotive industry.

AUTO 91A Automotive Brake Systems 6 Units
Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A and AUTO 50B.
Four hours lecture, six hours laboratory (120 hours total per quarter).
Repair, maintenance and troubleshooting of automotive braking systems.

AUTO 92A Automotive Steering and Suspension 6 Units
Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 51A and AUTO 51B.
Four hours lecture, six hours laboratory (120 hours total per quarter).
Repair, maintenance and troubleshooting of suspension and steering systems.

AUTO 92B Automotive Alignment 6 Units
Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture, six hours laboratory (120 hours total per quarter).
Automotive alignment systems, including repair, maintenance and troubleshooting. Service and repair procedures.

AUTO 92C Automotive Electronic Chassis Controls 2 Units
Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
One and one-half hours lecture, one and one-half hours laboratory (36 hours total per quarter).
Computer controlled automotive suspension and steering systems, including repair, maintenance, troubleshooting, and service procedures.

AUTO 93A Automotive Final Drive Train 6 Units
Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture, six hours laboratory (120 hours total per quarter).
Components of the final drive train including design features and service techniques.

AUTO 93B Standard Transaxles 2 Units
Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
One and one-half hours lecture, one and one-half hours laboratory (36 hours total per quarter).
Standard transaxles: power flow, service requirements and repair procedures.

AUTO 93C Automatic Transmissions 6 Units
Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture, six hours laboratory (120 hours total 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 2 Units
Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
One and one-half hours lecture, one and one-half hours laboratory (36 hours total per quarter).
A detailed study of automatic transaxles. Power flow, service requirements and repair procedures will be covered.

AUTO 93E Diagnostic Techniques 1 ½ Units
Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
One hour lecture, one and one-half hours laboratory (30 hours total per quarter).
Diagnostic techniques for problem solving in the automotive and light duty truck powertrain.

AUTO 93F Automotive Transmission Service 6 Units
Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture, six hours laboratory (120 hours total 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 6 Units
Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture, six hours laboratory (120 hours total 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 6 Units
Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture, six hours laboratory (120 hours total 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 6 Units
Prerequisite: AUTO 94A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture, six hours laboratory (120 hours total per quarter).
Reconditioning engine short block assemblies and components including balancing, assembly and testing.

AUTO 94D Automotive Machining and Engine Service 6 Units
Prerequisite: AUTO 94A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture, six hours laboratory (120 hours total 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.

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AUTO 94E Automotive Machining and Engine Service 6 Units

Prerequisite: AUTO 94C.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture, six hours laboratory (120 hours total 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 6 Units

Prerequisite: AUTO 94C.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture, six hours laboratory (120 hours total 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 7 Units

Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture, nine hours laboratory (156 hours total per quarter).
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 7 Units

Prerequisite: Approved Automotive Technology Course Sequence Contract.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture, nine hours laboratory (156 hours total per quarter).
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 7 Units

Prerequisite: AUTO 99A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture, nine hours laboratory (156 hours total per quarter).
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 affect engine performance of the automobile.

AUTO 99D Intermediate Engine Performance Systems 7 Units

Prerequisite: AUTO 99A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture, nine hours laboratory (156 hours total per quarter).
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 7 Units

Prerequisite: AUTO 99C.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture, nine hours laboratory (156 hours total per quarter).
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 drive-ability.

AUTO 99F Intermediate Engine Performance Diagnostic Procedures 7 Units

Prerequisite: AUTO 99C.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture, nine hours laboratory (156 hours total per quarter).
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 6A Form and Function in the Biological World 6 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in BIOL 6AH.)
Prerequisite: CHEM 1A or 25 with a grade of C or better; or satisfactory score on the Chemistry Placement Exam.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture, six hours laboratory (120 hours total per quarter).
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 6AH Form and Function in the Biological World - HONORS 6 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in BIOL 6A.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Prerequisite: CHEM 1A or 25 with a grade of C or better; or satisfactory score on the Chemistry Placement Exam.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture, six hours laboratory (120 hours total per quarter).
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. As an honors course, the students will be expected to complete extra assignments to gain deeper insight in biological form and function.

BIOL 6B Cell and Molecular Biology 6 Units

(See general education pages for the requirement this course meets.)
Prerequisite: BIOL 6A or BIOL 6AH.
Advisory: EWRT 1A or EWRT 1AH or ESL 5; MATH 114 or equivalent.
Four hours lecture, six hours laboratory (120 hours total per quarter).
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

(See general education pages for the requirement this course meets.)
(Not open to students with credit in BIOL 6CH.)
Prerequisite: BIOL 6A (or BIOL 6AH) and BIOL 6B, with a grade of C or better.
Advisory: EWRT 1A or EWRT 1AH or ESL 5; MATH 114 or equivalent.
Four hours lecture, six hours laboratory (120 hours total per quarter).
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 6CH Ecology and Evolution - HONORS 6 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in BIOL 6C.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Prerequisite: BIOL 6A (or BIOL 6AH) and BIOL 6B, with a grade of C or better.
Advisory: EWRT 1A or EWRT 1AH or ESL 5; MATH 114 or equivalent.
Four hours lecture, six hours laboratory (120 hours total per quarter).
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. As an honors course the students will be expected to complete extra assignments to gain deeper insight in ecology and evolution.

BIOL 10 Introductory Biology 5 Units
(Not open to students who have completed BIOL 6A, 6AH, 6B, 6C, 6CH, 10H or equivalent.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture, three hours laboratory (84 hours total per quarter).
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 10H Introductory Biology - HONORS 5 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in BIOL 6A, 6AH, 6B, 6C, 6CH, 10 or equivalent.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture, three hours laboratory (84 hours total per quarter).
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. Honors students will complete additional research that will broaden and/or deepen their understanding of biology beyond the expectations of the regular course section.

BIOL 11 Human Biology 5 Units
(Not open to students who have completed BIOL 6A, 6AH, 6B, 6C, 6CH or equivalent.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture, three hours laboratory (84 hours total per quarter).
A general introduction to biology and its principles, with a focus on the human body, public health issues, evolution, and the interactions of humans with the environment. The course will introduce the unifying principles of biology, examine the evolution, anatomy, physiology, and variations of the human body, and the physical and societal roots of disease. It will also emphasize the ways human health concerns impact broader social issues surrounding equity, and diversity, and the ongoing impacts of human-related environmental alterations.

BIOL 13 Marine Biology 5 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture, three hours laboratory (84 hours total per quarter).
A general survey of the ecosystems and diversity of life in the marine environment. An introduction to the sciences of geological, chemical and physical oceanography as the basis to understand the environment where marine organisms exist is included. A comparative approach is used to study the physiological and anatomical adaptations of the different marine organisms to their environment. Compares the ecology of the major marine ecosystems including: the epipelagic, deep sea, hydrothermal vents, intertidal, estuaries, coral reefs and polar regions. Major aspects of evolutionary, cell and molecular theory, and the scientific method are addressed throughout the course.

BIOL 15 California Ecology 5 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture, three hours laboratory (84 hours total per quarter).
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 of California and the impact of pollution, degradation of habitat, and human population on life.

BIOL 26 Introductory Microbiology 6 Units
(See general education pages for the requirement this course meets.)
Prerequisite: (BIOL 40A, 40B and 40C) or (BIOL 6A or 6AH, 6B and 6C or 6CH), or equivalent, all with a grade of C or better.
Four hours lecture, six hours laboratory (120 hours total per quarter).
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 humankind; techniques and methods of microbiology.

BIOL 40A Human Anatomy and Physiology 5 Units
Prerequisite: Satisfactory score on the BIOL 40A Placement Test; or CHEM 1A, 25 or 30A with a grade of C or better.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture, three hours laboratory (84 hours total per quarter).
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: BIOL 40A with a grade of C or better.
Four hours lecture, three hours laboratory (84 hours total per quarter).
Study of the nervous, circulatory, and respiratory systems.

BIOL 40C Human Anatomy and Physiology 5 Units
(See general education pages for the requirements this course meets.)
Prerequisite: BIOL 40A and 40B, with a grade of C or better.
Four hours lecture, three hours laboratory (84 hours total per quarter).
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: (BIOL 40A, 40B and 40C) or (BIOL 6A or 6AH, 6B and 6C or 6CH), or equivalent, all with a grade of C or better.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 ½ Units
(Not open to students with credit in BIOL 6A, 6AH, 6B, 6C or 6CH; or BIOL 40A, 40B or 40C; or equivalent.)
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, one and one-half hours laboratory (30 hours total per quarter).
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 ½ Units
(Not open to students with credit in BIOL 6A, 6AH, 6B, 6C or 6CH; or BIOL 40A, 40B or 40C; or equivalent.)
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, one and one-half hours laboratory (30 hours total per quarter).
Survey of human anatomy and physiology with emphasis on homeostatic limits of the human body. Topics to be discussed include 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 ½ Units
(Not open to students with credit in BIOL 6A, 6AH, 6B, 6C or 6CH; or BIOL 40A, 40B or 40C; or equivalent.)
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, one and one-half hours laboratory (30 hours total per quarter).
Survey of human anatomy and physiology with emphasis on homeostatic limits of the human body. Topics to be discussed include 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 ½ Units
(Not open to students with credit in BIOL 6A, 6AH, 6B, 6C or 6CH; or BIOL 40A, 40B or 40C; or equivalent.)
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, one and one-half hours laboratory (30 hours total per quarter).
Survey of human anatomy and physiology with emphasis on homeostatic limits of the human body. Topics to be discussed include 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
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Individual research in the biological sciences. Specific projects determined in consultation with the instructor. Outside reading and written report required.

BIOL 86 Special Projects in Experimental Biology 1 Unit
BIOL 86X 2 Units
BIOL 86Y 3 Units
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Individual research in experimental methods and the biological sciences. Specific projects determined in consultation with the instructor.

BIOL 87 Special Projects in Biology Education 1 Unit
BIOL 87X 2 Units
BIOL 87Y 3 Units
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Individual development in methods of science education and instructional materials applied the biological sciences. Specific projects determined in consultation with the instructor.

BIOTECHNOLOGY

(See Foothill College catalog.)

BUSINESS

BUS 10 Introduction to Business 5 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
An overview of the forces within the business environment (i.e., globalization, economics, government, technology and society), and an introduction to the key functional areas within the firm, such as marketing, operations, accounting, finance, management and human resources.

BUS 18 Business Law I 5 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5; BUS 10.
Five hours lecture (60 hours total per quarter).
An introduction to the American legal system with a focus on laws applicable to business. Topics include sources of law, law and ethics, the structure of the federal and state court systems, the litigation process, alternative dispute resolution methods, contracts, torts, agency law, intellectual property law, criminal law and process, legal research methods, and forms of business organization.

BUS 21 Business and Society 5 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Five hours lecture (60 hours total per quarter).
An introduction to the study of the interactions and inter-dependencies between business, government and society. The 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 current and future business managers.

BUS 54 Business Mathematics 5 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 210 or equivalent.
Five hours lecture (60 hours total per quarter).
Provides students with a rapid review of basic mathematical operations and concepts in order to improve speed and accuracy, and to introduce and understand its use as a tool to aid in the business and personal finance decision making processes.

BUS 55 Introduction to Entrepreneurship 5 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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 obtaining, managing and financing an independent business. This course will prepare students for developing business plans.

BUS 56 Human Relations in the Workplace 5 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Five hours lecture (60 hours total per quarter).
Human relations behavior in organizations emphasizing personal and interpersonal relationships. Examination of motivation, communication skills, leadership skills, emotional and physical wellness, diversity, and ethical behavior for promoting effectiveness on the job.

BUS 57 Human Resource Management 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; BUS 55.
Four hours lecture (48 hours total per quarter).
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 Business with Social Media 5 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Five hours lecture (60 hours total per quarter).
Affordable methods of social media promotion for businesses. Emphasis on relationship-building, public relations, and event marketing using social and mobile media tactics. A promotion plan for the students' (existing or planned) businesses will be developed.

BUS 60 International Business Management 5 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Five hours lecture (60 hours total per quarter).
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 65 Leadership 5 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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 70 Principles of E-Business 5 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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 85 Business Communication 3 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
Application of writing skills to business communications; public relations functions of business correspondence.

BUS 87 Introduction to Selling 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Application of business and behavioral sciences in a selling environment. Building successful relationships in a culturally diverse world.

BUS 89 Advertising 5 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Advertising as human communication; historic, economic, and social aspects of advertising; why organizations use advertising; role of advertising agency; creative strategy (developing messages through art and copy) and media strategy (deciding where and when to place the messages); development of advertising budgets; analysis and creation of successful advertising campaigns.

BUS 90 Principles of Marketing 5 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Fundamentals of marketing: product planning and development; pricing strategies; and marketing channels.

BUS 91 Introduction to Personal Finance 3 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
Introduction to a range of personal financial planning fundamentals including spending habits, taxes, saving, investing, and insurance. Planning for major life events such as paying for college, buying a home, and retiring comfortably.

BUS 96 Principles of Management 5 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Roles, functions, and responsibilities of management; the external environments and their impact on management.

CAREER LIFE PLANNING

CLP 70 Self-Assessment 4 Units
(See general education pages for the requirement this course meets.)
(Students may enroll in either CLP 70 or CLP 75, but not both, for credit.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Comprehensive approach to career and life planning. 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
(Students may enroll in either CLP 70 or CLP 75, but not both, for credit.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture (24 hours total per quarter).
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.)
Prerequisite: CHEM 25 or CHEM 30A or satisfactory score on the Chemistry Placement Test; MATH 114 or equivalent.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Three hours lecture, six hours laboratory (108 hours total per quarter).
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. An introduction to thermochemistry and a discussion of the first law of thermodynamics.

CHEM 1B General Chemistry 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: CHEM 1A with a grade of C or better.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, six hours laboratory (108 hours total per quarter).
Continuation of an introduction to the principles of chemistry. Investigation of intermolecular forces and their effects on chemical and physical properties. Investigation of reversible reactions from the standpoints of kinetics, thermodynamics, and equilibrium. Investigation and application of gas laws and kinetic molecular theory.

CHEM 1C General Chemistry and Qualitative Analysis 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: CHEM 1B with a grade of C or better.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, six hours laboratory (108 hours total per quarter).
This is the third and final quarter in the year long General Chemistry sequence. In this class, advanced equilibrium concepts pertaining to solubility and buffers will be discussed. This will be followed with an introduction to electrochemistry, the chemistry of transition metals, and nuclear chemistry.

CHEM 10 Introductory Chemistry 5 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture, three hours laboratory (84 hours total per quarter).
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: CHEM 1C with a grade of C or better.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Three hours lecture, six hours laboratory (108 hours total per quarter).
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: CHEM 12A with a grade of C or better.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Three hours lecture, six hours laboratory (108 hours total per quarter).
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: CHEM 12B with a grade of C or better.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Three hours lecture, six hours laboratory (108 hours total per quarter).
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 the characterization of those compounds using chromatography 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 25 Preparation Course for General Chemistry 5 Units
(Formerly CHEM 50.)
Prerequisite: MATH 114 or equivalent.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture, three hours laboratory (84 hours total per quarter).
An introduction to the core theory and problem-solving techniques of chemistry as preparation for CHEM 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 30A Introduction to General, Organic and Biochemistry I 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: MATH 114 or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture, three hours laboratory (84 hours total per quarter).
This is a two-part class to be taken in sequence by students entering allied health fields. The focus of the first part of this class is an introduction to general chemistry. This course begins with a discussion of various measurement tools. This will be followed with a discussion of energy and matter which will be followed by a discussion of the discovery of an atom. The next set of topics will cover an introduction to elements, compounds, and types of bonding in compounds followed by various types of chemical reactions and stoichiometric calculations based on chemical equations. Properties of gases and solutions will be discussed. The course concludes with a discussion of acid-base chemistry and nuclear chemistry.

CHEM 30B Introduction to General, Organic and Biochemistry II 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: CHEM 1A, 25 or 30A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture, three hours laboratory (84 hours total per quarter).
This class is for students entering the allied health fields. The focus of the second part of Introduction to General, Organic, and Biochemistry is organic and biochemistry. The topics included in organic chemistry are: hydrocarbons, alcohols, thiols, ethers, carboxylic acids, esters, amines, and amides. Various physical and chemical properties of these organic substances will be studied along with nomenclature and structural features. The topics included in biochemistry are: carbohydrates, fatty acids and lipids, amino acids and proteins, nucleic acids and DNA. Various physical and chemical properties of these biological molecules will be studied. A brief introduction to metabolism will also be discussed.

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 (36 hours total for each unit of credit per quarter).
Pass-No Pass (P-NP) course.
Individual research in the chemical sciences. Specific projects determined in consultation with the instructor. Outside reading and written report required.

C

CHILD DEVELOPMENT

C D 10G Child Development (The Early Years) 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as PSYC 10G. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
An introductory course that examines the major physical, psychosocial and cognitive/language developmental milestones for children, both typical and atypical, from conception through middle childhood. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages.
(This course meets NAEYC Standards 1 and 3; NBPTS Standards 1 and 4; and CEC Standards 1, 2 and 3.)

C D 10H Child Growth and Development (Middle Childhood and Adolescence) 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as PSYC 10H. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
An introductory course that examines the major physical, psychosocial and cognitive/language developmental milestones for children, both typical and atypical, from school age through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages.
(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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
An introduction to the study of the developing person in a societal context including the interrelationship of family, schools and community. Emphasis on historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families.
(This course meets NAEYC Standards; Standard 2 Building Family and Community Relationship and Standard 5: Becoming a Professional; NBPTS Early Childhood Generalist Standard 2 Equity, Fairness and Diversity, Standard 7 Family, Community Partnerships and Standard 9 Reflective Practice; CEC/DEC Standard 9 Professional and Ethical Practice and Standard 10 Collaboration.)

C D 50 Principles and Practices of Teaching Young Children 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
The underlying theoretical principles of developmentally appropriate practices applied to programs, environments, and teaching strategies, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all young children. Includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics, and professional identity.
(This course meets 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 51A Basic Student Teaching Practicum 5 Units
(Formerly C D 51.)
Prerequisite: C D 10G, 12, 50 and 54.
Two and one-half hours lecture, eight hours laboratory (126 hours total per quarter).
A demonstration of developmentally appropriate early childhood teaching competencies under guided supervision. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children.
(This course meets NAEYC Standards 1, 2, 3, 4, and 5; and NBPTS Standards 1 through 9.)

C D 51B Advanced Student Teaching Practicum 5 Units
Prerequisite: C D 51A.
Two and one-half hours lecture, eight hours laboratory (126 hours total per quarter).
A demonstration of advanced developmentally appropriate early childhood teaching competencies under guided supervision. Students will build on the basic teaching skills in a classroom experience to make more advanced connections between theory and practice, develop professional behaviors, and build a more comprehensive understanding of children and families. Advanced competency will include completing a child assessment.
(This course meets NAEYC Standards 1, 2, 3, 4, and 5; and NBPTS Standards 1 through 9.)

C D 52 Observation and Assessment of Children 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
The appropriate use of assessment and observational strategies to understand and document development and behavior. Recording strategies, rating systems, portfolios, and multiple assessment tools are explored.
(This course meets NAEYC Standards 3a-3d; NBPTS Standards 3 and 4; DEC Standard 8 Assessment; CA Early Childhood Educator Competency Focus 1: Observation, Screening, Assessment and Documentation; CA ECE/Infant Family Early Childhood Mental Health Competencies Areas B and E.)

C D 53 Creative Art for the Young Child 3 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
An 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 4 Units
Prerequisite: C D 10G (may be taken concurrently).
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Curriculum development with emphasis on planning curriculum that is emergent, developmentally and individually appropriate and inclusive for all young children through age 6. Students will examine the teacher's role in supporting development by using observation and assessment strategies and emphasizing the essential role of play. Curricular areas included to be explored are: language and literacy, social and emotional learning, sensory learning, art and creativity, and math and science.
(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: C D 10G and/or C D 50.
Three hours lecture (36 hours total per quarter).
Theories of language acquisition and the process of language development in young children. 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; NBPTS Standards 1-10 for ECE-Middle Years; DEC/CEC standards 1-8; and CA ECE Standards 1, 2, 5 and 8.)

C D 56 Understanding and Working with English Learners 3 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
Developmental and cultural examination of the dual language learner in early childhood programs. Theories and developmental sequence of bilingual language acquisition. Role of teacher and methods for supporting the young English learner.
(This course meets National Association for the Education of Young Children (NAEYC) Standard 4b: Teaching and learning: Using developmentally effective approaches; National Board for Professional Teaching Standards (NBPTS) Early childhood/ Generalist Standard II: Equity, Fairness and Diversity; Council for Exceptional Children (CEC) Special Education Content Standards, Standard 2: Development & Characteristics of Learners; Standard 6: Language. California Early Child Educators Competencies: Culture, Diversity and Equity and Dual Language Development.

C D 57 Self-Assessment for Teachers of Young Children Using Reflective Practice: Field Experience 5 Units

Prerequisite: C D 10G or PSYC 10G.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture, ten hours laboratory (144 hours total per quarter).
An examination of the use of self-assessment and reflective practice techniques for individualized teacher preparation with emphasis on specific types of environments, interactions that support the development of children's social-emotional, cognitive, and early academic skills. Student will use field placement to practice and develop skills.
(This course meets NAEYC Standards 1, 2, 3, 4 and 5; NBPTS Standards 1 and 4; CEC Standards 2, 4, 5, 7, 9 and 10 and ECE Competencies Standards 1, 3, 4 and 7.)

C D 58 Infant/Toddler Development 5 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Study of physical, cognitive, language, social and emotional development from preconception to age three, with emphasis on cultural diversity, the role of family and relationships in development. Application of theoretical frameworks to interpret behavior and the interaction between heredity and environment. Program and Individualized Family Service Plan planning based on observation of infants and communication with parents will be explored. Ways to implement assessment tool results (such as from Desired Results Developmental Profile and/or Ages and Stages surveys) will be discussed. Methods for infant and toddler care routines, the role of administration, and interpretation of observations will be explored. Best practices, responsive care giving techniques, environments, infant/toddler foundations, health, safety, and licensing requirements will be examined.
(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

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
An introduction to the administration of early childhood programs. Covers program types, budget, management, regulations, laws, development and implementation of policies and procedures. Examines administrative tools, philosophies, and techniques needed to organize, open, and operate an early care and education program.
(This course meets NAEYC Standard 6 and California ECE Competencies: Administration & Supervision.)

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 C D 10G.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
A study of the methods and principles of supervision and management as they apply to administration of programs in early childhood settings. Emphasis is on personnel management, supervision styles and skills, interpersonal communication, ethical and professional standards and an awareness of the sociopolitical context of early childhood programs.
(This course meets NAEYC Standard 6.)

C D 60 Exceptional Children 3 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
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 resources, assessment and screening, working with diverse families, and knowing how to work with interdisciplinary teams to promote the development of children with special needs. Discusses implementation of state and federal laws (IDEA and ADA), as well as examination and reflection on attitudes and feelings about exceptionality.

C D 61 Music and Movement (Developmental Foundations) 3 Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
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.
(This course meets the NAEYC Standards 2,3 and 4; CCA Standards 3, 7, 8 and 11; NBPTS Standards 1, 2, 3 and 4.)

C D 63 Math and Science Activities for the Young Child 3 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
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 4 Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Introduction to the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus is put on integrating the concepts into everyday planning and program development for all children.
(This course meets the California State requirements for health,safety and nutrition, NAEYC Standard 5; 5a, 5b and 5c; Standard 9; 9a, 9b, 9c and 9d, NBPTS Standards 1, 3 and 4 and CEC Standards 1, 2 and 3.)

C D 67 Supervision and Administration of Child Development Programs (Adult Supervision) 3 Units

Prerequisite: C D 10G, 12 and 54.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
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 4 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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. Course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling.
(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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
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.
(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)

C D 70 Seminar in Parenting the Preschool Child 1 Unit

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
Pass-No Pass (P-NP) course.
A seminar for parents, teachers and other adults interested in the parenting of children, primarily (but not exclusively) two to five years old. Students will explore and examine the ways to strengthen families. Students will also learn about optimal environments to support the healthy growth and development of children and parents.
(This course meets NAEYC Standard 2; NBPTS Standard 7; and DEC/CEC Standard 3.)

C D 71 Constructive Guidance and Positive Discipline in Early Childhood 3 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
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; NBPTS Standard 2; and EIA Reflective Practice 2,3,8,9.)

C D 72 Partnerships with Families in Early Childhood Education 3 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
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; NBPTS Generalist Standard VII; CEC/DEC Standard 10; and CA Early Childhood Competencies: Family and Community Engagement, and Relationships, Interaction and Guidance.)

C D 73 Early Childhood Mental Health 3 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
Examination of mental health milestones at each stage of a child's development. Overview of psychological theory in infant/early childhood mental health. Assessment and screening to identify early childhood mental health challenges. Implementation of mental health interventions and strategies. An exploration of how early experiences in the first five-years of life can impact the physical and psychological development and well-being of children throughout the lifespan.
(This course meets National Association for the Education of Young Children (NAEYC) Standard 1: Promoting Child Development and Learning; Standard 3: Observing, Documenting and Assessing to Support Young Children and Families; National Board for Professional Teaching Standards (NBPTS) Early Childhood/General Standards, 2nd Ed. Standard I: Understanding Young Children, Standard III: Assessment, Standard VI: Multiple Teaching Strategies for Meaningful Learning; and Council for Exceptional Children (CEC) Special Education: Standard 2: Development and Characteristics of Learners, Standard 4 Instructional Strategies.) California Early Child Educators Competencies: Relationships, Interactions,and Guidance and Preschool Learning Foundations Vol 1- Child Development.)

C D 74 Early Childhood Mental Health Seminar and Fieldwork 3 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture, three hours laboratory (60 hours total per quarter).
Provides an overview of different approaches to early identification and 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.
(This course meets National Association for the Education of Young Children (NAEYC) Standard 3, Standard 4b; National Board for Professional Teaching Standards (NBPTS) Early Childhood/Generalist Standard I, III, VI, IX; and Council for Exceptional Children (CEC) Special Education Content Standards, Standards 4, 5 and 8.)

C D 75 Social Emotional Development in Early Childhood 3 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
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; NBPTS Standards 1 and 4; the California Early Start Early Intervention Assistant competencies; and the California Personnel Competencies in Infant-Family and Early Childhood Mental Health.)

C D 77 Special Projects in Child Development ½ Unit
C D 77W 1 Unit
C D 77X 2 Units
C D 77Y 3 Units

Prerequisite: Consent of instructor and division dean.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Offers an in-depth exploration of a special topic, issue or trend in the early childhood education field. It involves researching 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. Meets the variable needs of students, the early childhood industry and community, and responds to a current issue, technique, or discourse.
(This course meets NAEYC Standard 4c, Understanding Content Knowledge in ECE and Standard 5, Becoming a Professional; NBPTS Standards IX, Reflective Practice; and DEC-CEC Standard 9 Professional & Ethical Practice; ECE Competencies Professionalism.)

C D 80 Design, Program Development, and Daily Operation of Family Child Care 3 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
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.
(This course meets NAEYC Standards 1, 2, 3, 4, and 5; NBPTS Standards 1, 2, 3 and 4; CCA Standards 1, 2, 6, 7, 8, 9, 11 and 12.)

C D 90 Facilitating Inclusion in Early Childhood Programs: Intervention Strategies 3 Units

Prerequisite: C D 10G and C D 60.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
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; California Early Childhood Educator Competencies: Competency Area 7: Performance Areas: 1-4; California Interagency Coordination Council in Early Intervention, Early Intervention Assistant level competencies.)

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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).
In-service workshop for teachers, aides, and parent volunteers to increase awareness of contemporary professional issues in Child Development. Topics will vary based on the contemporary issues in Child Development and professional practice in the field of education.

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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).
In-service workshop for teachers, aides, and parent volunteers to improve skills and knowledge in the area of curriculum for child development personnel. Topics will vary depending on subject matter relating 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).
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. Topics will vary.

COMMUNICATION STUDIES

(Formerly Speech Communication)

COMM 1 Public Speaking 5 Units

(Formerly SPCH 1.)
(See general education pages for the requirement this course meets.)
(Not open to students with credit in COMM 1H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Five hours lecture (60 hours total per quarter).
Theory and techniques of public speaking in a democratic society. An introduction to a variety of perspectives and approaches used to research, assess, organize, present, and evaluate public presentations. Students will develop and apply effective research strategies.

COMM 1H Public Speaking - HONORS 5 Units

(Formerly SPCH 1H.)
(See general education pages for the requirement this course meets.)
(Not open to students with credit in COMM 1.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Five hours lecture (60 hours total per quarter).
Theory and techniques of public speaking in a democratic society. An introduction to a variety of perspectives and approaches used to research, organize, present, and evaluate public presentations. Students will develop and apply effective research strategies. As an honors course students will be expected to complete extra assignments to gain deeper insight in speech communication.

COMM 7 Intercultural Communication 4 Units
(Formerly SPCH 7.)
(See general education pages for the requirement this course meets.)
(Not open to students with credit in ICS 7 or ICS 7H or COMM 7H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ICS 7. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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.

COMM 7H Intercultural Communication - HONORS 4 Units
(Formerly SPCH 7H.)
(See general education pages for the requirement this course meets.)
(Not open to students with credit in ICS 7 or ICS 7H or COMM 7.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ICS 7H. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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. As an honors course students will be expected to complete additional assignments to gain deeper insight in Intercultural Studies with an emphasis on interdisciplinary connections with Communication Studies.

COMM 8 Argumentation and Critical Inquiry in Oral Communication 5 Units
(Formerly SPCH 8.)
(See general education pages for the requirement this course meets.)
(Not open to students with credit in COMM 8H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5; COMM 1, 1H, 10 or 10H.
Five hours lecture (60 hours total per quarter).
Principles and methods of critical inquiry, advocacy, and debate. Students will critically evaluate research sources and evidence; identify fallacies in reasoning and language; advance reasoned positions with consideration to ethical and equitable practices; and defend and refute arguments through analysis, presentation, and evaluation of arguments.

COMM 8H Argumentation and Critical Inquiry in Oral Communication - HONORS 5 Units
(Formerly SPCH 8H.)
(See general education pages for the requirement this course meets.)
(Not open to students with credit in COMM 8.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5; COMM 1, 1H, 10 or 10H.
Five hours lecture (60 hours total per quarter).
Principles and methods of critical inquiry, advocacy, and debate. Students will critically evaluate research sources and evidence; identify fallacies in reasoning and language; advance reasoned positions with consideration to ethical and equitable practices; and defend and refute arguments through analysis, presentation, and evaluation of arguments. As an honors course students will be expected to complete additional assignments to gain deeper insight in argumentation and critical inquiry.

COMM 9 Argumentation: Analysis of Oral and Written Communication 5 Units
(Formerly SPCH 9.)
(See general education pages for the requirement this course meets.)
Prerequisite: EWRT 1A or EWRT 1AH.
Advisory: COMM 1, 1H or 10.
Five hours lecture (60 hours total per quarter).
Critical reading, writing, and thinking. Research strategies, documentation, critical analysis, and synthesis in the process of evaluating and constructing oral and written arguments will be applied.

COMM 10 Fundamentals of Oral Communication 5 Units
(Formerly SPCH 10.)
(See general education pages for the requirement this course meets.)
(Not open to students with credit in COMM 10H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Five hours lecture (60 hours total per quarter).
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. Students will develop and apply effective research strategies.

COMM 10H Fundamentals of Oral Communication - HONORS 5 Units
(Formerly SPCH 10H.)
(See general education pages for the requirement this course meets.)
(Not open to students with credit in COMM 10.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Five hours lecture (60 hours total per quarter).
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. Students will develop and apply effective research strategies. As an honors course, students will be expected to complete additional assignments to gain deeper insight in communication studies.

COMM 15 Critical Decision-Making in Groups 5 Units
(Formerly SPCH 15.)
(See general education pages for the requirement this course meets.)
(Not open to students with credit in COMM 15H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5; COMM 1, 1H, 10 or 10H.
Five hours lecture (60 hours total per quarter).
Study in communication and critical decision making in the context of effective group problem solving with an emphasis on principles of sound reasoning to make a well-reasoned decision. This course explores theory, application, and evaluation of group communication processes, including problem solving, conflict management, decision making, and leadership, with the goal of understanding different points of view in an increasingly diverse and interconnected global society.

COMM 15H Critical Decision-Making in Groups - HONORS 5 Units
(Formerly SPCH 15H.)
(See general education pages for the requirement this course meets.)
(Not open to students with credit in COMM 15.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5; COMM 1, 1H, 10 or 10H.
Five hours lecture (60 hours total per quarter).
A study in communication and critical decision making in the context of effective group problem solving with an emphasis on principles of sound reasoning to make a well-reasoned decision. This course explores theory, application, and evaluation of group communication processes, including problem solving, conflict management, decision making, and leadership, with the goal of understanding different points of view in an increasingly diverse and interconnected global society. As an honors course students will be expected to complete additional assignments to gain deeper insight in critical decision making and group problem solving.

COMM 16 Interpersonal Communication 5 Units
(Formerly SPCH 16.)
(See general education pages for the requirement this course meets.)
(Not open to students with credit in COMM 16H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5; COMM 1, 1H, 10 or 10H.
Five hours lecture (60 hours total per quarter).
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 of maintaining effective relationships in an increasingly diverse and interconnected global society.

COMM 16H Interpersonal Communication - HONORS 5 Units
(Formerly SPCH 16H.)
(See general education pages for the requirement this course meets.)
(Not open to students with credit in COMM 16.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5; COMM 1, 1H, 10 or 10H.
Five hours lecture (60 hours total per quarter).
A 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 of maintaining effective relationships in an increasingly diverse and interconnected global society. As an honors course students will be expected to complete additional assignments to gain deeper insight in communication studies.

COMM 70 Effective Organizational Communication 5 Units
(Formerly SPCH 70.)
(See general education pages for the requirement this course meets.)
(Not open to students with credit in COMM 70H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Five hours lecture (60 hours total per quarter).
A study of contemporary concepts relevant to the meanings and functions of communication in organizations. Impact of communication, leadership, information technology, ethics, and globalization on organizational effectiveness. Students develop and apply research strategies to analyze a specific organization. Emphasizes development of communication skills useful for working productively in dynamic, collaborative, multicultural work environments.

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COMM 70H Effective Organizational Communication - HONORS 5 Units
(Formerly SPCH 70H.)
(See general education pages for the requirement this course meets.)
(Not open to students with credit in COMM 70.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Five hours lecture (60 hours total per quarter).
A study of contemporary concepts relevant to the meanings and functions of communication in organizations. Impact of communication, leadership, information technology, ethics, and globalization on organizational effectiveness. Students develop and apply research strategies to analyze a specific organization. Emphasizes development of communication skills useful for working productively in dynamic, collaborative, multicultural work environments. As an honors course students will be expected to complete additional assignments to gain deeper insight in organizational communication.

COMM 77W Special Individual Projects in Speech Communication 1 Unit
COMM 77X 2 Units
COMM 77Y 3 Units
COMM 77Z 4 Units
(Formerly SPCH 77, 77X, 77Y and 77Z respectively.)
Prerequisite: Consent of instructor and division dean.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Individual special reading, writing, presentation, facilitation, and/or community service/civic engagement leadership projects in Speech Communication as determined in consultation with the instructor.

COMM 78W Special Topics in Speech Communication 1 Unit
COMM 78X 2 Units
COMM 78Y 3 Units
COMM 78Z 4 Units
(Formerly SPCH 78W, 78X, 78Y and 78Z respectively.)
Advisory: COMM 1, 1H or 10.
One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter). Complete a minimum of three hours work outside of class for each unit/hour in class.
Examination of selected topics relating to the Speech Communication discipline. Subject matter will vary. Some courses may involve a service learning component.

COMPUTER INFORMATION SYSTEMS

CIS 2 Computers and the Internet in Society 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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 4 Computer Literacy 4 ½ Units
(Formerly CIS 93.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Introduction to basic computer literacy concepts. History of the computer, hardware, software, operating system mechanics, system management utilities, basics of networking and the internet. The social impact and future of computers for communication systems are discussed along with an overview of basic security and privacy concerns. An integrated software package for word processing, spreadsheets, databases, e-mail, Internet and presentations are introduced.

CIS 14A Visual Basic .NET Programming I 4 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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 ½ Units
Prerequisite: CIS 14A or equivalent.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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 18A Introduction to Unix/Linux 4 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 4.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211) or ESL 272 and 273; CIS 14A or 15AG or 22A and CIS 18A.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Expanded coverage of regular expressions and grep. Advanced topics in Unix/Linux include sed, awk, file compression and conversion, make, basic shell scripts and installation of a Linux distribution.

CIS 18C Shell Programming 4 ½ Units
Prerequisite: CIS 18B.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Programming in bash shell, Korn shell, Bourne shell, tc shell and C shell.

CIS 21JA Introduction to x86 Processor Assembly Language and Computer Architecture 4 ½ Units
Prerequisite: CIS 22B, 22BH or 26A.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Introduction to the syntax and semantics of the x86 processor assembly language, standard instruction set, selected macros and directives, x86 architecture.

CIS 21JB Advanced x86 Processor Assembly Programming 4 ½ Units
Prerequisite: CIS 21JA.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 210 or equivalent.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Coverage of theory and application of advanced assembly programming techniques, with emphasis on multi-module programs, interrupt level programming, recursive and re-entrant techniques, floating point processing, interface with the OS and high level language.

CIS 22A Beginning Programming Methodologies in C++ 4 ½ Units
(Students may receive credit for either (CIS 22A and CIS 22B/22BH) or CIS 27.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 114 or equivalent.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
The fundamental constructs of programming and introduces the concept of object oriented programming is covered in the course. Its primary objective is to teach problem solving using the C++ programming language. Emphasis will be placed on structured procedural programming with an introduction to object-oriented programming. Designed primarily for computer science and related transfer majors.

CIS 22B Intermediate Programming Methodologies in C++ 4 ½ Units
(Not open to students with credit in CIS 22BH.)
(Students may receive credit for either (CIS 22A and CIS 22B/22BH) or CIS 27.)
Prerequisite: CIS 22A.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
A systematic approach to the design, construction and management of computer programs, emphasizing design, programming style, documentation, testing and debugging techniques. Strings, multidimensional arrays, structures, and classes. Pointers: their use in arrays, parameters and dynamic allocation. Introduction to linked lists. Software engineering and computer science students are the targeted group.

CIS 22BH Intermediate Programming Methodologies in C++ - HONORS 4 ½ Units
(Not open to students with credit in CIS 22B.)
(Admission into this course requires consent of the Honors Program Coordinator.)
(Students may receive credit for (CIS 22A and CIS 22B/22BH) or CIS 27.)
Prerequisite: CIS 22A.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
A systematic approach to the design, construction and management of computer programs, emphasizing design, programming style, documentation, testing and debugging techniques. Strings, multidimensional arrays, structures, and classes. Pointers: their use in arrays, parameters and dynamic allocation. Introduction to linked lists. As an honors course the students are expected to complete extra assignments to gain deeper insight in working with structures, classes, and linked lists. Software engineering and computer science students are the targeted group.

CIS 22C Data Abstraction and Structures 4 ½ Units
(Not open to students with credit in CIS 22CH.)
Prerequisite: CIS 22B, 22BH or 35A.
Advisory: MATH 212 or equivalent.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Application of software engineering techniques to the design and development of

large programs; data abstraction and structures and associated algorithms: stacks, queues, linked lists, trees, graphs, and hash tables; internal and external sorting; use of recursion; team project.

CIS 22CH Data Abstraction and Structures - HONORS 4 ½ Units

(Not open to students with credit in CIS 22C.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Prerequisite: CIS 22B, 22BH or 35A.
Advisory: MATH 212 or equivalent.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Application of software engineering techniques to the design and development of large programs; data abstraction and structures and associated algorithms: stacks, queues, linked lists, trees, graphs, and hash tables; internal and external sorting; use of recursion; team project. As an honors course the students will be expected to complete extra assignments to gain deeper insight in design and implementation of data structures.

CIS 26A C as a Second Programming Language 4 ½ Units

(This course is intended for students who are competent in another programming language.)
Prerequisite: An Introductory Programming Language course such as CIS 22A or 36A or equivalent.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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, character and string manipulation, arithmetic expressions, functions and program modularization, arrays, pointers, structures, and linked lists.

CIS 26B Advanced C Programming 4 ½ Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; CIS 22B, 22BH or 26A.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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/Java Programmers 4 ½ Units

(Students may receive credit for (CIS 22A and CIS 22B/22BH) or CIS 27.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 26A.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
A comprehensive introduction to the C++ programming language and its applications.

CIS 28 Object Oriented Analysis and Design 4 ½ Units

Advisory: CIS 22B, 22BH, 27 or 35A or equivalent experience.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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 ½ Units

Prerequisite: (CIS 22B or CIS 22BH) or CIS 27 or equivalent.
Advisory: MATH 212 or equivalent.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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 ½ Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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 ½ Units

Prerequisite: CIS 30A.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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: CIS 21JA and (CIS 22B or CIS 22BH).
Five hours lecture (60 hours total per quarter).
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 ½ Units

Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; CIS 18A and either CIS 15BG, 22B, 22BH or 26A.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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 scooping, 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 ½ Units

Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; CIS 33A and either CIS 15BG, 22B, 22BH or 26A.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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 Java Programming 4 ½ Units

(Students may receive credit for either (CIS 36A and 36B) or CIS 35A.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 22B, 22BH, 26A or 27.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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 ½ Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 35A.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Emphasis on foundation technologies in Java that enable you to write server side programs in Java. Concepts include inner classes, exceptions, file I/O, reflections, cloning, multi-threading, Web Programming with Java Server Pages, Servlets, JavaServer Faces and JavaBeans.

CIS 36A Introduction to Computer Programming Using Java 4 ½ Units

(Formerly CIS 61A.)
(Students may receive credit for either CIS 36A and 36B, or CIS 35A, but not both.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 114 or equivalent.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
An introduction to computer programming. The primary objective is to teach problem solving using the Java programming language. Emphasis will be placed on structured procedural programming with an introduction to object-oriented programming. Designed primarily for computer science and related transfer majors.

CIS 36B Intermediate Problem Solving in Java 4 ½ Units

(Formerly CIS 61B.)
(Students may receive credit for either CIS 36A and 36B, or CIS 35A, but not both.)
Prerequisite: CIS 36A.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
A systematic approach to the design, construction and management of computer programs, emphasizing design, programming style, documentation, testing and debugging techniques. Strings, multi-dimensional arrays and Classes. References: their use in arrays, parameters and containment. Introduction to linked lists.

CIS 40 Introduction to Programming in Python 4 ½ Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 114 or equivalent.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
A hands-on introduction to computation through programming and problem solving. Using the popular Python programming language, students will learn software engineering concepts and basic programming constructs while creating graphical applications.

CIS 41A Python Programming 4 ½ Units

Prerequisite: CIS 22A or 36A or 40.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
A complete introduction to the Python language. Topics covered include: primitive and collection data types, operators and statements, loops and branching, functions and variable scoping, modules and packages, object oriented programming, file handling, regular expressions and exception handling

CIS 41B Advanced Python Programming 4 ½ Units

Prerequisite: CIS 41A.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
A Python course designed for the professionals. The course picks up where CIS 41A, Python Programming, left off, covering some topics in more detail, and adding more advanced topics. Regular expressions and classes are covered extensively along with with network programming (FTP, Web client and server), graphical programming, database access, and Python extensions.

CIS 50 Introduction to Computers, Data Processing, and Applications 3 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
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 Java for Mobile Development 4 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 35A.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Mobile application development using Android features including: Android development tools, activities and intents, pictures and menus, data persistence, messaging and networking, and rich media features.

CIS 55 iOS Development 4 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 22A or CIS 36A.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Introduction to native object-oriented programming language Swift and basic design patterns for doing development on devices running iOS. Understand core API's to construct powerful applications.

CIS 56 Network Security 4 ½ Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; CIS 108.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Provides broad-based knowledge and hands-on experience with network security. Security topics include access control, cryptography, policies, physical, network, application, data defenses,auditing and security protocols. Also, course can help prepare students to pass the CompTIA Security+ Certification exam.

CIS 57 Web Site Administration 4 ½ Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; CIS 66 and 89A.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Introduction to establishing, configuring, managing and controlling access to Internet servers.

CIS 63 Systems Design 4 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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 Database Management Systems 4 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 15BG, 22B or 22BH.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Rudiments of database design, implementation and use. Basic understanding of various data modeling techniques. Overview and comparison of database management systems. Emphasis on relational databases; introduction to SQL.

CIS 64B Introduction to SQL 4 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 64A.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 64B.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 64C.
Three hours lecture (36 hours total per quarter).
Emphasis on importance of Performance Tuning, techniques for tuning several Oracle components, optimizing database for high volume transactions and Data Warehouses.

CIS 64E Introduction to Large Scale Processing Systems 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Addresses fundamental challenges in the design, implementation and deployment of large-scale distributed systems. Concepts covered include concurrency, synchronization, connection establishment, event handling, inter process communication, storage management, and service registration, discovery, and lookup. It also covers issues related to distributed objects such as life cycle management, mobility, security, naming, location, evolution, and autonomy.

CIS 64F Introduction to Big Data and Analytics 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Introduction to Big-Data deluge, management of unstructured and structured data and design of large scale database systems. Concepts covered include Map-reduce parallel processing algorithms, Real-time analytics and Predictive analytics, attributes of Big-Data and related issues. Introduction to large scale file systems and operations and parallel processing algorithms.

CIS 66 Introduction to Data Communication and Networking 5 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; CIS 3 or CIS 50.
Five hours lecture (60 hours total per quarter).
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: CIS 66.
Four hours lecture (48 hours total per quarter).
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 Fast Traditional Ethernet, Fast Ethernet, Gigabit Ethernet, Ten-Gigabit Ethernet, ATM, and wireless LANs.

CIS 67B Introduction to Wide Area Networking 4 Units
Advisory: CIS 67A.
Four hours lecture (48 hours total per quarter).
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 4 ½ Units
Prerequisite: CIS 18A and CIS 26B.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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 ½ Units
Advisory: CIS 50.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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
Prerequisite: CIS 66.
Advisory: CIS 22A, 26A, 36A or 40; EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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 ½ Units
Prerequisite: CIS 26B.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 75A.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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 75D Enterprise Security Policy Management 3 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 75A or equivalent experience.
Two hours lecture, three hours laboratory (60 hours total per quarter).
Concepts of how to secure an enterprise by creating a security policy and developing procedures to maintain that security policy. 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
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture (24 hours total per quarter).
An exploration of 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 77 Special Projects in Computer Information Systems 1 Unit
CIS 77X 2 Units
CIS 77Y 3 Units
Prerequisite: Consent of instructor and division dean.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter). (Hours to be individually arranged.)
Design, implement, and document a special computer programming project.

CIS 79 Managing Technology Projects 4 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
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 82W Current Topics in Computer Information Systems 1 Unit
CIS 82X 2 Units
CIS 82Y 3 Units
CIS 82Z 4 Units
Credit course - Does not apply to De Anza associate degree.
Requisite/Advisory: None.
One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).
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.

CIS 83 Open Computer Information Systems Laboratory ½ Unit
Co-requisite: CIS 82W, 82X, 82Y or 82Z.
One and one-half hours laboratory (18 hours total per quarter).
Pass-No Pass (P-NP) course.
Use of the computer laboratory facilities in conjunction with a Computer Information Systems programming class.

CIS 89A Web Page Development 3 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 18A.
Two hours lecture, three hours laboratory (60 hours total per quarter).
Fundamentals of Web page design and creation: designing, encoding, and maintaining pages on the World Wide Web using HTML and CSS.

CIS 89C Client-Side Programming with JavaScript 4 ½ Units
Advisory: CIS 89A and 14A or CIS 22A.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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 89D Rich Internet Application Development 4 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 89C.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Design and develop applications that deliver the same features and functions normally associated with desktop applications using technologies like HTML5.

CIS 95A Project Management - A Practicum 5 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Focus is placed on the role of 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
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 95A or equivalent.
Four hours lecture (48 hours total per quarter).
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
Advisory: EWRT 211 and READ 211 (or LART 211), experience. or ESL 272 and 273; CIS 95A or equivalent.
Four hours lecture (48 hours total per quarter).
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
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 95A or equivalent.
Three hours lecture (36 hours total per quarter).
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
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 95A or equivalent.
Four hours lecture (48 hours total per quarter).
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 95F Managing Cloud Projects 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Establish the Cloud strategy within a business context and focus on governance issues and business processes; the administration of Cloud services; support, monitoring, and billing; documenting a Cloud strategy, which optimizes expense structure, improves security, and supports conformance; standards and protocols for the Cloud; and management of devices that connect to the Cloud.

CIS 95G Agile Project Management - A Practicum 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Learn how to apply Agile principles and the Scrum framework to create software-intensive products and acquire the practical knowledge and skills to initiate, plan, manage and execute Agile software development projects.

CIS 97 FLASH Animation 3 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Three hours lecture (36 hours total per quarter).
Application of animation and video support for production of dynamic website development. The course provides hands-on experience to design video and animation used within a website. Flash Animation is an industry standard software program for business development, educational content delivery, video platform delivery as well as media and news streaming on the web.

CIS 98 Digital Image Editing Software (Photoshop) 4 ½ Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Digital imaging principles to produce graphics for websites and print. Hands-on experience with the elements and tools to set up files, manage documents, and perform image processing.

CIS 99 Office Software Applications 4 ½ Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Introduces concepts and hands-on projects using four common office productivity software programs including word processing, spreadsheet, database and presentation software.

CIS 102 Ethical Hacking 4 ½ Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; CIS 66 and 108.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Students will scan, test, hack and secure systems. Implement perimeter defenses, scan and attack virtual networks. Other topics include intrusion detection, social engineering, footprinting, DDoS attacks, buffer overflows, SQL injection, privilege escalation, trojans, backdoors and wireless hacking. Legal restrictions and ethical guidelines emphasized. This course also helps prepare students to pass the Certified Ethical Hacker (C|EH) exam.

CIS 104 Digital Forensics and Hacking Investigation 4 ½ Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; CIS 108.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Introduction to computer cyber crime and hacking investigation processes. Topics include computer forensics tools, hacking investigation tools, data recovery, information gathering techniques, computer data preservation techniques, and computer cyber crime investigation techniques. System administrators, security professionals, IT staff, and law enforcement personnel, would benefit from taking this course. Also, this course can help prepare students to pass computer forensics certification examinations, such as the EC-Council Computer Hacking Forensic Investigator (CHFI) or the Certified Forensic Computer Examiner (CFCE) credential.

CIS 108 Personal Computer Security Basics 4 ½ Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
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 170F Windows Administration 4 ½ Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; CIS 4.
Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).
Provides knowledge and skills to setup, configure, use, and support the Microsoft Windows server and workstation operating systems. Windows features including installing, upgrading, configuring and troubleshooting will be covered. Concepts on how to configure Windows security, file sharing, storage, DHCP, DNS, Active Directory, network connectivity and subsystems. Additional topics include learning how to use Windows built-in applications.

COUNSELING

COUN 50 Introduction to College 1 Unit
(Formerly COUN 200X.)
Credit course - Does not apply to De Anza associate degree.
Advisory: Counseling Division orientation workshop.
One hour lecture (12 hours total per quarter).
Pass-No Pass (P-NP) course.
An introduction to De Anza College that includes information about programs, services, policies, degrees, certificates, transfer requirements, and college culture. Focus will be on strategies needed for academic success and development of a preliminary Comprehensive Educational Plan.

COUN 80X Special Topics in Counseling 1 Unit
COUN 80Y 2 Units
COUN 80Z 3 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).
Selected counseling topics with a focus on academic and personal development.

DANCE

DANC 22 Body Awareness and Conditioning for Dancers 1 Unit
(See general education pages for the requirement this course meets.)
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Ballet and Conditioning Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Principles of dance and conditioning through floor work derived from ballet, contemporary dance and other psycho-physical disciplines. Topics may include but are not limited to: body mechanics, muscle groups critical to dance, flexibility, alignment, self-assessment, dance injury prevention, and strengthening the mind-body connection.

DANC 22K Theory and Technique of Ballet I 1 Unit
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Ballet and Conditioning Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Introduction to the discipline and creative art of classical ballet, focusing on the development of elementary movement theory and techniques, including ballet barre and elementary center floor exercises.

DANC 22L Theory and Technique of Ballet II 1 Unit
(See general education pages for the requirement this course meets.)
Prerequisite: DANC 22K.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Ballet and Conditioning Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Study and practice of the discipline and creative art of classical ballet, focusing on barre and center floor work, along with the acquisition of a working ballet vocabulary at a beginning level.

DANC 22M Theory and Technique of Ballet III 1 Unit
(Formerly DANC 52M.)
(See general education pages for the requirements this course meets.)
Prerequisite: DANC 22L.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Ballet and Conditioning Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Study and practice of the discipline and creative art of classical ballet, combining: traditional techniques 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Dance Technique Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Introduction to the discipline and creative art of contemporary modern dance. Students will be instructed in one particular contemporary dance technique (i.e. Limon, Graham Hawkins etc.).

DANC 23B Theory and Technique of Contemporary (Modern) Dance II 1 Unit
(See general education pages for the requirement this course meets.)
Prerequisite: DANC 23A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Dance Technique Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Study and practice of the discipline and creative art of contemporary dance focusing on practice, theory, technique, and movement explorations in time and space, in two contemporary dance techniques (i.e. Limon, Graham, etc.).

DANC 23C Theory and Technique of Contemporary (Modern) Dance III 1 Unit
(Formerly DANC 53C.)
(See general education pages for the requirement this course meets.)
Prerequisite: DANC 23A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Dance Technique Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
The discipline and creative art of contemporary dance focusing on practice, theory, technique, and movement explorations in time and space, developing a working intermediate dance vocabulary in three contemporary dance techniques (i.e. Limon, Graham, Dunham).

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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Social/Cultural Dance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.)
Prerequisite: DANC 23L.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Social/Cultural Dance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Explorations in the discipline of creative arts through the theory and practice of hip-hop dance intermediate 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 dance vocabulary and performance skills.

DANC 23N Theory and Technique of Hip-Hop III (Popular American Dance III) 1 Unit
(See general education pages for the requirement this course meets.)
Prerequisite: DANC 23M.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Social/Cultural Dance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Explorations in the discipline of Creative Arts through the theory and practice of hip-hop dance 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 abdominal muscles 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 dance 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Social/Cultural Dance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.)
Prerequisite: DANC 24A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Social/Cultural Dance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Study of the discipline and creative art of social dance, part two. 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 dances.

DANC 24C Theory and Technique of Social Dance III 1 Unit
(See general education pages for the requirement this course meets.)
Prerequisite: DANC 24B.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Social/Cultural Dance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
The art of social dance at the advanced level. Expanded 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 25A Theory and Technique of Salsa Dance I 1 Unit
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Social/Cultural Dance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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 25B Theory and Technique of Salsa Dance II 1 Unit
(Formerly DANC 65B.)
(See general education pages for the requirement this course meets.)
Prerequisite: DANC 25A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Social/Cultural Dance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An intermediate discipline follows on the creative art skills learned in Dance 25A, Theory and Technique of Salsa Dance I. Exposure to intermediate 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 Ballet Workshop (Student Productions) 2 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Six hours laboratory (72 hours per quarter).
(This course is included in the Dance Performance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the ballet techniques of production and performance.

DANC 27B Contemporary Modern Dance Workshop (Student Productions) 2 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Six hours laboratory (72 hours per quarter).
(This course is included in the Dance Performance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the contemporary dance techniques of production and performance.

DANC 27C Popular Dance (Jazz, Hip-Hop) Workshop (Student Productions) 2 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Six hours laboratory (72 hours per quarter).
(This course is included in the Dance Performance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the popular dance (jazz,hip-hop) techniques of production and performance.

DANC 27D Social Dance Workshop (Student Productions) 2 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Six hours laboratory (72 hours per quarter).
(This course is included in the Dance Performance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the social dance techniques of production and performance.

DANC 37A Theory and Technique of Jazz Dance I 1 Unit
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Dance Technique Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Introduction to the discipline and creative art of jazz dance. Body conditioning, exposure to the history of major American artists, and their works. The development of a working vocabulary; and practice of elementary jazz dance techniques.

DANC 37B Theory and Technique of Jazz Dance II 1 Unit
(See general education pages for the requirement this course meets.)
Prerequisite: DANC 37A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Dance Technique Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Exploring elements of time, space, shape and motion as related to jazz dance on a beginning level. Body conditioning to increase functional range of motion and core muscular strength. Exposure to major international influences, artists, and works.

DANC 37C Theory and Technique of Jazz Dance III 1 Unit
(Formerly DANC 57C.)
(See general education pages for the requirement this course meets.)
Prerequisite: DANC 37B.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Dance Technique Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Exploring elements of time, space, shape and motion as related to jazz dance. Body conditioning, exposure to major international influences, artists, and works. The practice and development of a working of jazz dance technical, vocabulary at an intermediate level.

DANC 38A Appreciation of Dance 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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.

D DESIGN & MANUFACTURING TECHNOLOGIES

DMT 52 Geometric Dimensioning and Tolerancing: CAD Applications 2 Units

(Formerly CDI 51.)
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, three hours laboratory (48 hours total per quarter)
Geometric dimensioning and tolerancing, utilizing ASME Y14.5M-2009 standards as they apply to engineering and manufacturing drawings. CAD drawings will be completed from solid models using multiple datums, symbols, feature control frames and other GD&T specifications.

DMT 53 3D Printing, Reverse Engineering and Rapid Prototyping: Strategies in Industry 4 Units

Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Four hours lecture (48 hours total per quarter).
The objective of this course is to present a comprehensive overview of 3D Printing, spanning from fundamentals to applications and technology trends. Participants will learn the fundamentals of (AM) Additive Manufacturing/3D Printing of polymers, metals, composites, and biomaterials, and will realize how process capabilities (rate, cost, quality) are determined by the material characteristics, process parameters, and machine designs. Application areas including aerospace components, electronics, high-tech, medical devices, and consumer products will be discussed by means of detailed examples and case studies. Particular emphasis will be placed on concepts of industry applications, and related design principles and process standards. In class sessions will run live demonstrations with state-of-the-art industry grade 3D Printers, 3D Laser scanners and reverse engineering tools. Participants will understand how to design, fabricate, and measure test parts, and explore Additive Manufacturing process limits as well as appropriate applications of these technologies.

DMT 55 Survey of Design and Manufacturing Processes/Modern Fabrication 4 Units

Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Four hours lecture (48 hours total per quarter).
This survey course is designed to introduce students to both design, manufacturing and modern fabrication, by means of demonstrations, with the following areas of emphasis: manufacturing processes, equipment and systems, design for manufacturing, measurement tools, blueprint reading, rapid prototyping (3D printers), CNC machine set-up, CNC machine programming (lathe and mill), CAD/CAM and quality control using geometric dimensioning and tolerancing (GD&T). This hands on, team based course is designed to provide students with instruction and skills through applied real world experience to enable insight as to how products are designed and fabricated. Students will be able to identify the terminology of each area, examine each technique and skill requirement, and gain a fundamental understanding of diverse industry processes.

DMT 60A SolidWorks (Beginning) 4 Units

(Formerly CDI 60.)
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Two hours lecture, six hours laboratory (96 hours total per quarter).
Fundamentals of computer-aided design and drafting using SolidWorks software. Application of SolidWorks in creating manufacturing models (parts, assemblies and drawings).

DMT 61A SolidWorks (Intermediate) 4 Units

(Formerly CDI 61.)
Prerequisite: Any DMT 60A-E course.
Two hours lecture, six hours laboratory (96 hours total per quarter).
Intermediate-level application of SolidWorks in creating and maintaining solid models and drawings. Special emphasis is given to creation and development of new drawings based on preexisting solid models.

DMT 62A SolidWorks: Top-Down Design and Advanced System Tools 4 Units

Prerequisite: Any DMT 61A-E course.
Two hours lecture, six hours laboratory (96 hours total per quarter).
Advanced 3D Solid Modeling techniques using SolidWorks. Emphasis is on Advanced Assembly Mates, Large Assembly Management Tools, and Top-Down Design. In addition, time is given to safe and proper development of new Solid Models and Drawing Documents from legacy solid models, using so-called Top-Down Assembly techniques.

DMT 63A SolidWorks: Surface Modeling 4 Units

Prerequisite: Any DMT 60A-E course.
Two hours lecture, six hours laboratory (96 hours total per quarter).
Surface design using SolidWorks software to create organic 3D shapes that follow processed-based (or task-based) approach to modeling. Application of multifaceted surfaces features in designing product models and molds for industry.

DMT 65A Creo Parametric (Beginning) 4 Units

(Formerly CDI 70.)
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Two hours lecture, six hours laboratory (96 hours total per quarter).
Fundamentals of computer-aided design using Creo Parametric. Application of Creo Parametric software in creating manufacturing models (parts, assemblies, and drawings).

DMT 66A Creo Parametric (Intermediate) 4 Units

(Formerly CDI 71.)
Prerequisite: Any DMT 65A-E course.
Two hours lecture, six hours laboratory (96 hours total per quarter).
Intermediate-level application of Creo Parametric in creating solid models and drawings. Special emphasis is given to the creation of parts, assemblies, and drawings which are more complex and technically more difficult than those projects found in the course prerequisite.

DMT 67A Creo Parametric: Top-Down Design and Advanced System Tools 4 Units

Prerequisite: Any DMT 65A-E course.
Two hours lecture, six hours laboratory (96 hours total per quarter).
Advanced 3D Solid Modeling techniques using Creo Parametric. Emphasis is on Advanced Assembly Mates, Large Assembly Management Tools, and Top-Down Design. In addition, time is given to safe and proper development of new Solid Models and Drawing Documents from legacy solid models, using Top-Down Assembly techniques. Exploration of intricate models (parts, assemblies, sheetmetal and complex feature sets).

DMT 73A Introduction to Computer Aided Design Using Autodesk Inventor 4 Units

Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.
Two hours lecture, six hours laboratory (96 hours total per quarter).
Introduction-level computer-aided design and drafting using AutoDesk Inventor software. Application of AutoDesk Inventor in creating manufacturing models (parts, assemblies and drawings).

DMT 75A Introduction to Computer Aided Design Using Siemens NX 4 Units

Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.
Two hours lecture, six hours laboratory (96 hours total per quarter).
Introduction-level application of Siemens NX in manufacturing models. This course covers solid modeling, assemblies and drawings.

DMT 77A Special Projects In Manufacturing and CNC/Mastercam Certification Level 1 2 Units

(Formerly MCNC 80A.)
Prerequisite: Consent of instructor and division dean.
Six hours laboratory (72 hours total per quarter).
Projects advancing student's knowledge and experience in computer numerical control machining using Mastercam CAD/CAM software, a selected area of Manufacturing and CNC Technology. Project type and design will be determined through consultation with the instructor based on Mill Design and Toolpaths. Upon successful completion of the course the student will have the opportunity to earn an Associate Level Certificate from Mastercam.

DMT 77B Special Projects In Manufacturing and CNC/Mastercam Certification Level 2 2 Units

(Formerly MCNC 80B.)
Prerequisite: Consent of instructor and division dean.
Six hours laboratory (72 hours total per quarter).
Projects advancing student's knowledge and experience in computer numerical control machining using Mastercam CAD/CAM software, a selected area of Manufacturing and CNC Technology. Project type and design will be determined through consultation with the instructor based on Advanced Mill Design and Toolpaths. Upon successful completion of the course the student will have the opportunity to earn an Associate Level Certificate from Mastercam.

DMT 77C Special Projects In Manufacturing and CNC/Mastercam Certification Level 3 2 Units

(Formerly MCNC 80C.)
Prerequisite: Consent of instructor and division dean.
Six hours laboratory (72 hours total per quarter).
Projects advancing student's knowledge and experience in computer numerical control machining using Mastercam CAD/CAM software, a selected area of Manufacturing and CNC Technology. Project type and design will be determined through consultation with the instructor based on Mutiaxis Mill, Lathe design and Toolpaths. Upon successful completion of the course the student will have the opportunity to earn an Associate Level Certificate from Mastercam.

DMT 77D Special Projects In Manufacturing and CNC/NIMS Level 1 2 Units

(Formerly MCNC 80D.)
Prerequisite: Consent of instructor and division dean.
Six hours laboratory (72 hours total per quarter).
Projects advancing student's knowledge and experience in computer numerical control and conventional machining, selected areas of Manufacturing and CNC Technology. Project type and design will be determined through consultation with the instructor based on the National Institute for Metalworking Skills certification program. Upon successful completion of the course the student will have the opportunity to earn multiple Level 1 NIMS certifications.

DMT 77E Special Projects In Manufacturing and CNC/NIMS Level 2 2 Units

(Formerly MCNC 80E.)
Prerequisite: Consent of instructor and division dean.
Six hours laboratory (72 hours total per quarter).
Projects advancing student's knowledge and experience in computer numerical control and conventional machining, selected areas of Manufacturing and CNC Technology. Project type and design will be determined through consultation with the instructor based on the National Institute for Metalworking Skills certification program. Upon successful completion of the course the student will have the opportunity to earn multiple Level 2 NIMS certifications.

DMT 77F Special Projects In Manufacturing and CNC/NIMS Level 3 2 Units

(Formerly MCNC 80F.)
Prerequisite: Consent of instructor and division dean.
Six hours laboratory (72 hours total per quarter).
Projects advancing student's knowledge and experience in computer numerical control, a selected area of Manufacturing and CNC Technology. Project type and design will be determined through consultation with the instructor based on the National Institute for Metalworking Skills certification program. Upon successful completion of the course the student will have the opportunity to earn multiple Level 3 NIMS certifications.

DMT 77X Special Projects in CAD 1 Unit
DMT 77Y 2 Units
DMT 77Z 3 Units

(Formerly CDI 56, 56X and 56Y respectively.)
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Projects advancing students' knowledge and experience in a selected area of Computer Aided Design. Students will complete project objectives/requirements as determined in 3, 4, and 5 of the Special Projects Contract.

DMT 80 Introduction to Machining and CNC Processes 5 Units

(Formerly MCNC 71.)
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.
Three hours lecture, six hours laboratory (108 hours total per quarter).
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.

DMT 82 Machining Practices Using Conventional Machine Tools, Tool Design, Abrasive Machining 5 Units

(Formerly MCNC 77.)
Prerequisite: DMT 80 with a grade of C or better or equivalent.
Three hours lecture, six hours laboratory (108 hours total per quarter).
Advanced machining and abrasive machining practices using conventional machine tools and surface grinders. Introduction to fixture design including location, clamping methods and computation of fits and allowances.

DMT 84A Introduction to Computer-Aided Numerical Control (CNC) Programming and Operation; Mills 5 Units

(Formerly MCNC 75A.)
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent; DMT 80 or experience in machining processes.
Three hours lecture, six hours laboratory (108 hours total per quarter).
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 verification. Calculation for mill cutter compensation. Precision inspection techniques. Basic mill setups, including cutting tool selection, and work holding.

DMT 84B Computer-Aided Numerical Control (CNC) Programming and Operation; Lathe Introduction, Advanced Mills 5 Units

(Formerly MCNC 75B.)
Prerequisite: DMT 84A or equivalent with a grade of C or better.
Three hours lecture, six hours laboratory (108 hours total per quarter).
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.

DMT 84C CNC Lathes-Horizontal Mill-4th Axis Rotary-Programming Operations 5 Units

(Formerly MCNC 75C.)
Prerequisite: DMT 84A or equivalent work experience.
Three hours lecture, six hours laboratory (108 hours total per quarter).
CNC lathe tool path programming using G & M code format, including tool orientation, 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.

DMT 87D CAD/CAM Based Computer Numerical Control Programming Using Mastercam 5 Units

(Formerly MCNC 76D.)
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent; basic understanding of mills and lathe operations.
Three hours lecture, six hours laboratory (108 hours total per quarter).
Introduction to Mastercam three axis mill programming. Create part geometry, define tools and tool paths, using post-processors to produce word-address format programs.

DMT 87J CAD/CAM Based CNC Surface Contouring Programming Using Mastercam 5 Units

(Formerly MCNC 76J.)
Prerequisite: Any DMT 87A-E course.
Three hours lecture, six hours laboratory (108 hours total per quarter).
Programming for continuous 3-axis contouring on machining centers using wireframe, splines, surface and solid modeling. Rough, finish and high speed machining. Editing, post-processing and verifying programs.

DMT 87N CAD/CAM Based CNC 4 and 5 Axis Mill/Lathe Programming Using Mastercam 5 Units

(Formerly MCNC 76N.)
Prerequisite: Any DMT 87A-E course.
Three hours lecture, six hours laboratory (108 hours total per quarter).
Advanced Mastercam multiaxis toolpaths for horizontal milling machines, vertical milling machines with rotary 4th axis, five axis indexing machining centers and CNC lathe with live tooling. Tooling, process, fixture design, work holding techniques and toolpath applications with rotary axis.

DMT 89A CAM Based CNC Multi-Axis Programming Using NX 5 Units

(Formerly MCNC 78A.)
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.
Three hours lecture, six hours laboratory (108 hours total per quarter).
A fixed-axis and multi-axis milling course designed for CNC programmers who machine simple or complex parts with fixed and variable tool capabilities. Students will learn how to create fixed and variable axis tool paths. NX workflows for machining contoured parts, high-speed machining methods, milling holes and threads, and milling turbine blade type parts will be introduced.

DMT 90 Print Reading and Machine Shop Calculations 4 ½ Units

(Formerly MCNC 60.)
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.
Four and one-half hours lecture (54 hours total per quarter).
Interpretation of multi-view engineering blue prints, visualization techniques, auxiliary and section views. Appraisal of revision columns, title blocks and bill of materials. Introduction to geometric dimensioning and tolerancing (GD&T) using ANSI and ISO standards. Review of calculations used to solve common problems found in print interpretation and inspection.

DMT 91 Dimensional Metrology 4 ½ Units

Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.
Four and one-half hours lecture (54 hours total per quarter).
Applications and capabilities of semi-precision and precision measuring tools, including scaled, vernier and digital instruments, used in manufacturing environments to inspect production and prototype parts. Introduction to the use of the optical comparator and CMM (coordinate measuring machine)

DMT 92 Applied Geometric Inspection Dimensioning and Tolerancing (ASME Y14.5m); Coordinate Measuring Machines (CMM) 4 Units

(Formerly MCNC 72.)
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent; experience in blueprint reading.
Three hours lecture, three hours laboratory (72 hours total per quarter).
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-aide 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.

DMT 93 Introduction to Quality Assurance 4 Units

Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.
Four hours lecture (48 hours total per quarter).
Introduction to the measurement and statistical processes and inspection methods used by quality control technicians. Evaluation and design of equipment calibration systems and programs. Investigation of different continuous improvement techniques and programs, including Total Quality Management (TQM) and Statistical Process Control (SPC). Review of quality audit systems as well as failure analysis and troubleshooting tools.

DMT 95 Manufacturing Materials and Processes 4 Units

(Formerly MCNC 64.)
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Three hours lecture, three hours laboratory (72 hours total per quarter).
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.

DMT 101 CAD Technology Laboratory Creo Parametric (Beginning) 2 Units

(Formerly CDI 101Z.)
Requisite/Advisory: None.
Six hours laboratory (72 hours total per quarter).
Pass-No Pass (P-NP) course.
Self-paced introductory projects and computer based training on Creo software. Instruction is in the use of CAD technology using projects from other Creo courses. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in Creo software.

DMT 102 CAD Technology Laboratory SolidWorks (Beginning) 2 Units

(Formerly CDI 102Z.)
Requisite/Advisory: None.
Six hours laboratory (72 hours total per quarter).
Pass-No Pass (P-NP) course.
Self-paced introductory projects and computer based training on SolidWorks software. Instruction is in the use of CAD technology using projects from other SolidWorks courses. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in SolidWorks software.

DMT 103 CAD Technology Laboratory Creo Parametric (Intermediate) 2 Units

(Formerly CDI 103Z.)
Requisite/Advisory: None.
Six hours laboratory (72 hours total per quarter).
Pass-No Pass (P-NP) course.
Self-paced intermediate projects and computer based training on Creo software. Instruction is in the use of CAD technology using projects from other Creo courses. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in Creo software.

DMT 104 CAD Technology Laboratory SolidWorks (Intermediate) 2 Units

(Formerly CDI 104Z.)
Requisite/Advisory: None.
Six hours laboratory (72 hours total per quarter).
Pass-No Pass (P-NP) course.
Self-paced intermediate projects and computer based training on SolidWorks software. Instruction is in the use of CAD technology using projects from other SolidWorks courses. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in SolidWorks software.

DMT 105 CAD Technology Laboratory Creo Parametric (Advanced) 2 Units

(Formerly CDI 105Z.)
Requisite/Advisory: None.
Six hours laboratory (72 hours total per quarter).
Pass-No Pass (P-NP) course.
Self-paced advanced projects and computer based training on Creo software. Instruction is in the use of CAD technology using advanced extended projects based on other Creo courses. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in Creo software.

DMT 106 CAD Technology Laboratory SolidWorks (Advanced) 2 Units

(Formerly CDI 106Z.)
Requisite/Advisory: None.
Six hours laboratory (72 hours total per quarter).
Pass-No Pass (P-NP) course.
Self-paced advanced projects and computer based training on SolidWorks software. Instruction is in the use of CAD technology using projects from other SolidWorks courses. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in SolidWorks software.

DMT 107 CAD Technology Laboratory Creo Parametric (Surfaces) 2 Units

(Formerly CDI 107Z.)
Requisite/Advisory: None.
Six hours laboratory (72 hours total per quarter).
Pass-No Pass (P-NP) course.
Self-paced projects and computer based training on Creo software. Instruction is in the use of CAD technology using projects from other Creo courses. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in Creo software.

DMT 108 CAD Technology Laboratory SolidWorks (Surfaces) 2 Units

(Formerly CDI 108Z.)
Requisite/Advisory: None.
Six hours laboratory (72 hours total per quarter).
Pass-No Pass (P-NP) course.
Self-paced projects and computer based training on SolidWorks software. Instruction is in the use of CAD technology using projects from other SolidWorks courses. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in SolidWorks software.

DMT 109 CAD Technology Laboratory Creo Parametric (Sheetmetal) 2 Units

(Formerly CDI 109Z.)
Requisite/Advisory: None.
Six hours laboratory (72 hours total per quarter).
Pass-No Pass (P-NP) course.
Self-paced projects and computer based training on Creo software. Instruction is in the use of CAD technology using projects from other Creo courses. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in Creo software.

DMT 110 CAD Technology Laboratory Geometric Dimensioning and Tolerancing 2 Units

(Formerly CDI 110Z.)
Requisite/Advisory: None.
Six hours laboratory (72 hours total per quarter).
Pass-No Pass (P-NP) course.
Self-paced projects and computer based training on CAD software. Instruction is in the use of CAD technology to create models and drawings complying with ANSI Y14.5 Geometric Dimensioning and Tolerancing. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in CAD software.

DMT 201 Manufacturing and CNC Technology Laboratory/Conventional Machining 1 2 Units

(Formerly MCNC 201.)
Credit course - Does not apply to De Anza associate degree.
Co-requisite: DMT 201 students must also be enrolled in DMT 80.
Six hours laboratory (72 hours total per quarter).
Pass-No Pass (P-NP) course.
Use of Manufacturing and CNC Technology labs for additional/advanced projects in DMT 80, Introduction to Machining and CNC Processes. Projects will vary based on the students skill level and the direction of the instructor.

DMT 202 Manufacturing and CNC Technology Laboratory/CNC Machining 1 2 Units

(Formerly MCNC 202.)
Credit course - Does not apply to De Anza associate degree.
Co-requisite: DMT 202 students must also be enrolled in DMT 84A.
Six hours laboratory (72 hours total per quarter).
Pass-No Pass (P-NP) course.
Use of Manufacturing and CNC Technology labs for additional/advanced projects in DMT 84A, Introduction to Computer-Aided Numerical Control (CNC) Programming and Operation; Mills. Projects will vary based on the students skill level and the direction of the instructor.

DMT 203 Manufacturing and CNC Technology Laboratory/CNC Machining 2 2 Units

(Formerly MCNC 203.)
Credit course - Does not apply to De Anza associate degree.
Co-requisite: DMT 203 students must also be enrolled in DMT 84B.
Six hours laboratory (72 hours total per quarter).
Pass-No Pass (P-NP) course.
Use of Manufacturing and CNC Technology labs for additional/advanced projects in DMT 84B, Computer-Aided Numerical Control (CNC) Programming and Operation; Lathe Introduction, Advanced Mills. Projects will vary based on the students skill level and the direction of the instructor.

DMT 204 Manufacturing and CNC Technology Laboratory/CNC Machining 3 2 Units

(Formerly MCNC 204.)
Credit course - Does not apply to De Anza associate degree.
Co-requisite: DMT 204 students must also be enrolled in DMT 84C.
Six hours laboratory (72 hours total per quarter).
Pass-No Pass (P-NP) course.
Use of Manufacturing and CNC Technology labs for additional/advanced projects in DMT 84C, Computer-Aided Numerical Control (CNC) Lathes and Horizontal Machining Centers; Programming and Operation, 4th Axis Rotary, Fixture Design. Projects will vary based on the students skill level and the direction of the instructor.

DMT 205 Manufacturing and CNC Technology Laboratory/CAD CAM Programming 1 2 Units

(Formerly MCNC 205.)
Credit course - Does not apply to De Anza associate degree.
Co-requisite: DMT 205 students must also be enrolled in any DMT 87A-E course.
Six hours laboratory (72 hours total per quarter).
Pass-No Pass (P-NP) course.
Use of Manufacturing and CNC Technology labs for additional/advanced projects in DMT 87A-E, CAD/CAM Based Computer Numerical Control Programming Using Mastercam. Projects will vary based on the students skill level and the direction of the instructor.

DRAMA

(See Dance and/or Theatre Arts course listings.)

ECONOMICS

ECON 1 Principles of Macroeconomics 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in ECON 1H.)
Prerequisite: MATH 212 or equivalent.
Advisory: EWRT 1A or EWRT 1AH or ESL 5; MATH 114 or equivalent.
Four hours lecture (48 hours total per quarter).
An introduction to macroeconomics focusing on aggregate economic analysis. Topics covered will include market systems, aggregate measures of economic activity including national income accounting, macroeconomic equilibrium, money and the banking system, money and the price level, classical macro theory, Keynesian macro theory, monetary and fiscal policy,international trade and economic growth.

ECON 1H Principles of Macroeconomics - HONORS 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in ECON 1.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Prerequisite: MATH 212 or equivalent.
Advisory: EWRT 1A or EWRT 1AH or ESL 5; MATH 114 or equivalent.
Four hours lecture (48 hours total per quarter).
An introduction to macroeconomics focusing on aggregate economic analysis. Topics covered will include market systems, aggregate measures of economic activity including national income accounting, macroeconomic equilibrium, money and the banking system, money and the price level, classical macro theory, Keynesian macro theory, monetary and fiscal policy,international trade and economic growth.

ECON 2 Principles of Microeconomics 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in ECON 2H.)
Prerequisite: MATH 212 or equivalent.
Advisory: EWRT 1A or EWRT 1AH or ESL 5; MATH 114 or equivalent.
Four hours lecture (48 hours total per quarter).
An introductory course focusing on choices of individual economic decision-makers. Examines fundamental microeconomic issues; the allocation of resources and the production function, 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 and market failure.

ECON 2H Principles of Microeconomics - HONORS 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in ECON 2.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Prerequisite: MATH 212 or equivalent.
Advisory: EWRT 1A or EWRT 1AH or ESL 5; MATH 114 or equivalent.
Four hours lecture (48 hours total per quarter).
An introductory course focusing on choices of individual economic decision-makers. Examines fundamental microeconomic issues; the allocation of resources and the production function, 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 and market failure.

ECON 3 Environmental Economics 4 Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5; MATH 212 or equivalent.
Four hours lecture (48 hours total per quarter).
An introduction to the basic principles of economics and their application to problems of environmental quality and natural resource utilization. Topics covered will include market failures, sustainable resource allocation, environmental degradation, pollution, and a rationale of government involvement in the market-based economy. Emphasis is on sustainability and the importance of including the environmental impact into the cost-benefit analysis of economic activities.

ECON 4 Economics of Public Issues 4 Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hour total per quarter).
An introduction to the economics of various public policy issues. Contemporary issues and the role of government will be evaluated and analyzed by the student. Topics to be discussed include the minimum wage, rent control, drug prohibition, health care, Social Security, international trade, organ markets, impact of sports stadiums, discrimination and freedom of association, education, fiscal and monetary policy, property rights and the environment, and antitrust policy.

ECON 5 Behavioral Economics 4 Units

(Formerly ECON 78I.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5; ECON 1, 1H, 2 or 2H.
Four hours lecture (48 hours total per quarter).
An introduction to the basic principles of conventional economics focusing on purely rational decision making contrasted to the more realistic behavioral economic model based on scientific studies of actual outcomes. Topics covered include the structure of the brain, loss-avoidance, emotions, experiences, social norms, framing, endowment effect, fairness, ethics, morals, trust, satisficing, status, herding, anchors, animal spirits, irrational exuberance, why smart people make investment mistakes, blurring social and financial arrangements, value of nudging people to make superior decisions, charitable donations, and happiness (money isn't everything).

EDUCATION

EDUC 1 Introduction to Elementary Education in a Diverse Society 3 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture, three hours laboratory (60 hours total per quarter).
An examination of principles and practices of elementary education in today's society including observations and supervised participation in the elementary school setting.

EDUC 46 Mathematics for Elementary Education 5 Units

(See general education pages for the requirement this course meets.)
Prerequisite: MATH 114 with a grade of C or better, or a qualifying score on Intermediate Algebra Placement Test within the past calendar year.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as MATH 46. Students may enroll in either department, but not both, for credit.)
Five hours lecture (60 hours total per quarter).
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.

ENGINEERING

ENGR 10 Introduction to Engineering 4 ½ Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 210 or equivalent.
Three hours lecture, five hours laboratory (96 hours total per quarter).
An introduction to engineering design through a variety of team projects, including experimentation, data analysis, and development of computer skills. Exposure to several engineering disciplines through project design and problem solving for the purpose of providing information to assist students in a choice of major.

ENGR 35 Statics 4 Units
Prerequisite: ENGR 10, MATH 1B or MATH 1BH, and PHYS 4A.
Three hours lecture, three hours laboratory (72 hours total per quarter).
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: MATH 1D or MATH 1DH; PHYS 4B (may be taken concurrently).
Five hours lecture (60 hours total per quarter).
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 77 Special Projects in Engineering 1 Unit
ENGR 77X 2 Units
ENGR 77Y 3 Units
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Individual special reading, writing, or study projects in Engineering as determined in consultation with the instructor.

ENGR 78X Special Projects in Electrical Engineering 1 Unit
ENGR 78Y 2 Units
ENGR 78Z 3 Units
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Pass-No Pass (P-NP) course.
Individual special reading, writing, or study projects in electrical engineering as determined in consultation with the instructor.

ENGR 79X Special Projects in Mechanical Engineering 1 Unit
ENGR 79Y 2 Units
ENGR 79Z 3 Units
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Pass-No Pass (P-NP) course.
Individual special reading, writing, or study projects in mechanical 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 EWRT 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 EWRT 211, including instructor's recommendation.

Students scoring below the qualifying score for READ 211 on the reading test should enroll in READ 200. Those scoring below the qualifying score for EWRT 211 on the writing test should enroll in EWRT 200.

ENGLISH AS A SECOND LANGUAGE

ESL 5 Advanced Composition and Reading 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273, or a qualifying score on the English as a Second Language Placement Test.
Five hours lecture (60 hours total per quarter).
Close reading and analysis of a variety of societal, academic, and literary texts representing culturally diverse perspectives. Practice of the techniques of expository, response, and argumentative writing based on critical reading and critical thinking. Composition of clear, organized, and well-developed essays, with outside sources and demonstration of information literacy.

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: EWRT 1A or EWRT 1AH or ESL 5.
Five hours lecture (60 hours total per quarter).
Development of analytical, integrative, and research skills in reading and writing. Academic writing (interpretative, analytical, argumentative) based largely on the reading of diverse literature and texts. Library and outside research leading to analysis, comparison, and synthesis in 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 (120 hours total per quarter).
Development of English listening, speaking, reading and writing skills at the high-beginning level with an emphasis on explicit, direct grammar instruction. Practice in listening to basic forms of conversational English and speaking with comprehensible pronunciation. Development of basic reading comprehension and vocabulary. Practice in writing simple and basic compound sentences, short narratives, explanations and descriptions.

ESL 234 Low Intermediate English as a Second Language 10 Units
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 ESL 200 with a grade of C or better.
Ten hours lecture (120 hours total per quarter).
Development of English speaking, listening, reading and writing skills at the low-intermediate level. Emphasis on explicit grammar instruction, writing a group of topic-related sentences, vocabulary building, pronunciation and discussion of multicultural topics.

ESL 244 Intermediate English as a Second Language 10 Units
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 ESL 234 with a grade of C or better.
Ten hours lecture (120 hours total per quarter).
Development of English speaking, listening, reading and writing skills with an emphasis on explicit, direct grammar instruction. Vocabulary-building and writing are emphasized. Pronunciation practice and discussion of cross-cultural topics are also included.

ESL 251 High Intermediate Listening and Speaking 3 Units
Credit course - Does not apply to De Anza associate degree.
(Restricted to students whose native language is not English.)
Prerequisite: ESL 244 or a qualifying score on the English as a Second Language Placement Test.
Advisory: ESL 251 students may also take ESL 252 and 253 concurrently.
Three hours lecture (36 hours total per quarter).
English speaking and listening practice in a variety of contexts. Development of vocabulary appropriate in both formal and informal situations.

ESL 252 High Intermediate Reading 3 Units
Credit course - Does not apply to De Anza associate degree.
(Restricted to students whose native language is not English.)
Prerequisite: ESL 244 or a qualifying score on the English as a Second Language Placement Test.
Advisory: ESL 252 students may also take ESL 251 and 253 concurrently.
Three hours lecture (36 hours total per quarter).
Development of high intermediate English reading comprehension and vocabulary building skills in extended written materials.

ESL 253 High Intermediate Grammar and Writing 4 Units
Credit course - Does not apply to De Anza associate degree.
(Restricted to students whose native language is not English.)
Prerequisite: ESL 244 or a qualifying score on the English as a Second Language Placement Test.
Advisory: ESL 253 students may also enroll in ESL 251 and 252 concurrently.
Four hours lecture (48 hours total per quarter).
Develop skills in using level-specific grammar and sentence structure in writing. Write organized and well-developed descriptive, narrative, and explanatory paragraphs.

ESL 254 American Language and Culture Through Media as Related to Child Development 2 Units
Credit course - Does not apply to De Anza associate degree.
Co-requisite: Students must also enroll in any Child Development course.
Two hours lecture (24 hours total per quarter).
Pass-No Pass (P-NP) course.
Develop an understanding of American culture, language, common idioms and slang through viewing and discussing American films and television related to child development.

ESL 260 Accent Reduction (for Non-Native Speakers) 4 Units
Credit course - Does not apply to De Anza associate degree.
(Restricted to students whose native language is not English.)
Advisory: ESL 251, 252 and 253.
Four hours lecture (48 hours total per quarter).
Pass-No Pass (P-NP) course.
Emphasis on production of speech that is intelligible and accurate through the study and practice of the English language sound system, stress, linking, reduction, rhythm and intonation patterns.

ESL 261 Low Advanced Listening and Speaking 3 Units
Credit course - Does not apply to De Anza associate degree.
(Restricted to students whose native language is not English.)
Prerequisite: ESL 251 or a qualifying score on the English as a Second Language Placement Test.
Three hours lecture (36 hours total per quarter).
Emphasis on listening comprehension and proficiency in speaking in academic settings; expression of students' ideas using a variety of speaking strategies. Development of vocabulary, pronunciation and note-taking skills.

ESL 262 Low Advanced Reading 3 Units
Credit course - Does not apply to De Anza associate degree.
(Restricted to students whose native language is not English.)
Prerequisite: ESL 252 and 253; or a qualifying score on the English as a Second Language Placement Test.
Advisory: ESL 262 students may also enroll in ESL 261 and 263 concurrently.
Three hours lecture (36 hours total per quarter).
Development of low advanced reading comprehension, vocabulary building skills, and improved reading rate in extended written materials.

ESL 263 Low Advanced Grammar and Writing 4 Units
Credit course - Does not apply to De Anza associate degree.
(Restricted to students whose native language is not English.)
Prerequisite: ESL 252 and 253; or a qualifying score on the English as a Second Language Placement Test.
Advisory: ESL 263 students may also enroll in ESL 261 and 262 concurrently.
Four hours lecture (48 hours total per quarter).
Develop skills for writing clear, organized, well-developed, multiple paragraph compositions that demonstrate analytical thinking and level-appropriate grammar, sentence structure and vocabulary.

ESL 272 Advanced Reading and Vocabulary 5 Units
Credit course - Does not apply to De Anza associate degree.
(Restricted to students whose native language is not English.)
Prerequisite: EWRT 200 and READ 200 (or LART 200), or ESL 262 and 263; or a qualifying score on the English as a Second Language Placement Test.
Five hours lecture (60 hours total per quarter).
Development of academic vocabulary, reading and critical thinking skills through extensive readings of college-level material in English.

ESL 273 Introduction to the Essay 5 Units
Credit course - Does not apply to De Anza associate degree.
(Restricted to students whose native language is not English.)
Prerequisite: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263 with a grade of C or better; or a qualifying score on the English as a Second Language Placement Test.
Advisory: ESL 273 students may enroll in ESL 272 concurrently.
Five hours lecture (60 hours total per quarter).
Principles of essay writing and introduction of the techniques of academic essay writing based on critical reading and thinking.

ESL 274 Grammar and Proofreading for Academic Writing 4 Units
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: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Four hours lecture (48 hours total per quarter).
Focus on helping students become successful academic writers by addressing their individual needs to understand grammatical structures fundamental to college writing and to develop effective proofreading skills.

ESL 280 Developmental Reading for Child Development and Education 1 Unit
Credit course - Does not apply to De Anza associate degree.
(Restricted to students who are enrolled in the Child Development Department.)
Co-requisite: ESL 280 students must also enroll in C D 10G, 10H, 12, 50, 51, 54, 56 or 64.
Advisory: ESL 251, 252 and 253; or a qualifying score on the English as a Second Language Placement Test.
One hour lecture (12 hours total per quarter).
Pass-No Pass (P-NP) course.
Language support for non-native English speakers taking Child Development courses. The focus is on developing reading and vocabulary building strategies to help students successfully understand Child Development content, textbooks, class and group discussions, and writing and interview assignments.

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 contact the Testing and Assessment Office at 408.864.8717.

ELIT 8 Children's Literature 4 Units
(Formerly ELIT 58.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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.

ELIT 10 Introduction to Fiction 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Intensive study of dramatic literature through 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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 21 Women in Literature 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as WMST 21. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 24 Asian Pacific American Literature 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ICS 24. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
Introduction to Asian Pacific American literature. Through readings in twentieth and twenty-first century works, students will explore and analyze identity issues related to complexities of identity as it relates to class, gender, mixed heritages, and sexuality; politics and the history of Asian American activism and resistance to cultural marginalization; and diversity of cultures and experiences within the Asian Pacific American community.

ELIT 39 Contemporary Literature 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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.

ELIT 40 African American Literature 4 Units
(Formerly ELIT 60.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Examines significant authors, movements, and traditions in African American literature from the era of slavery to the present. Attention to key trends, styles, and issues related to race in the United States.

ELIT 41 Ethnic Literature of the United States 4 Units
(Formerly ELIT 61.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Examines significant authors, movements, and traditions (continuing as well as emerging) in a diverse range of ethnic literature of the United States.

ELIT 44 International Literature (Fiction) 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 of short stories and novels.

ELIT 46A Major British Writers (Medieval and Renaissance) 4 Units
(See general education pages for the requirement this course meets.)
Prerequisite: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Reading and critical analysis of representative works by major writers such as Chaucer, Shakespeare and Milton.

ELIT 46B Major British Writers (Neo-Classical and Romantic) 4 Units
(See general education pages for the requirement this course meets.)
Prerequisite: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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.

ELIT 46C Major British Writers (Victorian and Modern) 4 Units
(See general education pages for the requirement this course meets.)
Prerequisite: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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.

ELIT 47A World Literature: Antiquity to the 1500s 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
A comparative study of selected works, in translation and in English, of literature from around the world, including Europe, the Middle East, Asia, Africa and other areas, from antiquity to the middle of the sixteenth century.

ELIT 47B World Literature: Africa and Latin America 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
A comparative literature survey, "World Literature: Africa and Latin America" studies the literatures of both Africa and Latin America from colonial times up to the present, in English and translation. The diversity of literature produced in both Northern and Sub-Saharan Africa, Latin America (including Brazil and the Caribbean), and various contemporary diasporas around the globe will be covered. The historically asynchronous approach investigates shared literary movements across national, linguistic, religious, and other social strata.

ELIT 48A Major American Writers (Colonial to Romantic, 1620-1865) 4 Units
(See general education pages for the requirement this course meets.)
Prerequisite: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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.

ELIT 48B Major American Writers (The Advent of Realism, 1865-1914) 4 Units
(See general education pages for the requirement this course meets.)
Prerequisite: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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.

ELIT 48C Major American Writers (The Modern Age, 1914-the Present) 4 Units
(See general education pages for the requirement this course meets.)
Prerequisite: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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.

ELIT 78 Special Topics in Literature 1 Unit
ELIT 78X 2 Units
ELIT 78Y 3 Units
ELIT 78Z 4 Units
Requisite/Advisory: None.
One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).
Intensive study and analysis of a special topic in literature.

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 contact the Testing and Assessment Office at 408.864.8717.

EWRT 1A Composition and Reading 5 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in EWRT 1AH.)
Prerequisite: EWRT 211 and READ 211 (or LART 211); or equivalent placement (normally based on results of the English placement tests).
Five hours lecture (60 hours total per quarter).
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.

EWRT 1AH Composition and Reading - HONORS 5 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in EWRT 1A.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Prerequisite: EWRT 211 and READ 211 (or LART 211); or equivalent placement (normally based on results of the English placement tests).
Five hours lecture (60 hours total per quarter).
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. As an honors course, the students will be expected to complete extra assignments to gain deeper insight in English Composition.

EWRT 1B Reading, Writing and Research 5 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in EWRT 1BH.)
Prerequisite: EWRT 1A or EWRT 1AH.
Five hours lecture (60 hours total per quarter).
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.

EWRT 1BH Reading, Writing and Research - HONORS 5 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in EWRT 1B.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Prerequisite: EWRT 1A or EWRT 1AH.
Five hours lecture (60 hours total per quarter).
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. As an honors course, the students will be expected to complete extra assignments to gain deeper insight in critical thinking and literature.

EWRT 1C Literature and Composition 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: EWRT 1B, 1BH, 2 or 2H.
Five hours lecture (60 hours total per quarter).
Applies the analytical, critical, and synthesis skills developed in EWRT 1A/1AH and EWRT 1B/1BH, and/or EWRT 2/2H 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.

EWRT 2 Critical Reading, Writing and Thinking 5 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in EWRT 2H.)
Prerequisite: EWRT 1A or EWRT 1AH.
Five hours lecture (60 hours total per quarter).
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 2H Critical Reading, Writing and Thinking - HONORS 5 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in EWRT 2.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Prerequisite: EWRT 1A or EWRT 1AH.
Five hours lecture (60 hours total per quarter).
Develops critical thinking skills and the ability to apply these skills to reading and writing. Develops 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 30 Introduction to Creative Writing 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: EWRT 211 and READ 211 (or LART 211).
Five hours lecture (60 hours total per quarter).
Introduction to the writing of fiction, poetry, drama, and creative nonfiction, through both critical analysis and intensive practice.

EWRT 40 Fiction Writing 5 Units
Prerequisite: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Development of fiction writing skills through critical analysis and intensive practice.

EWRT 41 Poetry Writing 5 Units
Prerequisite: EWRT 211 and READ 211 (or LART 211).
Five hours lecture (60 hours total per quarter).
Development of poetry writing skills through critical analysis and intensive practice.

EWRT 42 Introduction to Creative Nonfiction and Memoir Writing 5 Units
Prerequisite: EWRT 211 and READ 211 (or LART 211).
Five hours lecture (60 hours total per quarter).
Development of skills in writing creative nonfiction and memoir through critical analysis and intensive practice.

EWRT 65A Literary Magazine I, National Edition 2 Units
EWRT 65AX 3 Units
(Formerly EWRT 65 and EWRT 65X respectively.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Two hours lecture for the two unit course (24 hours total per quarter); two hours lecture, three hours laboratory for the three unit course (60 hours total per quarter).
Emphasis on collaborative evaluation and selection of fiction, poetry, and other literary submissions for professional annual magazine publication including attention to management and issue planning as well as design.

EWRT 65B Literary Magazine II, National Edition 2 Units
EWRT 65BX 3 Units
Prerequisite: EWRT 65A or EWRT 65AX.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Two hours lecture for the two unit course (24 hours total per quarter); two hours lecture, three hours laboratory for the three unit course (60 hours total per quarter).
Continuation of Literary Magazine I, National Edition (EWRT 65A or EWRT 65AX) with emphasis on genre-specific collaboration with editing, design, issue planning, screening, and/or management teams, including evaluation of fiction, poetry, and other literary submissions for annual national magazine.

EWRT 65C Editorial Leadership Literary Magazine, National Edition 2 Units
EWRT 65CX 3 Units
Prerequisite: EWRT 65A or EWRT 65AX.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Two hours lecture for the two unit course (24 hours total per quarter); two hours lecture, three hours laboratory for the three unit course (60 hours total per quarter).
Continuation of Literary Magazine I, National Edition (EWRT 65A or EWRT 65AX), with emphasis on individual and team leadership in magazine work, including screening, evaluation and selection of fiction, poetry, art and other submissions for national literary journal as well as coordinating subcommittees in copy editing, issue planning, management, production, or design.

EWRT 68A Literary Magazine I, Student Edition 2 Units
EWRT 68AX 3 Units
(Formerly EWRT 68 and EWRT 68X respectively.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Two hours lecture for the two-unit course (24 hours total per quarter); two hours lecture, three hours laboratory for the three unit course (60 hours total per quarter).
Collaborative evaluation and selection of fiction, poetry, photography, drawings, and other literary and artistic work for student edition of literary magazine. Emphasis on layout, design, production, publicity, event planning, and magazine distribution along with soliciting, submission management, manuscript evaluation, and copy editing.

EWRT 68B Literary Magazine II, Student Edition 2 Units
EWRT 68BX 3 Units
Prerequisite: EWRT 68A or EWRT 68AX.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Two hours lecture for the two unit course (24 hours total per quarter); two hours lecture, three hours laboratory for the three unit course (60 hours total per quarter).
Continuation of Literary Magazine I, Student Edition (EWRT 68A or EWRT 68AX) with emphasis on genre-specific and specialized work in layout, design, production, publicity, event planning, and magazine distribution along with soliciting, submission management, manuscript selection, screening, and copy editing. Collaborative evaluation of fiction, poetry, photography, drawings, and other literary and artistic work for student edition of literary magazine.

EWRT 68C Editorial Leadership Literary Magazine, Student Edition 2 Units
EWRT 68CX 3 Units
Prerequisite: EWRT 68A or EWRT 68AX.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Two hours lecture for the two unit course (24 hours total per quarter); two hours lecture, three hours laboratory for the three unit course (60 hours total per quarter).
Continuation of Literary Magazine I, Student Edition (EWRT 68A or EWRT 68AX), with emphasis on independent and team leadership in magazine organizational processes including layout, design, production, publicity, event planning, and magazine distribution along with soliciting, submission management, manuscript selection, screening, and copy editing. Includes collaborative evaluation of fiction, poetry, photography, drawings, and other literary and artistic work for student edition of literary magazine.

EWRT 77 Special Projects in English 1 Unit
EWRT 77X 2 Units
EWRT 77Y 3 Units
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Pass-No Pass (P-NP) course.
Special reading, writing, or study projects in English as determined in consultation with the instructor.

EWRT 81 Extended Writing Strategies 1 Unit
Requisite/Advisory: None.
One hour lecture (12 hours total per quarter).
An exploration of writing as a multistep process in order to determine proper audience, organization, and argumentative stance for optimal rhetorical effect.

EWRT 141 Beginning Poetry Writing 4 Units
Credit course - Does not apply to De Anza associate degree.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Four hours lecture (48 hours total per quarter).
Development of poetry writing skills through practice and exposure to a variety of poetic forms.

EWRT 200 Fundamentals of Writing 5 Units
Credit course - Does not apply to De Anza associate degree.
Prerequisite: Qualifying score on the English Placement Test.
Five hours lecture (60 hours total per quarter).
Pass-No Pass (P-NP) course.
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.

EWRT 211 Preparatory Reading and Writing Skills 5 Units
Credit course - Does not apply to De Anza associate degree.
Prerequisite: EWRT 200 and READ 200 (or LART 200); or a qualifying score on the English Placement Test.
Five hours lecture (60 hours total per quarter).
Pass-No Pass (P-NP) course.
Develops the abilities necessary for college-level writing by introducing students to critical thinking via text-based analysis. Essay construction including thesis statements and paragraph organization and development, as well as focusing on the mechanics of writing, such as sentence-level skills will be covered.

ENVIRONMENTAL SCIENCE

ESCI 1 Environmental Science 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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
(See general education pages for the requirement this course meets.)
Prerequisite: ESCI 1 (may be taken concurrently).
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Three hours laboratory (36 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture, three hours laboratory (84 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5; ESCI 19.
Four hours lecture, three hours laboratory (84 hours total per quarter).
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 and the biodiversity crisis locally and globally.

ESCI 21 Biodiversity 2 5 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture, three hours laboratory (84 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture, three hours laboratory (84 hours total per quarter).
An introduction to conservation biology as a branch of the environmental sciences with particular focus on maintaining genetic, species, ecological and functional 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 Science Technology 4 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Explores wildlife science practice and technology in the 21st century including the scientific principles of corridor ecology, landscape ecology and connectivity and ecosystem (adaptive) management. Applies the principles (theory) of wildlife science technology to assist in the preservation, protection and restoration of native species and ecosystems.

ESCI 54 Wildlife Science Technician: Data Analysis 3 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Three hours lecture (36 hours total per quarter).
Explores the data analysis techniques (including least cost path analysis), protocol and equipment utilized in wildlife corridor technology. Applies 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 Science Technician: Corridor Design 3 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Three hours lecture (36 hours total per quarter).
Examines the process of wildlife science corridor (connectivity) design in the 21st century, incorporating the principles and challenges of corridor ecology, ecosystem (adaptive) management and the urban-wildlife interface. Applies the principles of wildlife corridor design to assist in the preservation, protection and restoration of native landscape, species and ecosystems.

ESCI 56 Wildlife Science Technician: Plant Survey Techniques 3 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Three hours lecture (36 hours total per quarter).
Examines the plant survey techniques and plant community ecology principles utilized in wildlife science corridor and landscape design, preservation or restoration. Applies these plant survey techniques to assist in the preservation, protection and restoration of native species and ecosystems.

ESCI 57 Wildlife Corridor Technician: Wildlife Tracking 2 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Six hours laboratory (72 hours total per quarter).
Wildlife tracking field studies lab course exploring wildlife movement and wildlife corridors locally. Applies the principles of wildlife corridor technology to assist in the preservation, protection and restoration of native species and ecosystems.

ESCI 58 Wildlife Corridor Technician: Wildlife Tracking and Landscape Linkages for California 2 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Six hours laboratory (72 hours total per quarter).
Wildlife tracking and landscape linkages field studies lab course exploring wildlife movement, habitat utilization, data collection and analysis and in the Central Coast Region of California as part of the first large scale statewide landscape connectivity study conducted by the Wildlife Corridor Technician (WCT) Program, Environmental Studies Department, De Anza College, entitled: Safe Passage for Coyote Valley; A Wildlife Linkage for the Highway 101 Corridor, A User's Guide to Protecting Highway Crossings for Wildlife While Connecting California's Students with Science and Nature. Applies the wildlife tracking principles and techniques as well as relevant state and federal legislation and policy to an actual statewide corridor case study to assist in the preservation, protection and restoration of native species, ecosystems and landscape connectivity statewide.

ESCI 61 Introduction to Photovoltaic (PV) Technology 3 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
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 63 Photovoltaic (PV) Technology Field Project 2 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; ESCI 61.
Six hours laboratory (72 hours total per quarter).
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 77 **Special Projects in Environmental Science** **1 Unit**
ESCI 77X **2 Units**
ESCI 77Y **3 Units**
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Individual research in environmental science. Specific projects determined in consultation with the instructor. Outside reading and written report required.

ESCI 82 **Central Coast Wildlife Corridors: Coyote Valley** **1 Unit**
ESCI 82X **2 Units**
ESCI 82Y **3 Units**
ESCI 82Z **4 Units**
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
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.

ESCI 87 **Central Coast Wildlife Corridors: Diablo Range** **1 Unit**
ESCI 87X **2 Units**
ESCI 87Y **3 Units**
ESCI 87Z **4 Units**
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
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**
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
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**
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
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 92 **Santa Clara County Field Studies: Raptors** **1 Unit**
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introductory study of environmental issues, their underlying causes and potential solutions from an interdisciplinary perspective, considering history, culture, philosophy and ethics, law and regulation, politics, economics, and management practices. Topics include current environmental issues related to nature/wildlife preservation, natural resource use and conservation, pollution control and prevention, and energy use and climate change. Students learn how their personal and career choices and actions can protect nature, preserve natural resources, prevent pollution, reduce energy demands and decrease climate change impacts for the benefit of current and future generations. (One field trip may be required outside of class time.)

E S 2 **Humans, the Environment, and Sustainability** **4 Units**
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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**
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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**
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introduction to environmental law and regulation in the U.S. and California, addressing the areas of air quality, water quality, waste management, natural resources management and preservation, energy and land use, along with international environmental agreements (such as the Kyoto Protocol) and environmental equity concerns.

E S 50 **Introduction to Environmental Resource Management and Pollution Prevention** **2 Units**
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture (24 hours total per quarter).
An introduction to the field of environmental resource management and pollution prevention, surveying the areas of environmental law, policy, and regulation, environmental health, pollution control (treating or capturing pollution/waste at its source prior to release into the environment), pollution prevention (reducing or eliminating pollution/waste at its source through use of the "three R's": Reduce-Reuse-Recycle), and efficient/sustainable use of natural resources (air, water, land, etc.). Includes overviews of: 1) U.S. and California environmental laws, regulations, and policies, 2) Environmental health issues, 3) Pollution control technologies, 4) Pollution prevention approaches and techniques (Life Cycle Assessment, Design for the Environment, Product Stewardship, Green Building, Green Chemistry, Energy Management, Water Conservation, etc.) and 4) Environmental resource management tools, including Environmental Management Systems (such as ISO 14001) and Sustainability Management Plans.

E S 56 **Introduction to Environmental Health** **4 Units**
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Explores the effects that environmental hazards - such as air and water pollution, industrial and hazardous wastes, food and water-borne diseases, and pesticides and other toxic chemical-containing products, including consumer products - have on human health. Investigates laws, regulations, standards and policies governing environmental and occupational exposure and the means to reduce human health risks from such exposure through the risk assessment and risk management processes.

E S 58 **Introduction to Green Building** **1 Unit**
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
An overview of the strategies to implement a green building project within an organization. Strategies include green building policies, best practices and guidelines including LEED (Leadership in Energy and Environmental Design), passive solar design, use of sustainable materials and energy efficiency in buildings, as well as an assessment of the impact of construction and buildings on society, economics, the environment.

E S 61A Environmental Resource Management and Pollution Prevention: Air, Water and Land 3 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
Explores environmental protection (pollution control and prevention) and resource management, focusing on air, water and land resources. Examines the legal, technical and practical management aspects involved in protecting and sustainably using/managing such resources. Explores associated job and career opportunities in these areas.

E S 61B Environmental Resource Management and Pollution Prevention: Energy, Chemicals and Waste 3 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
Explores environmental protection (pollution control and prevention) and resource management, focusing on: 1) energy and chemical production and use and 2) prevention and management of solid and hazardous waste. Examines the legal, technical and practical management aspects involved in: 1) producing and using energy and chemicals/chemical products, 2) recovering resources from waste materials and 3) disposing of non-recoverable waste materials. Explores associated job and career opportunities in these areas.

E S 62A Environmental Management Tools: Environmental Management Systems (EMS) and Environmental Performance Metrics 3 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
Examines: 1) Environmental Management Systems (systematic approaches, such as ISO 14001 and EMAS, used to achieve both regulatory compliance and 'beyond compliance' environmental improvement within organizations), and 2) Environmental Performance Metrics (various measurements of environmental performance) and associated reporting of such metrics. Explores associated job and career opportunities in these areas.

E S 62B Environmental Management Tools: CEQA and Environmental Impact Reports (EIRs) 3 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
Examines Environmental Impact Reports (EIRs) which are used as a means to evaluate, mitigate and publicly disclose the environmental effects of significant public projects under the California Environmental Quality Act (CEQA). Focus is on the required components of standard EIRs and how EIRs are generated. Case studies involving local projects are presented and examined. Explores job and career opportunities associated with CEQA/Environmental Impact Reporting.

E S 62C Environmental Management Tools: Environmental Site Assessments (ESAs) 3 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
Examines Environmental Site Assessments (ESAs) which are used to assess (prior to their sale or redevelopment/ reuse) industrial, commercial and 'brownfield' sites for significant environmental contamination and, if found, then developing and evaluating alternatives to 'remediate' (clean up or contain) the contamination found to acceptable levels. Focus is on the required components of a standard Phase I ESA and associated report generation. Explores associated job and career opportunities, including becoming a Registered Environmental Assessor (REA).

E S 62D Environmental Management Tools: Industrial Ecology and Sustainable Design Principles 3 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
Examines Industrial Ecology (applying the lessons of nature to industrial processes, products and systems) and associated sustainable design concepts, principles and tools (Biomimicry, Life Cycle Impact Assessments, Design for the Environment, Design for Recycling/Reuse, Water/Energy/Materials Conservation, Green Building, Green Chemistry). Also includes examination of Product Stewardship (Extended Producer Responsibility) policies to enhance reuse/recycling efforts and prevent pollution. Explores associated job and career opportunities.

E S 63 Agenda 21: Blueprint for Sustainability 1 Unit

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
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

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
Explores the role of environmental citizenship including personal responsibility and participation within environmental case studies. Students will 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
Explores the role of environmental leadership, including development and implementation of leadership skills and theories. Apply those leadership skills and theories to address environmental case studies.

E S 67 Environmental Team-Building 1 Unit

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
Explores the concept of team-building, including development and implementation of team-building skills and models. Apply those team-building skills and models developed to address environmental case studies.

E S 68 Community-Based Coalitions and Stakeholders 1 Unit

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
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 environmental case studies.

E S 69 Energy Management Within Your Organization 1 Unit

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
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.

E S 69A Introduction to Facilities Management 3 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture (36 hours total per quarter).
An introduction to the key concepts of Facility Management that range from the role the facility manager plays in the organization to the skill sets and competencies required to effectively perform the FM role. Building facilities are a company's second largest asset. It is important for facility managers to play a key role in supporting the company's largest asset -- the employees. The successful FM can help improve employee productivity and job satisfaction, ultimately leading to improved financial outcomes for the company and happier, healthier and productive work environments for employees. (One or more facility management field trip may be required for this class).

E S 70 Introduction to Energy, Management, and Technology 1 Unit

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
Provides a general overview of the field of Energy Management and its importance to society at all levels. In particular, the evaluation, operation, and maintenance of energy systems in residential and small commercial buildings will be looked at, including alternative and renewable energy sources, in order to improve efficiency, reduce costs, and minimize environmental impacts.

E S 70B Advanced Energy Management Technology 2 Units

Prerequisite: E S 70.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One and one-half hours lecture, one and one-half hours laboratory (36 hours total per quarter).
Examines advanced concepts utilized in energy efficient commercial buildings. Course covers principles of energy, heat transfer, measurement and unit conversion, phase change, psychrometrics. Energy Management Technology and the importance and applications of building performance, controls and monitoring using the Kirsch Center for Environmental Studies and other campus-wide buildings in a lab setting is also examined. Utilizes building performance tools and equipment, energy audit technology, and an overview of the whole building concept and related energy and conservation strategies.

E S 71 The Building Envelope 1 Unit

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
Presents a general overview of Energy Efficient Buildings with an emphasis on residential and small commercial buildings. Specific topics to be covered include: energy use in buildings, bioclimatic design, energy basics, heat transfer concepts, whole building thermal analysis, as well as other important building energy efficient issues.

E S 71B Advanced Building Envelope 2 Units
Prerequisite: E S 71.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One and one-half hours lecture, one and one-half hours laboratory (36 hours total per quarter).
Advanced examination of 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. Hands-on experience in understanding the thermal performance of major building envelope components utilizing the Kirsch Center for Environmental Studies and campus buildings in a lab setting is provided.

E S 72 Heating, Ventilating and Air Conditioning (HVAC) Systems 1 Unit
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
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 72B Advanced Heating, Ventilating and Air Conditioning (HVAC) Systems 2 Units
Prerequisite: E S 72.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One and one-half hours lecture, one and one-half hours laboratory (36 hours total per quarter).
Examines HVAC systems in-depth - the systems that provide heating, cooling, humidity control, filtration, and comfort control to facilities. Explores various HVAC systems in a hands-on setting including their interrelationship with other building energy systems. The Kirsch Center for Environmental Studies and other campus-wide buildings as a learning laboratory will be utilized. 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.

E S 73 Electric Motors and Drives 1 Unit
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
Presents a general overview of Lighting Distribution Systems with an emphasis on residential interior applications. Provides an introduction to basic lighting principles, the visual experience, and different lighting technologies and controls, as well as other important lighting issues.

E S 74B Advanced Lighting Distribution Systems 2 Units
Prerequisite: E S 74.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One and one-half hours lecture, one and one-half hours laboratory (36 hours total per quarter).
Explores, in detail, the fundamentals of lighting systems and controls for energy auditors. Concepts of lighting, terminology, measurement tools, identifying energy efficiency opportunities, codes, and standards will be covered. Examines lighting strategies for building facilities managers and utilizes the Kirsch Center for Environmental Studies and other campus-wide buildings as a learning laboratory.

E S 75 Electric Power Systems 1 Unit
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
An introduction to electric power systems, focusing on distribution components such as transformers, switch gear, distribution panels and wiring. Power systems analysis, preventative, maintenance, and record keeping techniques will be discussed. Emphasis will be placed on opportunities within facilities distribution systems to save energy, increase equipment life, and reduce unscheduled outages.

E S 75B Advanced Electric Power Systems 2 Units
Prerequisite: E S 75.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One and one-half hours lecture, one and one-half hours laboratory (36 hours total per quarter).
Explores the applicability of various DR strategies including global temperature adjustment, global dimming for lights, pre-cooling and load control devices. DR rates and incentive types will be covered. Other topics include thermal storage and other load shifting systems, AutoDR, persistence and commissioning of these systems. Utilizes of the Kirsch Center for Environmental Studies and other campus-wide buildings as a learning laboratory.

E S 76 Energy Star Products 1 Unit
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
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
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
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 (36 hours total for each unit of credit per quarter).
Individual research in environmental studies. Specific projects determined in consultation with the instructor. Outside reading and written report required.

E S 78 Energy Management Systems and Controls 1 Unit
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
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 78B Advanced Energy Management Systems and Controls 2 Units
Prerequisite: E S 78.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One and one-half hours lecture, one and one-half hours laboratory (36 hours total per quarter).
Examines detailed strategies for building operations systems and control systems. Covers building automation systems including IP based solutions and looks at the financial return on investment of implementing a building management and control system. The Kirsch Center for Environmental Studies and other campus-wide buildings as a learning laboratory will be utilized.

E S 79 Renewable and Alternative Energy Systems 1 Unit
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).
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, environmental protection, environmental justice, economic, and political issues associated with habitat and species loss will be discussed, as well as impacts on various cultural, ethnic and socio-economic groups. (Off-campus field trips may be required.)

E S 81 Leadership in Energy and Environmental Design/Sustainability Codes 2 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture (24 hours total per quarter).
An introductory course designed for students and employees seeking to learn more about green building and how it can benefit their company. Topics covered will include the triple bottom line of sustainability, current market trends in green building, the Building Energy Code (Title 24, section 6), Appliance Code (Title 20), and the Green Building Code (Title 24, section 11). Includes modules on simulation tools that can be used for code compliance, analysis of the potential impact for specific EE and DR measures, verification of energy savings efforts, and the process of greening existing energy portfolios.

E S 82 Project Management and Technical Report Writing for Energy Professionals 2 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture (24 hours total per quarter).
Addresses the key project management components required in leading and coordinating energy efficiency programs in cross functional organizations. Explores project communication strategies, writing compelling and accurate technical reports for commercial and residential building energy audits targeted at nontechnical audiences and company/organization decision makers. Includes project coordination, report writing, spreadsheets, formats, templates, proposal writing, inserting graphics and charts and the financial analysis of energy efficiency proposals for commercial and residential buildings.

E S 83 Energy Management Return on Investment 2 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture (24 hours total per quarter).
An overview of utility rate types and charges and exploration of building energy benchmarking tools such as Energy Star Portfolio Manager and LBNL's Energy IQ. Methods for estimating costs, and calculating the financial benefits of recommended energy efficiency and renewable energy projects and determining the return on investment and cost benefits of energy efficiency changes in commercial and residential buildings will be analyzed.

E S 84 Residential Solar Design and Installation 1 Unit

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
Analysis of the key factors in designing and installing a residential solar system. Residential solar installation trends, emerging technologies and strategies, how to size the system, evaluation of modules and inverters, shading analysis, rebates and tax incentives, economic payback, buy vs. lease options, performance monitoring and how to install a complete residential solar systems will be covered. Students will spend three hours to become OSHA 10 solar safety certified to install residential solar energy systems.

E S 85A California Native Plants and Animals 2 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture (24 hours total per quarter).
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 (ESA), outdoor lab. Teaching environmental education and interpretive techniques to various ethnic, cultural and socioeconomic groups will be explored. (Field project required.)

E S 85B Environmental Education Interpretive Training 2 Units

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture, three hours laboratory (48 hours total per quarter).
Interpretative techniques of environmental education and environmental outreach utilizing the Cheeseman Environmental Study Area, the Kirsch Center, De Anza College campus and open space sites, parks and refuges in Santa Clara County. Students will refine the techniques required for leading tours and interpreting California native plant and animal communities in the Santa Clara County outdoor settings. Students will conduct 2-4 lead tours at the Cheeseman Environmental Studies Area or at local elementary schools. 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 93 Sustainability Across the Curriculum 1 Unit

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
Learn about saving the planet through environmental careers, including ecosystem management, restoration ecology, corridors ecology, environmental justice, 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter) under the supervision of the instructor and the internship personnel.
A volunteer or work experience internship. In this course the student will be engaged in an internship in business, industry, government, an institution, or a non-governmental organization related to the student's field of study.

FILM AND TELEVISION PRODUCTION

F/TV 1 Introduction to Cinematic Arts 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in F/TV 1H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introduction to the close analysis of film and television texts. The course will examine broad questions of form and content, aesthetics and meaning, and history and culture. Using a wide variety of media, filmmakers and film movements, the course explores the diverse possibilities presented by the cinematic art form. Topics include modes of production, narrative and non-narrative forms, visual design, editing, sound, genre, ideology and critical analysis.

F/TV 1H Introduction to Cinematic Arts - HONORS 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in F/TV 1.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introduction to the close analysis of film and television texts. The course will examine broad questions of form and content, aesthetics and meaning, and history and culture. Using a wide variety of media, filmmakers and film movements, the course explores the diverse possibilities presented by the cinematic art form. Topics include modes of production, narrative and non-narrative forms, visual design, editing, sound, genre, ideology and critical analysis. As an honors course, students will be expected to complete extra assignments to gain deeper insight into the discipline of cinematic arts.

F/TV 2A History of Cinema (1895-1950) 4 Units
F/TV 2AW 4 ½ Units

(See general education pages for the requirement this course meets.)
(Students may enroll in either F/TV 2A or F/TV 2AW, but not both, for credit.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture for the four unit course (48 hours total per quarter); four and one-half hours lecture for the four and one-half unit course (54 hours total per quarter).
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. Expanded topics in historiography, such as problems and approaches to historical film research and analysis will be covered in F/TV 2AW.

F/TV 2B History of Cinema (1950-Present) 4 Units
F/TV 2BW 4 ½ Units

(See general education pages for the requirement this course meets.)
(Students may enroll in either F/TV 2B or F/TV 2BW, but not both, for credit.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture for the four unit course (48 hours total per quarter); four and one-half hours lecture for the four and one-half unit course (54 hours total per quarter).
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 cinematic arts; an examination of the value systems reflected in and shaped by these works from diverse cultures. Expanded topics in historiography, such as problems and approaches to historical film research and analysis will be covered in F/TV 2BW.

F/TV 2C Contemporary World Cinema 4 Units
F/TV 2CW 4 ½ Units

(See general education pages for the requirement this course meets.)
(Students may enroll in either F/TV 2C or F/TV 2CW, but not both for credit.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture for the four unit course (48 hours total per quarter); four and one-half hours lecture for the four and one-half unit course (54 hours total per quarter).
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 2CW will cover expanded topics in historiography, such as problems and approaches to historical film research and analysis.

F/TV 6A Screenwriting Fundamentals for Film/Video I 4 Units
(Formerly F/TV 60A.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Introduction to scriptwriting for film and electronic media; 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 10 Introduction to Electronic Media 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 Beginning Video Production 4 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Three hours lecture, three hours laboratory (72 hours total per quarter)
Basic introduction to the workflows of single-camera video production is offered in this course. Skills learned will cover all three phases of production from pre-production through post production. Using single camera production techniques, students will learn scripting, camera and audio recording, location lighting, directing, and editing through the completion of short video projects.

F/TV 22 Beginning 16mm Motion Picture Production 4 Units
Prerequisite: F/TV 20.
Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).
An introduction to the production processes of 16mm motion picture film. Topics will include scriptwriting, pre-production, directing techniques, camera operation, and basic cinematography in conjunction with creative picture sound editing. Subjects will be covered through the study and analysis of exemplary motion pictures as well as through a series of filmed student projects.

F/TV 23 Beginning TV Studio Production 4 Units
(Formerly F/TV 55A.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Three hours lecture, three hours laboratory (72 hours total per quarter).
An introduction to the roles and procedures used in the operation of a multi-camera television studio and control room. Students will produce TV content with an emphasis on studio signal flow, switcher operation, graphics/chyrons, directing, camera, lighting, and audio recording in a real-time video recording environment.

F/TV 26 Introduction to Film/Television Directing 4 Units
(Formerly F/TV 50.)
Prerequisite: F/TV 20.
Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).
Development and execution of short, single-camera-style projects focusing on the skills of directing and editing.

F/TV 27 Nonlinear Editing 4 Units
(Formerly F/TV 53.)
Prerequisite: F/TV 20.
Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).
Concepts and techniques of nonlinear digital video editing will be covered, including organization of the editing process, working in the timeline, audio editing, and basic visual effects. Emphasis will be placed on identifying general principles of film editing as well as different aesthetic techniques for different source material, such as commercials, dialogue scenes, and documentaries.

F/TV 29 Lighting for Film and Television 4 Units
(Formerly F/TV 12.)
Prerequisite: F/TV 20.
Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).
An introduction to the basic principles of studio and location lighting for film, television, animated, and composited production. Aesthetic style and techniques of lighting in professional productions will be analyzed and applied through practical exercises filmed in studio. The focus will be on set-based principles involving basic electricity, lighting instruments, dimming equipment, color, recording media, and grip equipment.

F/TV 30 Location Recording and Sound Design 3 Units
(Formerly F/TV 63A.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two and one-half hours lecture, one and one-half hours laboratory (48 hours total per quarter).
Study of the art and techniques of audio recording for film and video with emphasis on pre-production and production in studio and on location. Examines the aesthetics of design and the technologies of analog and digital audio through manipulation of sound in the aural and recorded environment.

F/TV 31 Audio Post Production 3 Units
(Formerly F/TV 63B.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two and one-half hours lecture, one and one-half hours laboratory (48 hours total per quarter).
Concepts and techniques of audio post production for film and video including nonlinear audio editing, sound effect scoring, foley, cutting sound to picture, and audio mixing.

F/TV 39 Intermediate Digital Film and Video Production 4 Units
(Formerly F/TV 51A.)
Prerequisite: F/TV 20.
Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).
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 41 Film Genres 4 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Analysis of specific film genres such as 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 quarterly schedule of classes).

F/TV 42 National Cinemas 4 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 quarterly class schedule).

F/TV 43 Film Artists 4 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Analysis of the works of specific film artists, such as directors Alfred Hitchcock or Spike Lee; 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 quarterly schedule of classes).

F/TV 44A 16mm/35mm Film Production I 4 Units
(Formerly F/TV 52A.)
Prerequisite: F/TV 22.
Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).
Pre-production, laboratory procedures, interior and exterior lighting techniques, color cinematography for 16mm and 35mm film production. Emphasis on individual student projects.

F/TV 44B 16mm/35mm Film Production II 4 Units
(Formerly F/TV 52B.)
Prerequisite: F/TV 44A.
Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).
Advanced production and post-production techniques including sync sound production and editing, music editing, and preparing for the final mix in 16mm and 35mm film production. Emphasis on individual student projects.

F/TV 45 History of Experimental Film/Video 4 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
A survey of various experimental styles and practices in film and video, addressing the artists and historical developments of these media formats. The course situates experimental film and video work within the larger contexts of artistic traditions as well as networks of production and reception.

F/TV 56A Introduction to Visual Effects and Color Grading 4 Units
Prerequisite: F/TV 20.
Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).
Overview of finishing steps in modern, digital post-production. Film and television-based usage of Adobe After Effects in practical applications such as titling and composite work will be covered along with color grading in DaVinci Resolve.

F/TV 57A Nonfiction Workshop I: The Documentary 4 Units
Prerequisite: F/TV 20.
Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).
Nonfiction concepts, principles, and techniques as related to the production of a documentary video. Examination of the historical roots in nonfiction film and television with emphasis on production work in documentary formats.

F/TV 57B Nonfiction Workshop II: The Documentary 4 Units
Prerequisite: F/TV 57A.
Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).
Advanced techniques in nonfiction film and television, including cinematography, sound, lighting, post-production editing, and directing. Analysis of the modern film and television documentary with emphasis on production of a completed documentary video.

F/TV 58S Film/Television Production Workshop 1 Unit
F/TV 58T 2 Units
F/TV 58U 3 Units
F/TV 58V 4 Units
Prerequisite: F/TV 20.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
A production workshop 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: EWRT 1A or EWRT 1AH or ESL 5; F/TV 6A.
Four hours lecture (48 hours total per quarter).
Roles and responsibilities of the media producer. Skills and knowledge required in developing a production proposal; including development, audience analysis, location scouting, production schedule, budgeting and distribution.

F/TV 60B Screenwriting Fundamentals for Film/Video II 4 Units
Prerequisite: F/TV 6A.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Second level course in screenwriting; examination of structure and characterization in dramatic narrative; consideration of approach and structure in nonfiction; emphasis on development and writing of original short and feature-length screenplays.

F/TV 60C Screenwriting Fundamentals for Film/Video III 4 Units
Prerequisite: F/TV 60B.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Advanced beginning course in screenwriting for film, video, and electronic media; further practice in the development, writing, and revision of short and feature-length screenplays.

F/TV 64A Advanced Screenwriting Workshop I 4 Units
Prerequisite: F/TV 60B or F/TV 60C.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Fictional screenwriting geared toward the planning, outlining and structuring of an original three-act feature-length fiction screenplay and the writing of the first-act.

F/TV 64B Advanced Screenwriting Workshop II 4 Units
Prerequisite: F/TV 64A.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An intensive seminar in writing feature-length fiction screenplays. Practice in the development and completion of a three-act narrative script focusing on plot, character development, arcs, turning points and journeys.

F/TV 64C Advanced Screenwriting Workshop III 4 Units
Prerequisite: F/TV 64B.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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.

F/TV 65 Current Practices in the Film/Video Profession 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Current creative, technical, economic and employment conditions in film and video from the perspective of film and television working professionals.

F/TV 66A Basic Techniques of Animation: 3D Media 3 Units
Requisite/Advisory: None.
Two and one-half hours lecture, one and one-half hours laboratory (48 hours total per quarter).
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.

F/TV 68A Sound for Animation 3 Units
Advisory: F/TV 69A.
Two and one-half hours lecture, one and one-half hours laboratory (48 hours total per quarter).
Techniques of synchronizing animation to sound as applied to music, voice and sound effects tracks. Principles of cinematic animation and sound design, acting, diegetic and non-diegetic sound, visual and sound effects with application to digital editing techniques.

F/TV 69A Principles of Animation: 2D Media 3 Units
Advisory: ARTS 4A.
Two and one-half hours lecture, one and one-half hours laboratory (48 hours total per quarter).
Techniques of two-dimensional animation, as applied to traditional drawing methods. Principles of movement, timing, weight, anticipation and exaggeration with application to both digital and hand-drawn animation.

F/TV 70A The Storyboard and Visual Development for Animation 3 Units
Advisory: F/TV 69A.
Two and one-half hours lecture, one and one-half hours laboratory (48 hours total per quarter).
Techniques of animation pre-production as applied to visual story development, character design, storyboards, environment and prop design. Principles of cinematic design, model sheets, and spatial environment depth with application to both digital and traditional drawn visual development techniques.

F/TV 71G Introduction to 3D Computer Animation: Modeling 4 Units
Requisite/Advisory: None.
Three hours lecture, three hours laboratory (72 hours total per quarter).
Techniques of three-dimensional model creation as applied to objects, characters and environments. Principles of modeling, surface mapping, lighting and rendering with application to 3D computer animation.

F/TV 71H Introduction to 3D Computer Animation: Character Motion 4 Units
(Formerly F/TV 82A.)
Prerequisite: F/TV 66A or F/TV 69A; and F/TV 71G.
Three hours lecture, three hours laboratory (72 hours total per quarter).
Techniques of three-dimensional animation as applied to objects and characters. Application of classic animation principles of movement and timing to 3D computer animation.

F/TV 72G Animated Film Pre-Production Workshop 4 Units
Advisory: F/TV 68A and F/TV 70A; and F/TV 66A or 69A or 82A (dependent on type of animation production to be developed).
Three hours lecture, three hours laboratory (72 hours total per quarter).
Development of the initial concept stages of a short personal film in any style of animation, e.g. drawn, puppet or computer, that can be used as a demo reel in a professional portfolio. Creation of storyboards, set designs, character models, voice tracks and animatics.

F/TV 72H Animated Film Production Workshop 4 Units
Prerequisite: F/TV 72G.
Three hours lecture, three hours laboratory (72 hours total per quarter).
Execution of the principal production stages of a short personal film in any style of animation, e.g. drawn, puppet or computer, that can be used as a demo reel in a professional portfolio. Creation of character and effects animation, models for sets and props, and, if needed, synchronized musical cues.

F/TV 72J Animated Film Post-Production Workshop 4 Units
Prerequisite: F/TV 72H.
Three hours lecture, three hours laboratory (72 hours total per quarter).
Creation of the final production stages of a short personal film in any style of animation, e.g. drawn, puppet or computer, that can be used as a demo reel in a professional portfolio. Completion of character animation. Editing and compositing of picture tracks, sound effects and musical score. Investigation of career options and marketing strategies as they pertain to each student's project. Formulation of portfolios and demo reels.

F/TV 75G History of Animation (1900-Present) 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An international survey of the historical development of the animated film, from its origins to a contemporary art form, with emphasis on the contributions of Fleischer, Disney, Warner Bros., Zegreb, Studio Ghibli, and National Film Board of Canada, as well as many important independent artists; an investigation of the aesthetic, technological, economic, and social factors that contributed to the form; an examination of the value systems reflected in and shaped by works from diverse cultures.

F/TV 75K Japanese Animation 4 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An examination of the post-1960's evolution of animated films in Japan, a national cinema famed for its range of subject matter and outstanding graphics. Provides critical methodology for analysis of exemplary and influential works by distinguished artists, writing collectives and production studios from aesthetic, sociopolitical, economic and technological perspectives.

F/TV 78W Special Topics in Film Studies 1 Unit
F/TV 78X 2 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).
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 quarterly schedule of classes).

F/TV 92 Special Topics: Industry Professionals and Practices 1 Unit
Requisite/Advisory: None.
One hour lecture (12 hours total per quarter).
An investigation into techniques and procedures utilized by industry professionals in some specific aspect of media production. Topics will vary by quarter and will be predetermined by the guest artist or faculty member.

F/TV 98G Fiction Workshop (The Writer, Producer, Director) 3 Units
Prerequisite: F/TV 20.
Two hours lecture, three hours laboratory (60 hours total per quarter).
Advanced workshop in the writing, producing or directing of complex scenes or multiple scene works of narrative/dramatic film or video. Emphasis will be placed on working as a team in a class-wide collaborative project.

F/TV 98H Fiction Workshop (The Technical Crew) 3 Units
Prerequisite: F/TV 20.
Two hours lecture, three hours laboratory (60 hours total per quarter).
Advanced workshop in cinematography, lighting, art direction, sound recording, and other craft skills essential to the production of narrative/dramatic film and video projects. Emphasis will be placed on working as a team in a class-wide collaborative project.

F/TV 98J Fiction Workshop (Editing/Post Production) 3 Units
Prerequisite: F/TV 27.
Two hours lecture, three hours laboratory (60 hours total per quarter).
Advanced workshop in the post-production phase including elements of picture and sound editing and sound design for narrative/dramatic film and video projects. Emphasis will be placed on working as a team in a class-wide collaborative project.

FRENCH

FREN 1 Elementary French (First Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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.

FREN 2 Elementary French (Second Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: FREN 1 (equivalent to one year of high school French) or equivalent.
Five hours lecture (60 hours total per quarter).
Further development of material presented in FREN 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.

FREN 3 Elementary French (Third Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: FREN 2 (equivalent to two years of high school French) or equivalent.
Five hours lecture (60 hours total per quarter).
Further development of material presented in FREN 1 and FREN 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.

FREN 4 Intermediate French (First Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: FREN 3 (equivalent to three years of high school French) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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: FREN 4 (equivalent to four years of high school French) or equivalent.
Five hours lecture (60 hours total per quarter).
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: FREN 5 or equivalent.
Five hours lecture (60 hours total per quarter).
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.

GEOGRAPHY

GEO 1 Physical Geography 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5; MATH 210 or equivalent.
Four hours lecture (48 hours total per quarter).
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. The geographic tools used to explore these topics include maps, GPS, remote sensing and Geographic Information Systems (GIS).

GEO 4 Cultural Geography 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5; MATH 210 or equivalent.
Four hours lecture (48 hours total per quarter).
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 GEO 55.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An exploration of 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: EWRT 1A or EWRT 1AH or ESL 5; MATH 210 or equivalent.
Four hours lecture (48 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture, three hours laboratory (84 hours total per quarter).
Analysis and description of the composition, structure, and development of the earth's external and internal features and the geologic processes responsible for their origin and evolution. Examination of the concepts and principles upon which geologic knowledge is based. (One Saturday field trip is required.)

GEOL 20 General Oceanography 4 Units
(See general education pages for the requirement this course meets.)
Requisite/Advisory: None.
Four hours lecture (48 hours total per quarter).
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.)

GERMAN

GERM 1 Elementary German (First Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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. Emphasis will be on language as an expression of culture. Language laboratory practice to reinforce pronunciation, grammar, syntax and simple conversation.

GERM 2 Elementary German (Second Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: GERM 1 (equivalent to one year of high school German) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Further development of material presented in GERM 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. 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
(See general education pages for the requirement this course meets.)
Prerequisite: GERM 2 (equivalent to two years of high school German) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Further development of material presented in GERM 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. 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
(See general education pages for the requirement this course meets.)
Prerequisite: GERM 3 (equivalent to three years of high school German) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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
(See general education pages for the requirement this course meets.)
Prerequisite: GERM 4 (equivalent to four years of high school German) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Continuation of GERM 4. Read and discuss texts dealing with geography, history, literature, social, and cultural practices of the German-speaking world. Review the linguistic functions and grammatical structures of intermediary German. Speaking, listening, reading, and writing of second-quarter intermediate level of German will be introduced and practiced within a cultural framework.

GERM 6 Intermediate German (Third Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: GERM 5 or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Continuation of GERM 5. Read, discuss and analyze texts dealing with arts, geography, history, literature, social and cultural practices of the German-speaking world. Review the linguistic functions and grammatical structures of intermediary German. Speaking, listening, reading, and writing of third-quarter high intermediate level of German will be introduced and practiced within a cultural framework.

GUIDANCE

GUID 200 Educational Diagnostic Center (EDC) Learning Skills Assessment 1 Unit
Credit course - Does not apply to De Anza associate degree.
Requisite/Advisory: None.
One hour lecture (12 hours total per quarter).
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. An overview of accommodations and services available to students is also provided.

GUID 202 Student Success Strategies 4 Units
Credit course - Does not apply to De Anza associate degree.
Advisory: GUID 200.
Four hours lecture (48 hours total per quarter).
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
Credit course - Does not apply to De Anza associate degree.
Advisory: GUID 200 and/or placement by Educational Diagnostic Center Learning Specialist or Disability Support Services counselor. Basic word processing proficiency or concurrent enrollment in SPED 240 or SPED 245.
Four hours lecture (48 hours total per quarter).
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
Credit course - Does not apply to De Anza associate degree.
Advisory: GUID 200 or placement by a counselor.
Four hours lecture (48 hours total per quarter).
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
Credit course - Does not apply to De Anza associate degree.
Advisory: GUID 200 or placement by a counselor.
Four hours lecture (48 hours total per quarter).
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
Credit course - Does not apply to De Anza associate degree.
Advisory: GUID 200 or placement by a counselor.
Four hours lecture (48 hours total per quarter).
Pass-No Pass (P-NP) course.
A transitional class for students with special learning needs. The course is designed to improve skills in mathematics by addressing areas of difficulty common to students with disabilities in mathematics. The course moves at a slower pace with small group instruction. This class also includes alternative learning strategies for mastering algebraic concepts.

GUID 218 Educational Diagnostic Center (EDC) Group Instructional Assistance 1 Unit
Credit course - Does not apply to De Anza associate degree.
Advisory: GUID 204, 207, 209, or 211.
Three hours laboratory (36 hours total per quarter).
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 in basic skills for mathematics and/or language arts.

HEALTH

HLTH 21 Contemporary Health Concerns 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 57A First Aid for the Community, Home, Wilderness, and Disasters 1 Unit
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
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 illnesses until advanced medical personnel take over. Adaptations for delayed help in situations such as a wilderness environment or after an earthquake. Upon successful completion of the course, each participant will receive an American Red Cross certification in Standard First Aid (valid for three years).

HLTH 57D CPR/AED for the Professional Rescuer - Recertification ½ Unit
Prerequisite: Must have current certificate from the American Red Cross for Cardiopulmonary Resuscitation and Automated External Defibrillation (CPR/AED) for Professional Rescuers and Health Care Providers or the American Heart Association equivalent.
One and one-half hours laboratory (18 hours total per quarter).
Pass-No Pass (P-NP) course.
Designed to recertify the trained candidate in CPR/AED for Professional Rescuers and Health Care Providers. The course meets Cal-OSHA standards for basic requirements.

HEALTH TECHNOLOGIES

HTEC 50 Introduction to Health Technologies 2 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Two hours lecture (24 hours total per quarter).
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 60A Basic Medical Terminology 3 Units
Advisory: HTEC 50 (may be taken concurrently).
Three hours lecture (36 hours total per quarter).
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 I 2 Units
Prerequisite: HTEC 60A.
Two hours lecture (24 hours total per quarter).
Application of medical terminology to the following body systems: digestive, urinary, reproductive, nervous, integumentary, sensory organs, and radiology.

HTEC 60H Advanced Medical Terminology II 2 Units
Prerequisite: HTEC 60A.
Two hours lecture (24 hours total per quarter).
Application of medical terminology to the following body systems: cardiovascular, respiratory, blood and lymphatics, musculoskeletal, endocrine, oncology, pharmacology, psychiatry.

HTEC 61 Medical Communications 1 ½ Units
Co-requisite: HTEC 61 students must also enroll in HTEC 101C.
Advisory: HTEC 60A.
One hour lecture, two hours laboratory (36 hours total per quarter).
Application of medical terminology, abbreviations, symbols, numbers, keyboarding appropriate formats in medical communications; medical chart notes, history and physicals, consultations and operative reports.

HTEC 64A Clinical Laboratory Procedures I 1 ½ Units
Advisory: HTEC 60A.
One hour lecture, two hours laboratory (36 hours total per quarter).
Introduction to the clinical laboratory: infection control, bloodborne pathogen standard, safety standards, laboratory requisition, specimen requirements, patient preparation, patient identification, specimen identification, venipuncture and skin puncture equipment.

HTEC 64B Clinical Laboratory Procedures II 3 Units
Prerequisite: HTEC 64A and HTEC 101A (may be taken concurrently). Students who have successfully passed HTEC 101A must enroll in either HTEC 101L or HTEC 101M concurrently.
Three hours lecture (36 hours total per quarter).
Addresses blood collection procedures and includes: safety, infection collection, circulatory system, pre-analytical considerations, blood collection equipment and supplies, blood collection procedures for venipuncture and skin puncture, special collections, specimen processing and handling, quality assurance, and legal issues.

HTEC 68 Medical Reception Externship 2 Units
Prerequisite: HTEC 60A, 71 and 73.
Six hours laboratory (72 hours total per quarter).
Practical medical reception experience in medical clinics.

HTEC 71 Medical Office Reception 2 Units
Advisory: HTEC 60A.
Two hours lecture (24 hours total per quarter).
Duties of the medical receptionist with emphasis on oral communications and appointment scheduling.

HTEC 72 Medical Office Financial Procedures 1 ½ Units
Co-requisite: HTEC 72 students must also enroll in HTEC 101D.
Advisory: HTEC 60A.
One hour lecture, two hours laboratory (36 hours total per quarter).
Fee determination, billing, diagnostic and procedural coding,commercial and government health insurance programs, health insurance specialist as a career.

HTEC 73 Medical Law and Ethics 3 Units
Advisory: HTEC 60A.
Three hours lecture (36 hours total per quarter).
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 74A Medical Transcription with Editing I 1 ½ Units
(Formerly HTEC 74.)
Prerequisite: HTEC 61.
Co-requisite: HTEC 74A students must also enroll in HTEC 101H.
One hour lecture, one and one-half hours laboratory (30 hours total per quarter).
Development of basic medical transcription skills for a facility using actual dictation from Gastroenterology and Orthopedics specialties; along with the basic skills for speech recognition editing.

HTEC 74B Medical Transcription with Editing II 1 ½ Units
Prerequisite: HTEC 74A.
Co-requisite: HTEC 74B students must also enroll in HTEC 101J.
One hour lecture, one and one-half hours laboratory (30 hours total per quarter).
Development of advanced medical transcription skills for a facility using actual dictation from Obstetrics and Gynecology, Dermatology, and Neurology specialties; along with the basic skills for speech recognition editing.

HTEC 74C Medical Transcription with Editing III 1 ½ Units
Prerequisite: HTEC 74B.
Co-requisite: HTEC 74C students must also enroll in HTEC 101K.
One hour lecture, one and one-half hours laboratory (30 hours total per quarter).
Development of Advanced Medical Transcription skills for a facility using actual dictation from Oncology, Pulmonology, Otorhinolaryngology and Urology specialties; along with the basic skills for speech recognition editing.

HTEC 75 Electronic Health Records 1 ½ Units
Advisory: HTEC 60A and HTEC 72.
One hour lecture, two hours laboratory (36 total per quarter).
Electronic Health Records (EHR) documentation through industry-standard software, basic technology used in EHR implementation, setup EHR software using clinical and administrative tools, create new documentation in EHR, importing documents in a patient's chart, creating templates for procedures and diagnoses.

HTEC 76A Advanced Medical Coding I 1 ½ Units
Prerequisite: HTEC 72.
One hour lecture, one and one-half hours laboratory (30 hours total per quarter).
Introduces the advance concepts and guidelines from (AHA) American Hospital Association, (AHIMA) American Health Information Association, and (AMA) American Medical Association: ICD-9-CM Coding System.

HTEC 76B Advanced Medical Coding II 1 ½ Units
Prerequisite: HTEC 76A.
One hour lecture, one and one-half hours laboratory (30 hours total per quarter).
Introduces the advance concepts and guidelines from (AHA) American Hospital Association, (AHIMA) American Health Information Association, and (AMA) American Medical Association:ICD-10-CM/PCS Coding Systems. (AMA) American Medical Association CPT4 (Current Procedural Terminology) and HCPCS (Healthcare Common Procedure Coding Systems) Outpatient procedure coding systems.

HTEC 77 Special Projects in Health Technology 1 Unit
HTEC 77X 2 Units
HTEC 77Y 3 Units
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Pass-No Pass (P-NP) course.
Individual advanced projects in health technology.

HTEC 80 Clinical Hematology Laboratory 1 ½ Units
Co-requisite: HTEC 80 students must also enroll in HTEC 80A.
Four and one-half hours laboratory (54 hours total per quarter).
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, giemasa and Kleihaure-Betke) will be done. Correlating test results with disease states will be accomplished. Successful completion of this course and HTEC 80A, HTEC 81A, HTEC 81, HTEC 82A and HTEC 82 is required to enroll in Clinical Hematology/Urinalysis/Coagulation Practicum, HTEC 180. This course must be successfully completed in order to qualify for the clinical externship and take the exam.

HTEC 80A Clinical Hematology Lecture 4 ½ Units
Co-requisite: HTEC 80A students must also enroll in HTEC 80.
Four and one-half hours lecture (54 hours total per quarter).
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. This course must be successfully completed in order to qualify for the clinical externship and take the exam.

HTEC 81 Clinical Urinalysis Laboratory 3/4 Unit
Co-requisite: HTEC 81 students must also enroll in HTEC 81A.
Two and one-quarter hours laboratory (27 hours total per quarter).
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 HTEC 81A, HTEC 80A, HTEC 80, HTEC 82A, and HTEC 82 is required to enroll in HTEC 180, Clinical Hematology/Urinalysis/Coagulation Practicum. This course must be successfully completed in order to qualify for the clinical externship and take the licensing exam.

HTEC 81A Clinical Urinalysis Lecture 1 ½ Units
Co-requisite: HTEC 81A students must also enroll in HTEC 81.
One and one-half hours lecture (18 hours total per quarter).
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. This course must be successfully completed in order to qualify for the clinical externship and take the licensing exam.

HTEC 82 Clinical Coagulation Laboratory 3/4 Unit
Co-requisite: HTEC 82 students must also enroll in HTEC 82A.
Two and one-quarter hours laboratory (27 hours total per quarter).
Introduces the various techniques and safety procedures used in 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 HTEC 80, 80A, 81, 81A and 82A are required to enroll in Clinical Hematology/Urinalysis/Coagulation Practicum (HTEC 180).

HTEC 82A Clinical Coagulation Lecture 1 ½ Units
Co-requisite: HTEC 82A students must also enroll in HTEC 82.
One and one-half hours lecture (18 hours total per quarter).
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 83 Clinical Microbiology Laboratory 1 ½ Units
Co-requisite: HTEC 83 students must also enroll in HTEC 83A.
Four and one-half hours laboratory (54 hours total per quarter).
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 HTEC 83A is required to enroll in Clinical Microbiology Practicum (HTEC 183).

HTEC 83A Clinical Microbiology Lecture 4 ½ Units
Co-requisite: HTEC 83A students must also enroll in HTEC 83.
Four and one-half hours lecture (54 hours total per quarter).
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 HTEC 83 is required to enroll in Clinical Microbiology Practicum (HTEC 183).

HTEC 84 Clinical Immunology/ Immunohematology Laboratory 1 ½ Units
Co-requisite: HTEC 84 students must also enroll in HTEC 84A.
Four and one-half hours laboratory (54 hours total per quarter).
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 HTEC 84A is required prior to enrollment in Clinical Immunology/Immunohematology Practicum, HTEC 184. This course must be successfully completed in order to qualify for the clinical externship and take the licensing exam.

HTEC 84A Clinical Immunology/ Immunohematology Lecture 4 ½ Units
Co-requisite: HTEC 84A students must also enroll in HTEC 84.
Four and one-half hours lecture (54 hours total per quarter).
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. This course must be successfully completed in order to qualify for the clinical externship and take the licensing exam.

HTEC 85A Clinical Chemistry I Laboratory 1 ½ Units
Co-requisite: HTEC 85A students must also enroll in HTEC 85C.
Four and one-half hours laboratory (54 hours total per quarter).
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, HTEC 85B, HTEC 85C and HTEC 85D are required to enroll in Clinical Chemistry Practicum, HTEC 185. This course must be successfully completed in order to qualify for the clinical externship and take the licensing exam.

HTEC 85B Clinical Chemistry II Laboratory 1 ½ Units
Prerequisite: HTEC 85A.
Co-requisite: HTEC 85B students must also enroll in HTEC 85D.
Four and one-half hours laboratory (54 hours total per quarter).
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, HTEC 85B, HTEC 85C and HTEC 85D are required to enroll in Clinical Chemistry Practicum, HTEC 185. This course must be successfully completed in order to qualify for the clinical externship and take the licensing exam.

HTEC 85C Clinical Chemistry I Lecture 4 ½ Units
Co-requisite: HTEC 85C students must also enroll in HTEC 85A.
Four and one-half hours lecture (54 hours total per quarter).
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. This course must be successfully completed in order to qualify for the clinical externship and take the licensing exam.

HTEC 85D Clinical Chemistry II Lecture 4 ½ Units
Prerequisite: HTEC 85C.
Co-requisite: HTEC 85D students must also enroll in HTEC 85B.
Four and one-half hours lecture (54 hours total per quarter).
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. This course must be successfully completed in order to qualify for the clinical externship and take the licensing exam.

HTEC 90G Basic Patient Care 1 ½ Units
Co-requisite: HTEC 90G students must also enroll in HTEC 101B.
Advisory: HTEC 60A.
One hour lecture, two hours laboratory (36 hours total per quarter).
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 ½ Units
Co-requisite: HTEC 90H students must also enroll in HTEC 101E.
Advisory: HTEC 60A and HTEC 90G.
One hour lecture, two hours laboratory (36 hours total per quarter).
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 ½ Units
Co-requisite: HTEC 91 students must also enroll in HTEC 101F.
Advisory: HTEC 60A.
One hour of lecture, two hours laboratory (36 hours total per quarter).
Electrocardiography, theory of assisting with physical therapy and x-ray examinations, theory of diagnostic procedures and instructions.

HTEC 93 Pharmacology for Medical Assistants 3 Units
Advisory: HTEC 60A.
Three hours lecture (36 hours total per quarter).
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 ½ Units
Prerequisite: HTEC 93 (may be taken concurrently).
One hour lecture, two hours laboratory (36 hours total per quarter).
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 10 intramuscular, subcutaneous, and intradermal injections; preparation and administration of oral medication.

HTEC 95A Medical Assisting Externship 3 Units
Prerequisite: ACCT 1A or ACCT 1AH; and BIOL 54G, 54H, 54I, 54J; and HTEC 50, 60A, 60G, 60H, 61, 64A, 64B, 68, 71, 72, 73, 74, 75, 90G, 90H, 91, 93, 94, 96A and 110.
Nine hours laboratory (108 hours total per quarter).
Clinical medical assisting practical experience in medical facilities.

HTEC 95B Phlebotomy Technician I Externship 3 Units
Prerequisite: HLTH 57A and HLTH 57E; and HTEC 50, 60A, 64A, 64B, 73 and 101A.
Nine hours laboratory (108 hours total per quarter).
Phlebotomy Technician I practical experience in medical facilities.

HTEC 96A Medical Assisting Externship 4 Units
Prerequisite: ACCT 1A or ACCT 1AH; and BIOL 54G, 54H, 54I, 54J; and HTEC 50, 60A, 60G, 60H, 61, 64A, 64B, 68, 71, 72, 73, 74, 75, 90G, 90H, 91, 93, 94, 95A and 110.
Twelve hours laboratory (144 hours total per quarter).
Administrative and clinical medical assisting practical experience in medical facilities.

HTEC 96B Medical Secretarial Externship 4 Units
Prerequisite: ACCT 1A or ACCT 1AH; and BIOL 54G, 54H, 54I, 54J; and HTEC 50, 60A, 60G, 60H, 61, 68, 71, 72, 73, 74, 75, 101C, 101D and 101G.
Twelve hours laboratory (144 hours total per quarter).
Medical secretarial practical experience in medical facilities.

HTEC 96C Medical File Clerk Externship 4 Units
Prerequisite: HTEC 50, 60A and 73.
Twelve hours laboratory (144 hours total per quarter).
Medical file clerk practical experience in medical facilities.

HTEC 96D Medical Record Clerk Externship 4 Units
Prerequisite: HTEC 50, 60A, 71 and 73.
Twelve hours laboratory (144 hours total per quarter).
Medical record clerk practical experience in medical facilities.

HTEC 96E Business Office Clerk Externship 4 Units
Prerequisite: HTEC 50, 60A, 72, 73 and 101D.
Twelve hours laboratory (144 hours total per quarter).
Business office clerk practical experience in medical facilities.

HTEC 96F Insurance and Coding Externship 4 Units
Prerequisite: BIOL 54G, 54H, 54I, 54J; and HTEC 50, 60A, 60G, 60H, 61, 72, 73, 101C and 101D.
Twelve hours laboratory (144 hours total per quarter).
Insurance and coding practical experience in medical facilities.

HTEC 96G Medical Transcription Externship 4 Units
Prerequisite: BIOL 54G, 54H, 54I, 54J; HTEC 50, 60A, 60G, 60H, 61, 73 and 74.
Twelve hours laboratory (144 hours total per quarter).
Medical transcription practical experience in medical facilities.

HTEC 96H EKG Externship 4 Units
Prerequisite: HTEC 50, 60A, 60G, 60H, 90G, 64A, 64B, 73, 91, 95B, 101A, 101B and 101F.
Twelve hours laboratory (144 hours total per quarter).
Lab assisting practical experience in medical facilities.

HTEC 101A Skill Building in Clinical Laboratory Procedures II 1 Unit
Prerequisite: HTEC 64B (may be taken concurrently).
Three hours laboratory (36 hours total per quarter).
Pass-No Pass (P-NP) course.
Proper collection and handling of blood specimens while developing speed and accuracy.

HTEC 101B Skill Building in Basic Patient Care 1 Unit
Co-requisite: HTEC 90G.
Three hours laboratory (36 hours total per quarter).
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 medial office.

HTEC 101C Skill Building in Medical Communications 1 Unit
Co-requisite: HTEC 61.
Three hours laboratory (36 hours total per quarter).
Pass-No Pass (P-NP) course.
Development of speed and accuracy in skills learned in medical communications and advanced medical terminology.

HTEC 101D Skill Building in Medical Office Financial Procedures 1 Unit
Co-requisite: HTEC 72.
Three hours laboratory (36 hours total per quarter).
Pass-No Pass (P-NP) course.
Development of speed and accuracy in skills learned in medical office financial procedures course; skills include determining ICD-10 and CPT codes, completing various types of insurance forms.

HTEC 101E Skill Building in Medical Office Sterile Technique 1 Unit
Co-requisite: HTEC 90H.
Three hours laboratory (36 hours total per quarter).
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
Co-requisite: HTEC 91.
Three hours laboratory (36 hours total per quarter).
Pass-No Pass (P-NP) course.
Development of speed and accuracy in skills learned in the medical office diagnostic tests course; skills include performing assessing electrocardiograms.

HTEC 101H Skill Building in Medical Transcription and Editing I 1 Unit
Co-requisite: HTEC 101H students must also enroll in HTEC 74A.
Three hours laboratory (36 hours total per quarter).
Pass-No Pass (P-NP) course.
Development of speed and accuracy in medical transcription skills for a medical facility using actual dictation for Gastroenterology and Orthopedics medical specialties, along with the basic skills for speech recognition editing.

HTEC 101J Skill Building in Medical Transcription and Editing II 1 Unit
Co-requisite: HTEC 101H students must also enroll in HTEC 74B.
Three hours laboratory (36 hours total per quarter).
Pass-No Pass (P-NP) course.
Development of speed and accuracy in medical transcription skills for a medical facility using actual dictation for Obstetrics and Gynecology, Dermatology, and Neurology specialties, along with the basic skills for speech recognition editing.

HTEC 101K Skill Building in Medical Transcription and Editing III **1 Unit**
Co-requisite: HTEC 101H students must also enroll in HTEC 74C.
Three hours laboratory (36 hours total per quarter).
Pass-No Pass (P-NP) course.
Development of speed and accuracy in medical transcription skills for a medical facility using actual dictation for Oncology, Pulmonology, Otorhinolaryngology and Urology specialties, along with the basic skills for speech recognition editing.

HTEC 101L Intermediate Skill Building in Clinical Laboratory Procedures II **1 Unit**
Prerequisite: HTEC 101A and HTEC 64B (may be taken concurrently). Three hours laboratory (36 hours total per quarter).
Pass-No Pass (P-NP) course.
Intermediate collection and handling of blood specimens and increasing speed and accuracy.

HTEC 101M Advanced Skill Building in Clinical Laboratory Procedures II **½ Unit**
Prerequisite: HTEC 101A and HTEC 64B (may be taken concurrently).
One and one-half hours laboratory (18 hours total per quarter).
Pass-No Pass (P-NP) course.
Advanced collection and handling of blood specimens and increasing speed and accuracy.

HTEC 110 Health Technologies Employment Preparation **1 ½ Units**
Advisory: To be taken the quarter before final externship.
One hour lecture, two hours laboratory (36 hours total per quarter).
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**
Prerequisite: HTEC 80, 80A, 81, 81A, 82 and 82A.
Eighteen hours laboratory (216 hours total per quarter).
Provides entry-level clinical laboratory practice/experience in the department of hematology, urinalysis and coagulation. 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 facilitated by the MLT (Medical Laboratory Technician) Program Director. This course must be successfully completed in order to take the national exam and qualify for a California state license.

HTEC 183 Clinical Microbiology Practicum **6 Units**
Prerequisite: HTEC 83 and HTEC 83A.
Eighteen hours laboratory (216 hours total per quarter).
Provides entry-level clinical laboratory practice/experience in the department of microbiology. 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 facilitated by the MLT (Medical Laboratory Technician) Program Director. This course must be successfully completed in order to take the national exam and qualify for a California state license.

HTEC 184 Clinical Immunology/ Immunohematology Practicum **4 ½ Units**
Prerequisite: HTEC 84 and HTEC 84A.
Thirteen and one-half hours laboratory (162 hours total per quarter).
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 facilitated by the MLT (Medical Laboratory Technician) Program Director. This course must be successfully completed in order to take the national exam and qualify for a California license.

HTEC 185 Clinical Chemistry Practicum **6 Units**
Prerequisite: HTEC 85B and HTEC 85D.
Eighteen hours laboratory (216 hours total per quarter).
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 facilitated by the MLT (Medical Laboratory Technician) Program Director. This course must be successfully completed in order to take the national exam and qualify for a California license.

HINDI

HNDI 1 Elementary Hindi (First Quarter) **5 Units**
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Introduction to the language and cultures of the Hindi-speaking countries and communities. 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.

HNDI 2 Elementary Hindi (Second Quarter) **5 Units**
(See general education pages for the requirement this course meets.)
Prerequisite: HNDI 1 (equivalent to one year of high school Hindi) or equivalent.
Five hours lecture (60 hours total per quarter).
Further development of material presented in HNDI 1. Continuation of introduction to the language and culture 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.

HNDI 3 Elementary Hindi (Third Quarter) **5 Units**
(See general education pages for the requirement this course meets.)
Prerequisite: HNDI 2 (equivalent to two years of high school Hindi) or equivalent.
Five hours lecture (60 hours total per quarter).
Further development of material presented in HNDI 1 and HNDI 2. Completion of introduction to the language and culture of the Hindi-speaking states and communities. 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.

HISTORY

HIST 2 Introduction to California Studies **4 Units**
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 from Prehistory to 750 CE **4 Units**
(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 3AH.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Beginning with late prehistoric times and covering to 750 Common Era (CE), 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 3AH World History from Prehistory to 750 CE - HONORS **4 Units**
(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 3A.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Beginning with late prehistoric times and covering to 750 Common Era (CE), 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. As an honors course, the students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into world history between prehistory and 750 CE.

HIST 3B World History from 750 CE to 1750 CE **4 Units**
(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 3BH.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Beginning with 750 Common Era (CE) and covering to 1750 CE, focusing on the convergence of, or increasing encounters 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 3BH World History from 750 CE to 1750 CE - HONORS 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 3B.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Beginning with 750 Common Era (CE) and covering to 1750 CE, focusing on the convergence of, or increasing encounters 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. As an honors course, the students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into world history between 750 CE and 1750 CE.

HIST 3C World History from 1750 CE to the Present 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 3CH.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Beginning with 1750 Common Era (CE) 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 3CH World History from 1750 CE to the Present - HONORS 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 3C.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Beginning with 1750 Common Era (CE) 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. As an honors course, the students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into world history between 1750 CE and the present.

HIST 6A History of Western Civilization 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 6AH.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
The development of Western civilization from the fourth millennium B.C.E to the eighth century CE

HIST 6AH History of Western Civilization - HONORS 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 6A.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
The development of Western civilization from the fourth millennium B.C.E to the eighth century CE As an honors course, the students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into the history of Western civilization from the ancient period through late antiquity (750 CE).

HIST 6B History of Western Civilization 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 6BH.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
The development of Western Civilization from the early Middle Ages to the early Modern Era (1750 CE), which includes late Medieval, the Renaissance, Reformation, and the Enlightenment.

HIST 6BH History of Western Civilization - HONORS 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 6B.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
The development of Western Civilization from the early Middle Ages to the early Modern Era (1750 CE), which includes late Medieval, the Renaissance, Reformation, and the Enlightenment. As an honors course, the students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into the history of Western civilization from the early Middle Ages to the early Modern Era (1750 CE).

HIST 6C History of Western Civilization 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 6CH.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
The development of Western Civilization from the early modern period (1750 CE) to the present, with an emphasis on the French Revolution, industrialization, nationalism, European imperialism, both world wars, environmentalism and the economic growth of Europe during and after the Cold War era.

HIST 6CH History of Western Civilization - HONORS 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 6C.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
The development of Western Civilization from the early modern period (1750 CE) to the present, with an emphasis on the French Revolution, industrialization, nationalism, European imperialism, both world wars, environmentalism and the economic growth of Europe during and after the Cold War era. As an honors course, the students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into the history of Western civilization from the early modern period (1750 CE) to the present.

HIST 7A Colonial Latin American History 4 Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ICS 38A. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ICS 38B. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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.)
(Not open to students with credit in HIST 9H or WMST 9 or WMST 9H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as WMST 9. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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 9H Women in American History - HONORS 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 9 or WMST 9 or WMST 9H.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as WMST 9H. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
A 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. As an honors course, the students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into women's history in America.

HIST 10 History of California 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 10H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 10H History of California - HONORS 4 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 10.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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. As an honors course, the students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into California history.

HIST 16A History of Africa to 1800 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ICS 16A. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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.

HIST 16B History of Africa from 1800 to the Present 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ICS 16B. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
A study of African history in the 19th, 20th, and 21st 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.

HIST 17A History of the United States to Early National Era 4 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 17AH.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 17AH History of the United States to Early National Era - HONORS 4 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 17A.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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. As an honors course, the students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into American history from the colonial period to the early national era.

HIST 17B History of the United States from 1800 to 1900 4 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 17BH.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
U.S. civilization from 1800 to 1900. A survey of United States history (political, economic, intellectual, and social development).

HIST 17BH History of the United States from 1800 to 1900 - HONORS 4 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 17B.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
U.S. civilization from 1800 to 1900. A survey of United States history (political, economic, intellectual, and social development). -- As an honors course, the students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into American history between 1800 and 1900.

HIST 17C History of the United States from 1900 to the Present 4 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 17CH.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
American civilization from 1900 to the present. A survey of United States history (political, economic, intellectual, and social development).

HIST 17CH History of the United States from 1900 to the Present - HONORS 4 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 17C.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
American civilization from 1900 to the present. A survey of United States history (political, economic, intellectual, and social development As an honors course, the students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into American history between 1900 and the present.

HIST 18A African American History to 1865 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ICS 18A. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
An examination of the history of African Americans from their kidnapping from Africa to their enslavement in the Americas until the end of the institution of slavery after the Civil War. The major events in the development of the United States by emphasizing the role of people of African descent in the political, social and economic life of the United States will be analyzed.

HIST 18B African American History Since 1865 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ICS 18B. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
An examination of the history of the African American in the United States since the Civil War. The major events, policies, and people that shaped the history of the United States will be analyzed. This course will help students understand the role of people of African ancestry in the political, social and economic life of the United States from Reconstruction to the Jim Crow era, to the modern Civil Rights Movement to the Black Power Movement until today. How institutions, policies, and laws have historically oppressed people of African ancestry living in the United States will also be examined.

HIST 19A History of Asian Civilization: China and Japan (to the 19th Century) 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as INTL 19A. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
An introductory history exploring the development of Chinese and Japanese civilizations from their origins through the 18th century.

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: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as INTL 19B. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
An introductory history exploring modern China and Japan from the 19th to the 21st centuries.

HIST 28 Social Environmental History 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ICS 28. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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 51X Topics in California Political and Diplomatic History 2 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Two hours lecture (24 hours total per quarter).
Examination of topics relating to California's political and diplomatic history from the time of the early Spanish explorations through the present, looking at Spanish, Mexican or United States rule.

HIST 52X Topics in History of Transportation in California 2 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Two hours lecture (24 hours total per quarter).
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 53X Topics in California Historical Sites and Monuments 2 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Two hours lecture (24 hours total per quarter).
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.

HIST 54X Special Topics: Significant Californians 2 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Two hours lecture (24 hours total per quarter).
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 55A Racial and Ethnic Communities in California's History 2 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Two hours lecture (24 hours total per quarter).
Examination of topics relating to California's racial and ethnic communities throughout its history from the time of the indigenous people until the present day.

HIST 55B California's Agricultural Heritage 2 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Two hours lecture (24 hours total per quarter).
Examines a variety of aspects of the agricultural heritage of California, from animal husbandry introduced by Spanish explorers in the 18th century, to farm labor organizing of the late 20th century,and the proliferation of millions of acres dedicated to viticulture today.

HIST 55C Historical Surveys of California's Environments 2 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Two hours lecture (24 hours total per quarter).
Examination of topics relating to California's environmental challenges throughout its history from the time of the indigenous people until the present day.

HIST 107X Community History 2 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Two hours lecture (24 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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 relevant 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.

HUMA 50 Understanding and Managing Stress 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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, holistic health, and global concerns.

HUMANITIES

HUMI 1 Creative Minds 4 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in HUMI 1H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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. This course builds commitment to civic and moral responsibility for diverse, equitable, healthy and sustainable communities. Students engage themselves as members of larger social fabrics and develop the abilities and motivation to take informed action for change.

HUMI 1H Creative Minds - HONORS 4 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in HUMI 1.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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. This course builds commitment to civic and moral responsibility for diverse, equitable, healthy and sustainable communities. Students engage themselves as members of larger social fabrics and develop the abilities and motivation to take informed action for change. As participants in an honors course, students will be expected to complete additional assignments of greater depth and breadth, or order to gain increased insight into the study of creativity.

HUMI 2 But is it Art? Questions and Criticism 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Explores how stories are told among different ethnic groups within the United States. This course will critically examine 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, knowledge and science fiction films.

HUMI 6 Popular Culture 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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.)
(Not open to students with credit in HUMI 9H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 9H Introduction to Comparative Religion - HONORS **4 Units**

(See general education pages for the requirement this course meets.)
(Not open to students with credit in HUMI 9.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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. As participants in an honors course, students will be expected to complete additional assignments of greater depth and breadth, in order to gain increased insight into the field of Comparative Religion.

HUMI 10 Global Religious Perspectives: Judaism, Christianity and Islam **4 Units**

(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An historically grounded and contemporary focused examination of the religious elements and experiences essential to the formation of the western worldview. Ancient and current perspectives from Africa, the Americas, Asia, Europe, the Middle-East and Oceania will be important, while Judaism, Christianity, and Islam will be the central focus.

HUMI 13 Introduction to Korean Popular Culture **4 Units**

(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as INTL 13. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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 15 Discussion on the Arts **4 Units**

(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
A interdisciplinary and multicultural introduction to the relationships between the arts and human experience. 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 humankind's creativity. Focus will be on enhancing each 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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 18 History as Mystery: A Critique of Western Perspectives in a Global Context **4 Units**

(See general education pages for the requirement this course meets.)
(Not open to students with credit in HUMI 18H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 18H History as Mystery: A Critique of Western Perspectives in a Global Context - HONORS **4 Units**

(See general education pages for the requirement this course meets.)
(Not open to students with credit in HUMI 18.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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. As participants in an honors course, students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into critical theory and the humanities.

HUMI 20 The Greek Achievement **4 Units**

(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 2A Introduction to Peer Mentoring, Leadership, and Community Building **2 Units**

(Formerly ICS 52A.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1AH or EWRT 1AH or ESL 5.
Two hours lecture (24 hours total per quarter).
An introduction to peer mentoring, including a focus on the social and historical context of educational practices, and the role of mentors in improving student success.

ICS 2B Practicum in Peer Mentoring, Leadership, and Community Building **2 Units**

(Formerly ICS 52B.)
(See general education pages for the requirement this course meets.)
Prerequisite: ICS 2A.
Advisory: EWRT 1AH or EWRT 1AH or ESL 5.
Two hours lecture (24 hours total per quarter).
A practicum in peer mentoring, including a focus on interpersonal communication, assessment o student needs, and the implementation of appropriate strategies to improve student success

ICS 4 Race, Ethnicity and Inequality **4 Units**

(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An interdisciplinary examination of major concepts and controversies in the study of racial and ethnic difference in the United States. Exploration of race and ethnicity as historical and contemporary categories of identification in the context of social inequality. Social movements and policy debates on racial equity 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: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ARTS 2F. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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 topics considered important by each ethnicity or group, as well as issues related to racism, gender, social class and contemporary social/political awareness. 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.)
(Not open to students with credit in ICS 7H or COMM 7 or COMM 7H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as COMM 7. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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 7H Intercultural Communication - HONORS 4 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in ICS 7 or COMM 7 or COMM 7H.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as COMM 7H. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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. As an honors course students will be expected to complete additional assignments to gain deeper insight in Intercultural Studies with an emphasis on interdisciplinary connections with Communication Studies.

ICS 9 Race and Ethnicity: Belonging and Exclusion in the U.S. 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An examination of race and ethnicity as systematized practices of social classification used to determine belonging and exclusion of groups in the U.S. Thematic emphasis on citizenship and immigration, with historical and contemporary comparisons. Application of theories, concepts, and frameworks towards analysis of 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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introduction to the field of African American Studies through history, literature, philosophy, the arts, and culture. Additionally, the course will examine the sociological, political, economic, and philosophical perspectives on the experience of people of African ancestry in the United States. The values, experience, and cultural contributions of Black and/or African American individuals in the United States will be identified, examined, and authenticated.

ICS 11 Sankofa: The Roots of the African American Experience 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An interdisciplinary course inspired by Haile Gerima's compelling motion picture, Sankofa. The word "Sankofa" means "it is not taboo to go back and reclaim what what has been lost". This course will build upon this concept of "returning to the source" in order to understand the present state of the African Diaspora. Emphasis will be placed on the historical, and psychocultural understanding of people of African descent throughout the Diaspora.

ICS 12 An Introduction to African American Literature 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 16A History of Africa to 1800 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as HIST 16A. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as HIST 16B. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
A study of African history in the 19th, 20th, and 21st 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.)
(Not open to students with credit in ICS 17H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An exploration of issues 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 consciousness.

ICS 17H Critical Consciousness and Social Change - HONORS 4 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in ICS 17 or PHIL 17 or PHIL 17H.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as PHIL 17H. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
An exploration of issues 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 consciousness. As an honors course the students will be expected to complete extra assignments to gain deeper insight into the subject matter.

ICS 18A African American History to 1865 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as HIST 18A. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
An examination of the history of African Americans from their kidnapping from Africa to their enslavement in the Americas until the end of the institution of slavery after the Civil War. The major events in the development of the United States by emphasizing the role of people of African descent in the political, social and economic life of the United States will be analyzed.

ICS 18B African American History Since 1865 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as HIST 18B. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
An examination of the history of the African American in the United States since the Civil War. The major events, policies, and people that shaped the history of the United States will be analyzed. This course will help students understand the role of people of African ancestry in the political, social and economic life of the United States from Reconstruction to the Jim Crow era, to the modern Civil Rights Movement to the Black Power Movement until today. How institutions, policies, and laws have historically oppressed people of African ancestry living in the United States will also be examined.

ICS 19 Justice, Nature and the Geographies of Identity 4 Units
(Formerly ICS 57.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An exploration of natural, cultural, social, and political transformations through the lens of social and environmental justice. Analyzes contemporary social issues through local examples. Engages students in community-focused problem solving and personal reflection.

ICS 20 Asian American Experiences Past to Present 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introduction to Asian American Studies and an exploration of Asian American experiences from the 19th century. Experiences of Chinese Americans, Vietnamese Americans, Filipino Americans, Indian Americans, Japanese Americans, Korean Americans, as well as other Asian American groups will be examined. Issues such as how Asian Americans respond to social inequity, the challenges of making a living, and the changing perspectives from immigrant to American-born generations will be highlighted.

ICS 21 Introduction to Pacific Islander History and Culture 4 Units

(Formerly ICS 90.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An interdisciplinary introduction to and survey of the Pacific Islander/American in the United States. Emphasis will be placed on history and contemporary issues in Pacific Islander/American communities. An examination of intergroup (e.g. Native Hawaiian, Samoan American, Tongan, Filipina/o American, Native American, Chamorro, Fijian, Maori, Tahitian, Melanesia, Micronesia, Polynesian, etc.) and intra-group challenges within today's ethnic communities.

ICS 22 Contemporary Asian American Communities 4 Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introduction to Asian American Studies and an exploration to the experiences of various Asian cultural groups in America. The commonalities and uniqueness of Chinese Americans, Vietnamese Americans, Filipino Americans, Indian Americans, Japanese Americans, Korean Americans, as well as other Asian American groups will be examined. New perspectives on such issues as historical legacies, stereotypes and profiling, cultural identity, generational change, occupational challenges, community advocacy and empowerment will be gained.

ICS 24 Asian Pacific American Literature 4 Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ELIT 24. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
Introduction to Asian Pacific American literature. Through readings in twentieth and twenty-first century works, students will explore and analyze identity issues related to complexities of identity as it relates to class, gender, mixed heritages, and sexuality; politics and the history of Asian American activism and resistance to cultural marginalization; and diversity of cultures and experiences within the Asian Pacific American community.

ICS 25 Grassroots Democracy: Race, Politics and the American Promise 4 Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as POLI 15. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
Applied and theoretical learning 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, class, and ecology as well as the role of the state (policy) to the process of migration and immigration.

ICS 26 Introduction to Lesbian, Gay, Bisexual, Transgender and Queer Studies 4 Units

(Formerly ICS 96.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An interdisciplinary, multi-perspective, critical analysis and comparative study of the broad range of contemporary lesbian, gay, bisexual, transgender and queer issues in various contexts including biomedical, sociological, political, cultural, economic, racial and sexual. This course will explore the relationship between LGBTQ individuals and the social and political constructs of gender, sexuality, citizenship, and identity as they relate to social and political institutions and national ideologies. The values, experience, and cultural contributions of LGBTQ individuals in the United States will be identified, examined, and authenticated.

ICS 27 Grassroots Democracy: Leadership and Power 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in ICS 27H or POLI 17 or POLI 17H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as POLI 17. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
Applied and theoretical training 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: gender and race sensitive approaches to leadership style, institutional and mass forums for civic engagement, mass recruitment and mobilization, consciousness development, democratic ethics, and strategic and tactical action.

ICS 27H Grassroots Democracy: Leadership and Power - HONORS 4 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in ICS 27 or POLI 17 or POLI 17H.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as POLI 17H. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
Applied and theoretical training 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: gender and race sensitive approaches to leadership style, institutional and mass forums for civic engagement, mass recruitment and mobilization, consciousness development, democratic ethics, and strategic and tactical action. As an honors course the students will be expected to complete extra assignments to gain deeper insight into the issues raised in this class.

ICS 28 Social Environmental History 4 Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as HIST 28. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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

(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ADMJ 29. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
An interdisciplinary study of marginalized peoples and their relationship to the law. Examines the legal perspective on cultural diversity in the United States by examining groups based on 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. Analyzes the effect of law on cultural pluralism and cultural diversity in the United States.

ICS 30 Introduction to Chicano/a and Latino/a Studies 4 Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An exploration of the Chicano/a and Latino/a experience with emphasis on the cultural and historical development, the socioeconomic and political status of their contemporary communities.

ICS 31 Chicano/a Culture 4 Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Survey of the origins and development of Chicano/a culture with emphasis on the religions, philosophies, and lifestyles of the Chicano/a.

ICS 32 Chicano/a and Latino/a History 4 Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
A history of the Chicano/a and Latino/a people, surveying pre-Columbian origins, with emphasis on the period since 1848 in the United States Southwest.

ICS 33 The Chicano/a and Latino/a and the Arts 4 Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Survey and analysis of contemporary Chicano/a and Latino/a art, film, theater, music, and literature, and their relationship to the Chicano and Latino experiences.

ICS 35 Chicano/a, Latino/a Literature 4 Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
A survey of Chicano/a, Latino/a literature in its various forms, with emphasis on contemporary authors, from the 1940s to the present.

ICS 36 Grassroots Democracy: Social Movements Since the 1960s 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as POLI 16. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
Applied and theoretical learning for students of social justice, this course is a comparative survey of protest movements since the 1960s. 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, ecological 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 ecology, gender, race, ethnicity, culture, class, and sexual orientation in contemporary U.S. politics.

ICS 37 Ancient Peoples of Mesoamerica 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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.

ICS 38A Colonial Latin American History 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as HIST 7A. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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 38B Modern Latin American History 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as HIST 7B. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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 41 Native American Contemporary Society 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An exploration of contemporary Native American perspectives about economic, political, legal, and cultural changes impacting tribal cultures in the 20th and 21st centuries with emphasis on issues of identity, the role of the federal government, gaming and self-determination.

ICS 42 California Native Americans 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
History of California Native Americans, including their pre-historic pasts, cultures and histories from their perspectives. Course includes examination of oral traditions, traditions, up to and inclusive of contemporary American Indian issues. Special focus on selected California Native American tribal communities.

ICS 43 Native American History 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
A study of Native American history from an indigenous perspective, from pre-Columbian contact to present. Examines Native American societies with attention to the impact of contact upon indigenous cultures and societies in the United States, focusing on American Indian continuity and change in cultures as a result of historical and contemporary social conditions and the continued relationship with the federal government. Emphasis is placed upon the struggles for legal, political, and cultural sovereignty.

ICS 44 Native American Religious Traditions 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
A study of Native American religious and spiritual beliefs and practices, including an examination of spirit beings, prophesies, and renewals of the Indian way through their land-based religions, symbols, and ceremonies. Tribal religions are reviewed, including focus on traditional beliefs and practices, religious movements, the effect of foreign influences and philosophies, and the continual struggle for religious freedom. Change and continuity of American Indian values and tribalism are examined as reflected through present-day spiritual issues in Indian America.

ICS 45 Survey of Native American Arts 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
A survey of pre-contact, traditional, and contemporary styles and forms of Native American arts, viewed from within the context of tribal culture and tradition. Consideration is given to the influence and impact of introduced methods, techniques, and resources on the production of art and how it led to the development of contemporary Native artistic expression.

ICS 46 Native American Literature 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
A study of oral traditions and historical and contemporary literature written by Native Americans. An understanding and insight from the stories, poetry and plays penned by American Indians will be developed.

ICS 47 Introduction to Disability Studies 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Overview of all major categories and characteristics of disabilities. Physical, sensory, developmental and learning disabilities discussed. Interdisciplinary study of disability rights and justice movements and resulting policies and legislation that form framework of disability laws in the United States. Cultural/experiential aspects of disabilities from the perspectives of disabled individuals explored through readings and guest speakers. Contrasts disabled with non-disabled culture including cross-cultural perspectives of the disabled experience. Emphasis placed on recognition of strengths and abilities to provide strategies for instruction and accommodations.

ICS 55 Civic Leadership for Community Empowerment 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Introduction to intercultural studies through principles of civic leadership. Explores community empowerment as idea and practice in areas of public service, non-profit 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. Analyzes contemporary social issues through local examples in Silicon Valley. Engages students in community-focused problem solving, personal reflection, and interpersonal and organizational leadership development.

ICS 77 Special Projects in Intercultural Studies 1 Unit
ICS 77X 2 Units
ICS 77Y 3 Units
ICS 77Z 4 Units
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Specific reading, writing or study projects within the discipline of Intercultural Studies.

ICS 78 Special Group Projects in Intercultural Studies ½ Unit
ICS 78W 1 Unit
ICS 78X 2 Units
ICS 78Y 3 Units
ICS 78Z 4 Units
Prerequisite: Consent of instructor and division dean.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Special group projects that incorporate the theory and practice of issues within the field of Intercultural Studies.

ICS 80 Community Based Learning in Intercultural Studies - Beginning ½ Unit
ICS 80W 1 Unit
ICS 80X 2 Units
ICS 80Y 3 Units
ICS 80Z 4 Units
Requisite/Advisory: None.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Introductory level practical work with a community, business or civic institution and reflection on that activity.

ICS 81 Community Based Learning in Intercultural Studies - Intermediate ½ Unit
ICS 81W 1 Unit
ICS 81X 2 Units
ICS 81Y 3 Units
ICS 81Z 4 Units
Requisite/Advisory: None.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Intermediate level practical work with a community, business, or civic institution and reflection at an intermediate level on that activity.

ICS 82 Community Based Learning in Intercultural Studies - Advanced ½ Unit
ICS 82W 1 Unit
ICS 82X 2 Units
ICS 82Y 3 Units
ICS 82Z 4 Units
Requisite/Advisory: None.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Advanced level practical work with a community, business, or civic institution and advanced level reflection on that activity.

INTERNATIONAL STUDIES

INTL 5 Global Issues 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introduction to current global issues, with emphasis on events that impact all of our lives. The role of culture and technology in world affairs, the processes of economic development and globalization, the environmental impacts of human activities, and people's experiences of war and peace will be analyzed. Consideration of various points of view on processes of interdependent changes in our lives at global, regional, national, and local levels will be encouraged.

INTL 8 Sociology of Globalization and Social Change 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as SOC 5. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ARTS 2G. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introduction to the humanities through a global perspective on Vietnamese and Vietnamese American literature. Exploration of oral tradition, folk literature, traditional elite literature, modern prose, exile writings by the first immigrant generation to the Vietnamese American expressions focusing on several major themes in literature: war and representations of Southeast Asians, migration experience, impacts of migration. Students develop a 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
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as HUMI 13. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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 19A History of Asian Civilization: China and Japan (to the 19th Century) 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as HIST 19A. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
An introductory history exploring the development of Chinese and Japanese civilizations from their origins through the 18th century.

INTL 19B History of Asian Civilization: China and Japan (19th - 21st Centuries) 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as HIST 19B. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
An introductory history exploring modern China and Japan from the 19th to the 21st centuries.

INTL 21 History of Art: Native Arts of Mesoamerica and the Andes 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ARTS 2H. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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 with emphasis upon the Pre-Columbian past. 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: Arts of Africa, Oceania and Native North America 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ARTS 2J. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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, as well as the impact of colonialism and representations of indigenous arts in museums, 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
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ARTS 2K. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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. The impact of colonialism in the Islamic world and Orientalism in Europe and America are briefly explored.

INTL 24 History of Art: Visual Arts of Africa 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ARTS 2L. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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, as well as the impact of colonialism and the arts in postcolonial Africa. Compares arts from Africa to other world art traditions and assesses the contributions of African arts in a global context.

INTL 33 Introduction to Peace and Conflict Studies 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5
Four hours lecture (48 hours total per quarter).
An introduction to a broad range of issues, concepts, and approaches fundamental to the study of peace and conflict predominantly from the disciplines of political science, sociology, ethnology, psychology, anthropology, religion, economics, and history. Students examine and acquire knowledge and skills related to: the role of domestic and international norms and the underlying political, economic, and social systemic structures that undergird institutions and states; the impact of religious, philosophical, social, and cultural influences; and the processes and sources of both personal and social change as they relate to framing, cultivating, and sustaining peace, culminating in the examination and identification of factors that attend conflict and violence with the intention of applying this understanding toward the prevention, deescalation, and transformation of conflicts.

INTERNET

(See Computer Information Systems, Learning Center and/or Library course listings.)

ITALIAN

ITAL 1 Elementary Italian (First Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Introduction to the language and cultures of the Italian-speaking countries and communities. Basic speaking, listening, reading, and writing skills at the first level of elementary Italian are developed within the framework of language as a fundamental expression of culture. Italian is the primary language of instruction. Language practice and/or assignments, online and/or at home, are an integral part of instruction supporting the development of language skills in the area of pronunciation, structure, and communicative skills.

ITAL 2 Elementary Italian (Second Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: ITAL 1 (equivalent to one year of high school Italian) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Further development of material presented in ITAL 1. Continuation of introduction to the language and cultures of the Italian-speaking countries. Basic speaking, listening, reading, and writing skills at the second level of elementary Italian are developed within the framework of language as a fundamental expression of culture. Italian is the primary language of instruction. Language practice and/or assignments, online and/or at home, are an integral part of instruction supporting the development of language skills in the area of pronunciation, structure, and communicative skills.

ITAL 3 Elementary Italian (Third Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: ITAL 2 (equivalent to two years of high school Italian) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Development of elementary language skills for oral and written communication using language structures and functions targeted for the third level of elementary Italian. Italian is the working language. Focus is on greater structural accuracy and communicative competence within the framework of language as a fundamental aspect of culture. Online language practice and assignments are an integral part of instruction, supporting the development of language skills in the areas of pronunciation, structure, syntax and oral communication.

JAPANESE

JAPN 1 Elementary Japanese (First Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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. Four language skills (listening, speaking, reading and writing) as well as sociocultural knowledge which plays an important role in communicating in the target language will be developed. Japanese will be the major language of instruction. Oral practice based on understanding of the language structure will be also emphasized. Mastering 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: JAPN 1 (equivalent to one year of high school Japanese) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Continuation of introduction to the Japanese language and culture with the further development of materials presented in JAPN 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: JAPN 2 (equivalent to two years of high school Japanese) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Continuation of introduction to the Japanese language and culture with further development of materials presented in JAPN 1 and JAPN 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: JAPN 3 (equivalent to three years of high school Japanese) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
The first-quarter of intermediate Japanese. Introduces the Japanese language and culture with the further development of materials presented in JAPN 3. The emphasis will be on 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: JAPN 4 (equivalent to four years of high school Japanese) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
The second-quarter of intermediate Japanese. Introduces the Japanese language and culture with further development of materials presented in JAPN 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: JAPN 5 or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
The third-quarter of intermediate Japanese. Introduces the Japanese language and culture with further development of materials presented in JAPN 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 sociocultural 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.

JOURNALISM

JOUR 2 Mass Communication and Its Impact On Society 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Three hours lecture (36 hours total per quarter).
Instruction and practice in reporting and the fundamentals of news writing for media, 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: EWRT 1A or EWRT 1AH or ESL 5.
Three hours lecture (36 hours total per quarter).
Fundamentals in feature writing for newspapers, magazines and other media 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.

JOUR 61A Student News Media Production I 3 Units
(Formerly JOUR 61.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Nine hours laboratory (108 hours total per quarter).
Practical experience in creating basic news and feature content as members of the college newspaper, magazine or online media staff.

JOUR 61B Student News Media Production II 3 Units
Prerequisite: JOUR 61A.
Nine hours laboratory (108 hours total per quarter).
Practical experience in creating longer and complex news, feature and visual content as a member of the college newspaper, magazine or online media staff.

JOUR 61C Editorial Leadership for Student News Media 3 Units
Prerequisite: JOUR 61A.
Nine hours laboratory (108 hours total per quarter).
Practical experience in planning, assigning, editing and placing print, video and/or web content as members of the college newspaper, magazine or media staff.

JOUR 62A Freelance Reporting for Student Media 1 Unit
(Formerly JOUR 62.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Three hours laboratory (36 hours total per quarter).
Practical experience contributing as a freelance reporter to the college newspaper and/or digital media as a reporter.

JOUR 62B Freelance Photography for Student Media 1 Unit
Requisite/Advisory: None.
Three hours laboratory (36 hours total per quarter).
Practical experience contributing as a freelance photographer to the college newspaper and/or digital media as a reporter.

JOUR 62C Freelance Video Production for Student Media 1 Unit
Requisite/Advisory: None.
Three hours laboratory (36 hours total per quarter).
Practical experience contributing as a freelance video reporter or producer for the college news media.

JOUR 62D Freelance Digital Production for Student Media 1 Unit
Requisite/Advisory: None.
Three hours laboratory (36 hours total per quarter).
Practical experience contributing as a freelance digital content producer to the college news media.

JOUR 62E Freelance Graphic Production for Student Media 1 Unit
Requisite/Advisory: None.
Three hours laboratory (36 hours total per quarter).
Practical experience contributing as a graphic news producer to the college newspaper and/or digital media as a reporter.

JOUR 62F Freelance Copy Editing for Student Media 1 Unit
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Three hours laboratory (36 hours total per quarter).
Practical experience contributing as a copy editor for the college newspaper and/or digital media.

JOUR 77W Special Projects in Journalism 1 Unit
JOUR 77X 2 Units
JOUR 77Y 3 Units
JOUR 77Z 4 Units
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
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
Requisite/Advisory: None.
One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).
Intensive study and analysis of a special topic in Journalism. Subjects vary.
(Complexity of topic determines number of units assigned.)

JOUR 80 Introduction to Public Relations 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Explores the principles, history, development and and current professional practice of public relations. Covers concepts of planning and executing effective communication strategies, including message design and distribution, for any organization. Applicable journalistic writing styles are covered.

KINESIOLOGY

(See Physical Education for all intercollegiate athletics related courses. See Massage Therapy (MASG) for courses formerly listed in the Physical Education Department.)

KNES 1A Novice Swimming ½ Unit
(Formerly P E 26A.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory (24 hours total per quarter).
(This course is included in the Aquatics Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to Physical Education through novice swimming. Skills and techniques for the non-swimmer will be covered. Global and historical development of swimming as a fitness activity, novice stroke skills, survival methods, overcoming fear of water, and safety will be included. 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.

KNES 1B Beginning Swimming ½ Unit
(Formerly P E 26B.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 1A or pass swimming placement test which consists of swimming 25 yards in deep water.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory (24 hours total per quarter).
(This course is included in the Aquatics Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to Physical Education through the development of skills and techniques for the beginning swimmer. Global and historical development of swimming as a fitness and competitive activity will be discussed. 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.

KNES 1C Intermediate Swimming ½ Unit
KNES 1CX 1 Unit
(Formerly P E 26C and P E 26CX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 1B or equivalent swimming skills.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Aquatics Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction into Physical Education through skills and techniques for the intermediate swimmer. Global and historical development of swimming as a fitness and competitive activity will be discussed. Intermediate stroke skills, spring board diving, turns, and water safety will be covered. The student will be expected to swim

greater lengths with increased motor skills. 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.

KNES 1D Advanced Swimming ½ Unit
KNES 1DX 1 Unit
(Formerly P E 26D and P E 26DX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 1C or KNES 1CX, or equivalent swimming skills.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Aquatics Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to Physical Education through skills and techniques for the advanced swimmer. Global and historical development of swimming as a fitness and competitive activity will be discussed. Advanced stroke skills, endurance swimming, racing turns and starts, and spring board diving will be covered. The student will perform skills at a greater speed and distance at an advanced motor skill level. 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.

KNES 2A Aerobic Swimming ½ Unit
KNES 2AX 1 Unit
(Formerly P E 6G and P E 6GX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 1C or KNES 1CX, or permission of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Aquatics Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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. Students will review training methods, measurements, safety, individual program design, exercise physiology, nutrition appropriate to swimming, intermediate strokes and turns.

KNES 2B Deep Water Running ½ Unit
KNES 2BX 1 Unit
(Formerly P E 6F and P E 6FX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite:KNES 1C or KNES 1CX.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Aquatics Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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 and equipment.

KNES 5A Indoor Cycling ½ Unit
KNES 5AX 1 Unit
(Formerly P E 3 and P E 3X respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Cardiovascular Fitness Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of Physical Education through indoor cycling. 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. 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.

KNES 5B High Intensity Indoor Cycling ½ Unit
KNES 5BX 1 Unit
(Formerly P E 3B and P E 3BX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Cardiovascular Fitness Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of Physical Education through indoor cycling. Includes an historical examination of indoor cycling/spinning. The cycling program is an individual paced, competitive group-training program designed to develop cardiovascular fitness at higher intensity levels. Using interval training students will improve aerobic and anaerobic energy systems. Utilizing a variety of equipment student will develop core endurance and strength Students will be able to assess and design a personal workout program for an indoor cycle.

KNES 5C Outdoor Cycling 1 Unit
KNES 5CX 1 ½ Units
(Formerly P E 3AX and P E 3AY respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory for the one unit course (36 hours total per quarter); four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter).
(This course is included in the Cardiovascular Fitness Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to physical education through outdoor cycling for fitness. An historical aspect of the sport will be discussed. Students will be engaged in Bay Area bike rides 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.

KNES 6A Aerobic Power Walking ½ Unit
KNES 6AX 1 Unit
(Formerly P E 6H and P E 6HX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Cardiovascular Fitness Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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 various distances, routes and at variable speeds. The importance of strength development, and flexibility exercises, adaptations of the exercises to individual physical abilities and principles of fitness and nutrition will be discussed.

KNES 7A Step Aerobics ½ Unit
KNES 7AX 1 Unit
(Formerly P E 6S and P E 6SX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Cardiovascular Fitness Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of Physical Education through cardiovascular/aerobic exercise utilizing a step system to promote cardiorespiratory endurance through a variety of movements. 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 will be discussed. Students will review and apply basic exercise physiology, nutrition and wellness concepts related to cardiovascular exercise, strength development and flexibility relative to age, gender, or physical limitations.

KNES 7D Latin Infused Aerobics ½ Unit
KNES 7DX 1 Unit
(Formerly P E 6Z and P E 6ZX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Cardiovascular Fitness Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to Physical Education through the study of Latin Infused Aerobic exercise. Includes an historical examination of the Latin influence on exercise. A fusion of Latin and international movement and aerobic moves is the focus of this course. Routines will feature aerobic and fitness interval training with a combination of fast and slow rhythms that tone and sculpt the body. Basic exercise physiology, nutrition, flexibility, strength, and mental concepts to improve one's physical condition, including variables which occur due to age, gender, and physical conditions will be covered.

KNES 7G Aerobic Exercise Hi-Low Impact ½ Unit
KNES 7GX 1 Unit
(Formerly P E 6R and P E 6RX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Cardiovascular Fitness Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)

An introduction to the discipline of Physical Education using hi-lo aerobic exercise to promote cardiorespiratory endurance through a variety of movements. Students will learn fundamental patterns and routines with popular music accompaniment. Global and historical review of aerobic exercise trends for men, women and athletes will be discussed. Students will review and apply basic exercise physiology, nutrition and wellness concepts related to cardiovascular exercise, strength development and flexibility depending on age, gender, and physical limitations.

KNES 7H Aerobic Exercise Low Impact ½ Unit
(Formerly P E 6Q.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory (24 hours total per quarter).
(This course is included in the Cardiovascular Fitness Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of Physical Education through aerobic exercise utilizing lo impact techniques. Students will learn fundamental patterns and routines to popular music accompaniment. A global and historical review of the evolution of aerobic exercise, exercise trends for men, and women will be covered. Students will review and apply basic exercise physiology, nutrition and wellness concepts related to cardiovascular exercise relative to age, gender, or physical limitations.

KNES 11A Cardio Kick ½ Unit
KNES 11AX 1 Unit
(Formerly P E 6K and P E 6KX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Combatives Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of Kinesiology 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 element of mind/body, readiness, visualization, and reaction. 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.

KNES 12A Aikido ½ Unit
KNES 12AX 1 Unit
(Formerly P E 2K and P E 2KX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Combatives Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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. Basic exercise physiology, nutrition, strength development, flexibility and meditation techniques as related to Aikido and health will be incorporated.

KNES 12B Intermediate Aikido ½ Unit
KNES 12BX 1 Unit
(Formerly P E 2L and P E 2LX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 12A or KNES 12AX, or technical proficiency suitable to the course level.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Combatives Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Further examination of the discipline of Physical Education through the study of Martial Arts in the form of Aikido. Students will practice Intermediate Aikido techniques for the mind during stressful situations, as well as attacks by one or more persons. This course will provide the student with greater awareness for the development of instinct, and mental strategies. Exercise physiology, nutrition, strength development, flexibility and meditation techniques as related to Aikido and health will be discussed.

KNES 12D Beginning Karate ½ Unit
KNES 12DX 1 Unit
(Formerly P E 2A and P E 2AX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Combatives Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 12E Intermediate Karate ½ Unit
KNES 12EX 1 Unit
(Formerly P E 2B and P E 2BX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 12D or KNES 12DX, or approval of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Combatives Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 12G Self-Defense ½ Unit
(Formerly P E 3G.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory (24 hours total per quarter).
(This course is included in the Combatives Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of Kinesiology, 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 ability to react to various situations. Recognition of potential problems, attack prevention/avoidance, escape strategies, counterattack, kidnapping, and sexual violence will be discussed. Basic exercise physiology, nutrition, fundamentals of strength development, and flexibility.

KNES 12H Tai Chi ½ Unit
KNES 12HX 1 Unit
(Formerly P E 2Q and P E 2QX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Combatives Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 12J Intermediate Tai Chi ½ Unit
KNES 12JX 1 Unit
(Formerly P E 2R and P E 2RX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 12H or KNES 12HX, or comparable level, or permission of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Combatives Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 15A Cross Training ½ Unit
KNES 15AX 1 Unit
(Formerly P E 6B and P E 6BX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Cross Training Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 15C Total Fitness ½ Unit
KNES 15CX 1 Unit
(Formerly P E 8 and P E 8X respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Cross Training Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 15E Cardiovascular and Strength Training ½ Unit
KNES 15EX 1 Unit
KNES 15EY 1 ½ Units
(Formerly P E 9, 9X and 9Y respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter); four and one-half hours laboratory for the one and one-half units course (54 hours total per quarter).
(This course is included in the Cross Training Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 16A Fit Camp ½ Unit
KNES 16AX 1 Unit
KNES 16AY 1 ½ Units
(Formerly P E 6U, 6UX and 6UY respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter); four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter).
(This course is included in the Cross Training Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 16B Spin/Swim Fitness 1 Unit
KNES 16BX 1 ½ Units
(Formerly P E 5AX and P E 5AY respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory for the one unit course (36 hours total per quarter); four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter).
(This course is included in the Cross Training Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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 noncompetitive 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.

KNES 19A Strength Development ½ Unit
KNES 19AX 1 Unit
(Formerly P E 4 and P E 4X respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Strength Development Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of Kinesiology through strength training. Includes etiquette, safety and techniques of strength development, with a brief historical examination of how strength training has changed due to the influence of individuals, and their style of lifting. The development of skill 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.

KNES 19D Training for Muscular Endurance ½ Unit
KNES 19DX 1 Unit
(Formerly P E 4Y and P E 4YX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Strength Development Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to Physical Education through the training for muscular endurance. Includes safety, etiquette, and techniques for developing muscular endurance through resistance and weight training. Global and historical view of muscular endurance training and the role in total fitness will be examined. Basic exercise physiology, nutrition, flexibility, strength and mental concepts to improve one's physical condition, including variables which occur due to age, gender, and physical conditions will be covered.

KNES 19E Body Sculpting ½ Unit
KNES 19EX 1 Unit
(Formerly P E 6D and P E 6DX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Strength Development Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 19G Core Conditioning ½ Unit
KNES 19GX 1 Unit
(Formerly P E 6V and P E 6VX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Strength Development Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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. Mat work emphasizing breathing techniques, posture, and muscle awareness will be utilized.

KNES 22A Hatha Yoga ½ Unit
KNES 22AX 1 Unit
(Formerly P E 2Y and P E 2YX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Physical Meditation Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 22B Yoga for Relaxation ½ Unit
KNES 22BX 1 Unit
(Formerly P E 2G and P E 2GX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Physical Meditation Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of Physical Education through the study of yoga for relaxation. Includes a global and historical examination and key philosophical concepts of the yoga tradition. Students will practice yoga techniques to relax the mind and the body. Includes breath awareness and stress reduction techniques. Basic exercise physiology, nutrition, strength development, and flexibility will be covered.

KNES 22C Power Yoga ½ Unit
KNES 22CX 1 Unit
(Formerly P E 2D and 2DX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Physical Meditation Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to physical education through the study of power yoga. The course includes a historical examination and and key philosophical concepts of the yoga tradition, and the evolution of yoga throughout the ages will be covered. Students will practice power yoga poses for muscular development and flexibility, along with, being mindful while using breathing techniques. Basic exercise physiology, nutrition, flexibility, strength, and mental concepts to improve one's physical condition, including, variables which occur due to age, gender, and physical conditions will be covered.

KNES 22D Flow Yoga ½ Unit
KNES 22DX 1 Unit
(Formerly P E 2E and P E 2EX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Physical Meditation Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Introduction to physical education through flow yoga. Includes an historical examination and key philosophical concepts of the yoga tradition, as well as the evolution of yoga throughout the ages. Designed to introduce students to the flow element of yoga which emphasizes a mind-body connection from pose to pose, breathing techniques, flexibility and relaxation. Basic exercise physiology, nutrition, flexibility, strength, and mental concepts to improve one's physical condition, including variables which occur due to age, gender, and physical conditions will be covered.

KNES 22E Yoga/Pilates Combo ½ Unit
KNES 22EX 1 Unit
(Formerly P E 2F and P E 2FX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Physical Meditation Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of physical education through the study of the mind-body connection. Includes a global and historical perspective of mind-body exercise including Yoga and Pilates. Students will practice breathing techniques and examine different ways to center and focus the mind and body using both mat Pilates and Yogic asanas. Basic exercise physiology, nutrition, strength development, and flexibility will be covered.

KNES 25A Stretching ½ Unit
KNES 25AX 1 Unit
(Formerly P E 11 and P E 11X respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Flexibility and Stability Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of Kineseology through stretching. Techniques for improving flexibility including passive and active stretches, partner stretches, and stretches using stability balls and yoga straps will be included. Emphasis will be placed upon flexibility, balance, spatial awareness and safety during stretching. Technique modifications to account for physical limitations will be emphasized. A brief examination of the evolution of the various forms of stretching reflecting cultural, gender, and age differences, exercise physiology,nutrition and wellness concepts related to total fitness, disabilities and/or genetics will be covered.

KNES 25B Active Isolated Stretching ½ Unit
KNES 25BX 1 Unit
(Formerly P E 11C and P E 11CX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Flexibility and Stability Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of Physical Education through active isolated stretching (AIS). Techniques for improving flexibility using dynamic facilitated stretching of major muscle groups. Technique modifications to account for physical limitations will be emphasized. A brief examination of the evolution of the various forms of stretching including active isolated stretching techniques will be included. With an emphasis upon exercise physiology, neurological reflexes, hydration, muscular strength and endurance, wellness concepts related to total fitness, age, gender, disabilities and/or genetics will be covered.

KNES 26A Basic Pilates Mat Exercise ½ Unit
KNES 26AX 1 Unit
(Formerly P E 2P and P E 2PX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Flexibility and Stability Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to physical education through the study of Pilates. Includes a global and historical perspective, key philosophical concepts, and the six principles of Pilates exercise. Students will practice basic Pilates mat techniques to improve the mind, core strength and flexibility. Includes basic exercise physiology concepts, and nutrition.

KNES 26B Integrated Pilates Mat Exercise ½ Unit
KNES 26BX 1 Unit
(Formerly P E 2T and P E 2TX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 26A or KNES 26AX, or approval of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Flexibility and Stability Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to Physical Education through integrated Pilates mat exercise. A variety of equipment will be used to develop core strength and flexibility in this course. Intermediate to advanced Pilates exercises will be practiced to increase and develop muscle mass, discipline of the mind, and rhythmic breathing techniques. Includes exercise physiology concepts, and nutrition.

KNES 29A Fencing Level 1 ½ Unit
(Formerly P E 14A.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory (24 hours total per quarter).
(This course is included in the Individual Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to Physical Education through the sport of fencing. Level 1 of fencing will teach the student fundamental techniques/skills utilizing the French foil. The rules and regulations governing fencing will be covered. Exercise physiology, 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 will be included.

KNES 29B Fencing Level 2 ½ Unit
(Formerly P E 14B.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 29A or comparable course.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory (24 hours total per quarter).
(This course is included in the Individual Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 30A Beginning Golf ½ Unit
(Formerly P E 16A.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory (24 hours total per quarter).
(This course is included in the Individual Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 30B Advanced Beginning Golf ½ Unit
KNES 30BX 1 Unit
(Formerly P E 16D and P E 16DX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 30A or permission of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Individual Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of Physical Education through the sport of golf at the advanced beginning level. Includes a global and historical examination of the sport, rules, equipment, facilities, etiquette, and safety. The skills portion of the course will focus on mid irons (5, 6 and 7, 8, 9, and putter) and will include approach shots to the green including 3/4 swing, 1/2 swing, and various other chipping shots. The student will also be required to complete practice sessions at a local driving range.

KNES 30C Intermediate Golf ½ Unit
(Formerly P E 16B.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 30B or KNES 30BX, or instructor permission.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory (24 hours total per quarter).
(This course is included in the Individual Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of Physical Education through the sport of golf. 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. An understanding of mental strategies as they apply to playing a round game will be addressed. 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.

KNES 31A Beginning Badminton ½ Unit
KNES 31AX 1 Unit
(Formerly P E 13A and P E 13AX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Individual Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 31B Intermediate Badminton ½ Unit
KNES 31BX 1 Unit
(Formerly P E 13B and P E 13BX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 31A or KNES 31AX, or permission of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Individual Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 31C Advanced Badminton ½ Unit
KNES 31CX 1 Unit
(Formerly P E 13C and P E 13CX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 31B or KNES 31BX, or consent of the instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Individual Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 32A Beginning Tennis ½ Unit
KNES 32AX 1 Unit
(Formerly P E 21A and P E 21AX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Individual Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of Physical Education through the sport of tennis. Basic ground-strokes, serve and footwork as well as basic singles' and doubles' 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.

KNES 32B Advanced Beginning Tennis ½ Unit
KNES 32BX 1 Unit
(Formerly P E 21B and P E 21BX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 32A or KNES 32AX, or equivalent skills.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Individual Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 32C Intermediate Tennis ½ Unit
KNES 32CX 1 Unit
(Formerly P E 21C and P E 21CX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 32B or KNES 32BX, or equivalent skills.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Individual Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 32D Advanced Tennis ½ Unit
KNES 32DX 1 Unit
(Formerly P E 21D and P E 21DX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 32C or KNES 32CX, or equivalent skills based on instructors evaluation.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Individual Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)

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.

KNES 33A Multi-Sport Fitness ½ Unit
KNES 33AX 1 Unit
KNES 33AY 1 ½ Units
(Formerly P E 10, 10X and 10Y respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter); four and one-half hours laboratory for the one and one-half units course (54 hours total per quarter).
(This course is included in the Individual Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 36A Team Sport - Basketball ½ Unit
KNES 36AX 1 Unit
(Formerly P E 1H and P E 1HX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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 informal basketball (streetball) 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.

KNES 37A Soccer ½ Unit
KNES 37AX 1 Unit
(Formerly P E 33A and P E 33AX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 37B Soccer Level 2 ½ Unit
KNES 37BX 1 Unit
(Formerly P E 33D and P E 33DX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 37A or KNES 37AX, or equivalent skills.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of physical education through 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. Technical skills and small group strategies and tactics will be introduced and performed. There will be a discussion introducing additional 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.

KNES 37C Soccer Level 3 ½ Unit
KNES 37CX 1 Unit
(Formerly P E 33E and P E 33EX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 37B or KNES 37BX, or equivalent skills.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of physical education through 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. Team offensive and defensive skills, strategies and tactics will be introduced and performed. There will be a discussion on additional 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.

KNES 37D Soccer Level 4 ½ Unit
KNES 37DX 1 Unit
(Formerly P E 33F and P E 33FX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 37C or KNES 37CX, or equivalent skills.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of physical education through 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. Tactical skills and comprehensive team strategies will be practiced and performed. There will be a discussion introducing additional 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.

KNES 37E Indoor Soccer ½ Unit
(Formerly P E 33I.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory (24 hours total per quarter).
(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of Physical Education through the sport of indoor soccer. Includes 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, 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.

KNES 38A Futsal Level 1 ½ Unit
KNES 38AX 1 Unit
(Formerly P E 33J and P E 33JX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of Physical Education through futsal (basic beginner level). Introductory skills at the beginning level will be learned for this game played indoors on a basketball court. The course will include a global perspective of futsal and a historical review of the sport. Emphasis will be placed upon the four major pillars of the game: with a basic understanding of the sport and the ability to be able to perform basic moves of elementary futsal. An introduction to the laws of the game pertaining to individual and pairs play, proper equipment, fair play, flexibility, and nutrition will be discussed.

KNES 38B Futsal Level 2 ½ Unit
KNES 38BX 1 Unit
(Formerly P E 33K and P E 33KX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 38A or KNES 38AX, or equivalent skills.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
A further introduction to Physical Education through the sport of futsal (advanced beginner level). Focus will be on the advancement in futsal skills, including technical ability, and tactical understanding for this game played indoors on a basketball court. Included is a global perspective of futsal and a historical review of the sport. Advanced beginner level skills and small group (partners) strategies and tactics will be performed. An introduction to the laws of the game pertaining to free kicks, kick-ins, goal kicks and corner kicks will be discussed.

KNES 38C Futsal Level 3 ½ Unit
KNES 38CX 1 Unit
(Formerly P E 33L and P E 33LX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 38B or KNES 38BX, or equivalent skills.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to Physical Education through futsal (intermediate level). Includes a global perspective of futsal and a historical review of the sport. Emphasis will be placed upon the technical ability at level 3. Tactical techniques, increased fitness and the mental approach necessary to compete in match play will be emphasized. Full side strategies and tactics will be discussed and performed. Nutrition, muscular endurance, stretching and nutrition will be highlighted.

KNES 38D Futsal Level 4 ½ Unit
KNES 38DX 1 Unit
(Formerly P E 33M and P E 33MX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 38C or KNES 38CX, or equivalent skill.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
More enhanced skills used in the game of futsal is the focus of this course and is taught at the competitive for the more advanced student. Technical ability, tactical understanding, physical fitness, and the mental approach necessary to compete successfully in match play will be emphasized. Competitive skills and full team strategies and tactics will be discussed and performed. There will be a discussion introducing additional laws of the game, the role of referee, match fitness, nutrition and nuances of the game.

KNES 39A Volleyball Level 1 ½ Unit
KNES 39AX 1 Unit
(Formerly P E 19A and P E 19AX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 39B Volleyball Level 2 ½ Unit
KNES 39BX 1 Unit
(Formerly P E 19B and P E 19BX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 39A or KNES 39AX, or consent of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 39C Volleyball Level 3 ½ Unit
KNES 39CX 1 Unit
(Formerly P E 19C and P E 19CX respectively.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 39B or KNES 39BX, or consent of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 39DX Volleyball Level 4 1 Unit
(Formerly P E 19T.)
(See general education pages for the requirement this course meets.)
Prerequisite: KNES 39C or KNES 39CX, or consent of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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.

KNES 42A Motor Skills Assessment and Development ½ Unit
KNES 42AX 1 Unit
(Formerly P E 7A and P E 7AX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Kinesiology Motor Development Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of Physical Education through human motor development. Humans function in a variety of arenas including the physical, cognitive, social and psychosocial. The physical arena will be the main focus of this modular course. Motor development refers to the changes that occur in our ability to ambulate as we proceed through the lifespan.

KNES 42B Motor Development Training Methodologies ½ Unit
KNES 42BX 1 Unit
(Formerly P E 7B and P E 7BX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Kinesiology Motor Development Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of Physical Education through the practice of human motor development using the application of physical training methodologies. The focus of this course will examine basic tenets of anaerobic training including the overload principle, training intensity and periodization. Includes exercise physiology concepts, nutrition, strength development, flexibility, and the FITT principle.

KNES 42C High Intensity Motor Training ½ Unit
KNES 42CX 1 Unit
(Formerly P E 7C and P E 7CX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Kinesiology Motor Development Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)

An introduction to the discipline of Physical Education through human motor development. Emphasis will be placed upon heart rate based Interval training. Peak and reserve rates will provide a backdrop for elevated motor training. Improved health and fitness will be the main focus for students whether novice or elite. Interaction will occur in a collaborative setting.

KNES 42D Aquatic Motor Development ½ Unit
KNES 42DX 1 Unit
(Formerly P E 7D and P E 7DX respectively.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).
(This course is included in the Kinesiology Motor Development Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to the discipline of Physical Education through human motor development. The aquatic arena will be used as the domain of exercise. Competitive swim training, Water Polo, water gait training, interval swimming, long and short course swimming will be introduced.

KNES 45 Introduction to Kinesiology 4 Units
(Formerly P E 30.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
An introduction to the discipline of physical education/kinesiology. The student will study career options, required preparation and training for occupations in teaching, coaching, physical therapy, sports nutrition, sports medicine and other professions stemming from a degree in physical education/kinesiology. Includes an in-depth overview of human movement and performance, foundations and principles of physical education/kinesiology, and the importance of the sub-disciplines in kinesiology. Focus will also be placed on and give the student an understanding of cultural, age and gender differences. Title IX requirements relating to the profession will also be discussed.

KNES 46 Care and Prevention of Athletic Injuries 4 Units
(Formerly P E 35.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; P E 54 (or BIOL 40A and BIOL 40B).
Three hours lecture, three hours laboratory (72 hours total per quarter).
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.

KNES 50A Orientation to Lifetime Fitness 2 Units
(Formerly P E 70A.)
(See general education pages for the requirement this course meets.)
Co-requisite: KNES 50A students must also enroll in KNES 50AL.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture (24 hours total per quarter).
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.

KNES 50AL Lifetime Wellness and Fitness Center Laboratory 1 Unit
(Formerly P E 71.)
(See general education pages for the requirement this course meets.)
Prerequisite: HLTH 51, KNES 50A or KNES 53 (all courses may be taken concurrently).
Three hours laboratory (36 hours total per quarter).
A laboratory designed to improve student's cardio-respiratory fitness, muscular strength and endurance, flexibility and body composition. Strength and muscular endurance will be developed using Magnum weight equipment. Cardio-respiratory programs will be run on treadmills, cycles, stair steppers, and elliptical trainers.

KNES 51A Exercise and Weight Management 2 Units
(Formerly P E 79.)
(See general education pages for the requirement this course meets.)
Co-requisite: KNES 51AL.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture (24 hours total per quarter).
An examination of the effect of exercise, basal metabolic rate and total daily energy expenditure on weight management. The role of cardiovascular exercise, resistance training, body composition and nutrition on an individual's metabolic rate is assessed. Lifestyle factors and choices, managing stress and motivational strategies for maintaining a healthy body weight is discussed. Students will develop a personal exercise program, assess cardiovascular fitness, muscular strength and endurance, and body composition to improve metabolic rate.

KNES 51AL Exercise and Weight Management Laboratory 1 Unit
(Formerly P E 79A.)
(See general education pages for the requirement this course meets.)
Co-requisite: KNES 51A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
A laboratory designed for students to utilize exercise as a weight management technique for both weight loss, weight gain, or healthy weight maintenance. Cardio-respiratory fitness and muscular strength and endurance techniques will be emphasized. Exercise programs will focus on improving body composition based on weight management techniques.

KNES 52 Physical Stress Management 2 Units
(Formerly P E 53.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture (24 hours total per quarter).
An introduction to the discipline of 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.
(This course is offered in online and face-to-face environments. Massage Therapy students must take this course in the face-to-face environment. Massage students will not be allowed to repeat this course to obtain a Massage Therapy Program Certificate unless the course was taken more than eight years previously.)

KNES 53 Health and Fitness 4 Units
(Formerly P E 51.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Introduction to the disciplines of Physical Education and Health through fitness, wellness and lifestyle management. Concepts of wellness from an interdisciplinary and multicultural perspective. Practices and beliefs that contribute to fitness and healthful living. Exploration of past and current theories of health and fitness with emphasis on the roles of genetics, gender, and age. Students will assess their own cardiovascular capacity, muscular strength and endurance, flexibility, body composition, in and out of class.

KNES 54 Introduction to Sport in Society 4 Units
(Formerly P E 72.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
A course designed for kinesiology, and physical education majors. It looks at current and past sports related cultural and historical issues. Students will be introduced to various topics such as race and gender issues, sports for different populations, and how sports has shaped the American past time. The various levels of participation will be discussed from elementary school and recreational participation, to professional sports.

KNES 55 Exercise Science 2 Units
(Formerly P E 85.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; BIOL 10, 10H, 11 or equivalent.
Two hours lecture (24 hours total per quarter).
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.

KNES 56 Fitness Assessment for Personal Trainers 3 Units
(Formerly P E 85S.)
Prerequisite: KNES 50A and KNES 50AL, or KNES 55.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 210 or equivalent.
Two and one-half hours lecture, one and one-half hours laboratory (48 hours total per quarter).
Basic concepts of fitness assessment for personal trainers. An overview of basic exercise science. 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.

KNES 57A Coaching I: The Foundations of Coaching 2 Units
(Formerly P E 88A.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture (24 hours total per quarter).
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.

KNES 57B Coaching II: The Fundamentals of Fundraising and Budgeting 2 Units

(Formerly P E 88B.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture (24 hours total per quarter).
Introduction and study of the fundamental strategies and techniques relating to alternative funding, i.e. fundraising for school athletic programs or extra curricular activities. An in-depth analysis of successful fundraising 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 fundraising 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 fundraising activities. A mandatory review on non-profit organizational structure and accountability.

KNES 77 Special Projects in Physical Education ½ Unit
KNES 77X 1 Unit
KNES 77Y 1 ½ Units

(Formerly P E 77, 77X and 77Y respectively.)
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Individual research in Physical Education. Specific projects determined in 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.

KOREAN

KORE 1 Elementary Korean (First Quarter) 5 Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Introduction to the historical and cultural background of the Korean language. Intensive reading and writing practice of the Korean alphabet, Hangul. Development of language skills orally and in writing for basic and simple information relating to high-frequency situations in familiar contexts, to further understand grammatical and syntactical structures.

KORE 2 Elementary Korean (Second Quarter) 5 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in KORE 2H.)
Prerequisite: KORE 1 (equivalent to one year of high school Korean) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Further development of materials presented in KORE 1. Intensive oral practice broadening the language functions covered in KORE 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 for an extended range of basic/simple information relating to high-frequency situations.

KORE 2H Elementary Korean (Second Quarter) - HONORS 5 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in KORE 2.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Prerequisite: KORE 1 (equivalent to one year of high school Korean) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Further development of materials presented in KORE 1. Intensive oral practice broadening the language functions covered in KORE 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 for an extended range of basic/simple information relating to high-frequency situations. As an honors course the students will be expected to complete extra assignments to gain deeper insight in the Korean language and culture.

KORE 3 Elementary Korean (Third Quarter) 5 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in KORE 3H.)
Prerequisite: KORE 2 or KORE 2H (equivalent to two years of high school Korean) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Further development of materials presented in KORE 1 and KORE 2 (or KORE 2H). High beginning level language skills for oral and written communication in targeted language functions, with focus on greater structural accuracy and communicative competence for a more complex/abstract range of information relating to high frequency situations. Better understanding of the Korean culture through text and out-of-text authentic materials.

KORE 3H Elementary Korean (Third Quarter) - HONORS 5 Units

(See general education pages for the requirement this course meets.)
(Not open to students with credit in KORE 3.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Prerequisite: KORE 2 or KORE 2H (equivalent to two years of high school Korean) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Further development of materials presented in KORE 1 and KORE 2 (or KORE 2H). High beginning level language skills for oral and written communication in targeted language functions, with focus on greater structural accuracy and communicative competence for a more complex/abstract range of information relating to high frequency situations. Better understanding of the Korean culture through text and out-of-text authentic materials. As an honors course, the students will be expected to complete extra assignments to gain deeper insight in the Korean language and culture.

LANGUAGE ARTS

LART 78 Topics in Language Arts - FYE and Sankofa 1 Unit
LART 78X 2 Units

Co-requisite: LART 78 and 78X students must also enroll in EWRT 1A or EWRT 1AH; or EWRT 211 and READ 211 (or LART 211); or EWRT 200 and READ 200 (or LART 200).
One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).
Uses reading and writing to link students' lived experiences with the social, cultural, historical, political, scientific and/or artistic subject matter that complements the interdisciplinary curriculum in the FYE and Sankofa Scholars programs. Topics will change with each cohort group.

LART 79 Writing and Researching Social Movements 1 Unit

Co-requisite: SOC 20.
One hour lecture (12 hours total per quarter).
In-depth writing and research on social movements and issues.

LART 200 Developing Reading and Writing Connections 10 Units

Credit course - Does not apply to De Anza associate degree.
Prerequisite: A qualifying score on the Reading and Writing Placement Test.
Ten hours lecture (120 hours total per quarter).
Pass-No Pass (P-NP) course.
Development of reading and writing abilities to the level necessary to be successful in READ 211 and EWRT 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

Credit course - Does not apply to De Anza associate degree.
Prerequisite: EWRT 200 and READ 200 (or LART 200), or a qualifying score on the Reading and Writing Placement Test.
Ten hours lecture (120 hours total per quarter).
Pass-No Pass (P-NP) course.
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
Prerequisite: Consent of instructor and division dean. Student must concurrently work as a tutor (for pay or volunteer at the De Anza College Student Success Center or similar organization, as determined by instructor.
Three hours laboratory (36 hours total per quarter).
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 Student Success Center, or similar organization, as determined by instructor.

LRNA 96 Introduction to Peer Tutoring in Groups 2 Units
Requisite/Advisory: None.
Two hours lecture (24 hours total per quarter).
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 and Reading 3 Units
Prerequisite: EWRT 1A or EWRT 1AH or ESL 5.
Three hours lecture (36 hours total per quarter).
Required training for De Anza writing and reading 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 Tutor Training for Math/Science Tutors 1 Unit
Prerequisite: Must be selected to work as a De Anza tutor.
One hour lecture (12 hours total per quarter).
Pass-No Pass (P-NP) course.
Required training course for De Anza math/science 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.

LIBRARY

LIB 1 Library Research Skills 1 Unit
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture (12 hours total per quarter).
Introduces skills needed to locate, evaluate, and cite information. Focuses on the resources of academic libraries including online catalogs, periodical indexes, and instructional web sites. Prepares students to do the basic research necessary to effectively complete written and oral assignments.

LIB 51 Business Resources on the World Wide Web 1 Unit
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture (12 hours total per quarter).
Locate, examine and evaluate business-related information available on the World Wide Web.

LIB 53 Advanced Internet Searching 1 Unit
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture (12 hours total per quarter).
This course is designed to help students locate and identify harder to find information sources and critically evaluate these for quality and relevancy. The concept of the "hidden web" -- information not indexed by search engines -- is also part of this class.

LINGUISTICS

LING 1 Introduction to Linguistics 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Introduction to the study of how language works, such as the basics of linguistic description, including systems of phonetics and phonology, semantics, pragmatics, morphology and syntax. Course may also include the development of spoken and written languages, how people learn language, how language changes, the history of English, American Sign Language, and the study of general linguistic principles as they apply across languages.

MANDARIN

MAND 1 Elementary Mandarin (First Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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
(See general education pages for the requirement this course meets.)
Prerequisite: MAND 1 (equivalent to one year of high school Mandarin) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Further development of material presented in MAND 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
(See general education pages for the requirement this course meets.)
Prerequisite: MAND 2 (equivalent to two years of high school Mandarin) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Further development of material presented in MAND 1 and MAND 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
(See general education pages for the requirement this course meets.)
Prerequisite: MAND 3 (equivalent to three years of high school Mandarin) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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 the first-quarter low intermediate level of Mandarin will be introduced and practiced within a cultural framework.

MAND 5 Intermediate Mandarin (Second Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: MAND 4 (equivalent to four years of high school Mandarin) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Continuation of MAND 4. Read and discuss texts dealing with 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 second-quarter intermediate level of Mandarin will be introduced and practiced within a cultural framework.

MAND 6 Intermediate Mandarin (Third Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: MAND 5 or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Continuation of MAND 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 third-quarter high intermediate level of Mandarin will be introduced and practiced within a cultural framework.

MASSAGE THERAPY

The Massage Therapy Program's 500-hour certificate has recently been approved by the CAMTC. Graduates of our program would be allowed to sit for the CAMTC Certification Examination after they complete the Certificate of Achievement successfully.

The college has implemented a new Live Scan screening process for all students who wish to continue their education beyond MASG 50, Introduction to Massage Therapy. Details are available on the De Anza College Massage Therapy website.

MASG 50A Introduction to Massage 4 Units
(Formerly P E 54.)
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
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.

MASG 50B Intermediate Massage 3 Units
(Formerly P E 54A.)
Prerequisite: MASG 50A or technical proficiency suitable to the course level or admission by instructor approval.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture, three hours laboratory (60 hours total per quarter).
Further study and practice utilizing the principles of massage therapy.

MASG 50C Sports Massage 3 Units
(Formerly P E 54B.)
Prerequisite: MASG 50A and MASG 50B (may be taken concurrently), or technical proficiency suitable to the course level.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture, three hours laboratory (60 hours total per quarter).
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.

MASG 50D Advanced Massage Skills 4 Units
(Formerly P E 54C.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
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.

MASG 51 Clinical Practicum in Massage Therapy 3 Units
(Formerly P E 54D.)
Prerequisite: MASG 50D or technical proficiency suitable to course level.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture, six hours laboratory (84 hours total per quarter).
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.

MASG 52 Table Shiatsu 4 Units
(Formerly P E 54E.)
Prerequisite: MASG 50A and MASG 50B (may be taken concurrently), or technical proficiency suitable to the course level.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
This class presents a broad overview of Eastern medical theory. Theory, methods, procedures and practice of Shiatsu, a Japanese method of hands on healing will be introduced.

MASG 53 Introduction to Chair Massage 3 Units
(Formerly P E 54F.)
Prerequisite: MASG 50A or technical proficiency suitable to the course level.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture, three hours laboratory (60 hours total per quarter).
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.

MASG 54A Massage Therapy Internship in Adapted Physical Education Laboratory 1 Unit
MASG 54B 2 Units
MASG 54C 3 Units
(Formerly P E 54H, 54J and 54K respectively.)
Prerequisite: MASG 50A and successful completion of the class selected for internship. Student must also receive approval from the instructor of the class in order to participate.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Students shall assume the role of an Adaptive Physical Education Assistant under the supervision of Adaptive Physical Education instructors. Schedule is determined by agreement between student and Adaptive Physical Education intern supervisor.

MASG 55A Massage Therapy Teacher's Assistant Internship 1 Unit
MASG 55B 2 Units
MASG 55C 3 Units
(Formerly P E 54L, 54M and 54N respectively.)
Prerequisite: MASG 50A and successful completion of the class selected for internship. Student must also receive approval from the instructor of the class in order to participate.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
An internship that provides opportunities for advanced massage therapy students to reinforce and master the massage training gained in classes they have completed. With instructor approval students shall assume the role of a Teacher's Assistant in a massage lab.

MASG 56A Sports Massage Internship 1 Unit
MASG 56B 2 Units
MASG 56C 3 Units
(Formerly P E 54P, 54Q and 54R respectively.)
Prerequisite: MASG 50A and MASG 50C, and permission from a Sports Massage Instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
With instructor approval, students shall assume the role of a Sports Massage Therapist working in the training room, under the supervision of an athletic trainer or with an athletic team, under the supervision of a coach. This hands-on opportunity will provide the student a chance to refine their sports massage skills by working with athletes prior to competition, post competition and on their health maintenance between events.

MATHEMATICS

MATH 1A Calculus 5 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in MATH 1AH.)
Prerequisite: MATH 43 (with a grade of C or better), or appropriate score on Calculus Placement Test within the past calendar year.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Fundamentals of differential calculus.

MATH 1AH Calculus - HONORS 5 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in MATH 1A.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Prerequisite: MATH 43 (with a grade of C or better), or appropriate score on Calculus Placement Test within the past calendar year.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Fundamentals of differential calculus. As an honors course the students will be expected to complete extra assignments to gain deeper insight in calculus.

MATH 1B Calculus 5 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in MATH 1BH.)
Prerequisite: MATH 1A or MATH 1AH.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Fundamentals of integral calculus.

MATH 1BH Calculus - HONORS 5 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in MATH 1B.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Prerequisite: MATH 1A or MATH 1AH.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Fundamentals of integral calculus. As an honors course the students will be expected to complete extra assignments to gain deeper insight in calculus.

MATH 1C Calculus 5 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in MATH 1CH.)
Prerequisite: MATH 1B or MATH 1BH (with a grade of C or better) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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 1CH Calculus - HONORS 5 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in MATH 1C.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Prerequisite: MATH 1B or MATH 1BH (with a grade of C or better) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Infinite series, lines and surfaces in three dimensions, vectors in two and three dimensions, parametric equations of curves. Derivatives and integrals of vector functions. As an honors course the students will be expected to complete extra assignments to gain deeper insight in calculus.

MATH 1D Calculus 5 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in MATH 1DH.)
Prerequisite: MATH 1C or MATH 1CH (with a grade of C or better) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Partial derivatives, multiple integrals, vector calculus.

MATH 1DH Calculus - HONORS 5 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in MATH 1D.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Prerequisite: MATH 1C or MATH 1CH (with a grade of C or better) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Partial derivatives, multiple integrals, vector calculus. As an honors course the students will be expected to complete extra assignments to gain deeper insight in calculus.

MATH 2A Differential Equations 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: MATH 1D or MATH 1DH (with a grade of C or better).
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Ordinary differential equations and selected applications.

MATH 2B Linear Algebra 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: MATH 1D or MATH 1DH (with a grade of C or better).
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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.)
(Not open to students with credit in MATH 10H.)
Prerequisite: MATH 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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. The course introduces the student to applications in engineering, business, economics, medicine, education, social sciences, psychology, 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 10H Elementary Statistics and Probability - HONORS 5 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in MATH 10.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Prerequisite: MATH 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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. The course introduces the student to applications in engineering, business, economics, medicine, education, social sciences, psychology, 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. As an honors course the students will be expected to complete extra assignments to gain deeper insight into probability and statistics.

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 MATH 114 or equivalent with a grade of C or better.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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: MATH 11 or MATH 41.
Five hours lecture (60 hours total per quarter).
Introduction to limits, differentiation, and integration of single variable functions. Differentiation of multivariate functions. Applications in business, economics, and social science.

MATH 17 Integrated Statistics 2 5 Units
(Formerly MATH 57.)
(See general education pages for the requirement this course meets.)
Prerequisite: MATH 217.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
This is the second quarter of two in the Statway sequence comprised of MATH 217 and MATH 17. This sequence covers concepts and methods of statistics with an emphasis on data analysis. Sequence topics include methods for collecting data, graphical and numerical descriptive statistics, correlation, simple linear regression, basic concepts of probability, probability distributions, confidence intervals, hypothesis tests for means and proportions, chi-square tests, and ANOVA. The course introduces students to applications in engineering, business, economics, medicine, education, the sciences, and those pertaining to issues of contemporary interest. Where appropriate, the contributions to the development of statistics by men and women from diverse cultures will be introduced. This sequence is recommended for students with majors that require no mathematics beyond freshman-level statistics. It is not appropriate for students with majors in math, science, computer science or business, nor for students desiring to attend UC or private universities.

MATH 22 Discrete Mathematics 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: MATH 43 with a grade of C or better, or equivalent and CIS 22A or CIS 35A with a grade of C or better, or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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: MATH 1C or MATH 1CH (with a grade of C or better).
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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: MATH 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Polynomial, rational, exponential and logarithmic functions, graphs, solving equations, conic sections.

MATH 42 Precalculus II: Trigonometric Functions 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: MATH 41 (with a grade of C or better); or a satisfactory score on the College Level Math Placement Test within the last calendar year.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
The theory of trigonometric functions and their applications.

MATH 43 Precalculus III: Advanced Topics 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: MATH 41 and MATH 42 (both with a grade of C or better); or a satisfactory score on Calculus Readiness Test within the last calendar year.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Hyperbolic functions, 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 Math Placement Test within the past calendar year; or MATH 114 or equivalent with a grade of C or better.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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: MATH 114 with a grade of C or better, or a qualifying score on Intermediate Algebra Placement Test within the past calendar year.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as EDUC 46. Students may enroll in either department, but not both, for credit.)
Five hours lecture (60 hours total per quarter).
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 76 Special Projects in Probability and Statistics 1 Unit
MATH 76X 2 Units
MATH 76Y 3 Units
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Pass-No Pass (P-NP) course.
Individual special reading, writing or study projects in probability and statistics as determined in consultation with the instructor.

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 (36 hours total for each unit of credit per quarter).
Pass-No Pass (P-NP) course.
Individual special reading, writing, or study projects in mathematics as determined in consultation with the instructor.

MATH 78 Special Projects in Pure Mathematics 1 Unit
MATH 78X 2 Units
MATH 78Y 3 Units
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Pass-No Pass (P-NP) course.
Individual special reading, writing, or study projects in pure mathematics as determined in consultation with the instructor.

MATH 79 Special Projects in Applied Mathematics 1 Unit
MATH 79X 2 Units
MATH 79Y 3 Units
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Pass-No Pass (P-NP) course.
Individual special reading, writing, or study projects in applied mathematics as determined in consultation with the instructor.

MATH 114 College Math Preparation Level 3: Intermediate Algebra 5 Units
Prerequisite: Qualifying score on the Math Placement Test within last calendar year; or MATH 212 or equivalent with a grade of C or better.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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 ½ Unit
Credit course - Does not apply to De Anza associate degree.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One and one-half hours laboratory (18 hours total per quarter).
Pass-No Pass (P-NP) course.
Review of content of MATH 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 ½ Unit
Credit course - Does not apply to De Anza associate degree.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One and one-half hours laboratory (18 hours total per quarter).
Pass-No Pass (P-NP) course.
Review of content of MATH 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 ½ Unit
Credit course - Does not apply to De Anza associate degree.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One and one-half hours laboratory (18 hours total per quarter).
Pass-No Pass (P-NP) course.
Review of content of MATH 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
Credit course - Does not apply to De Anza associate degree.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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
Credit course - Does not apply to De Anza associate degree.
Prerequisite: Qualifying score on the Math Placement Test within last calendar year; or MATH 210 or equivalent with a grade of C or better.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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 217 Integrated Statistics I 10 Units
Credit course - Does not apply to De Anza associate degree.
Prerequisite: Qualifying score on the Math Placement Test within last calendar year; or MATH 210 or equivalent with a grade of C or better.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Ten hours lecture (120 hours total per quarter).
This is the first quarter of two in the Statway sequence comprised of MATH 217 and MATH 57. This sequence covers concepts and methods of statistics with an emphasis on data analysis. Topics include methods for collecting data, graphical and numerical descriptive statistics, correlation, simple linear regression, non-linear models and basic concepts of probability. The course introduces the student to applications in engineering, business, economics, medicine, education, the sciences, and those pertaining to issues of contemporary interest. Where appropriate, the contributions to the development of statistics by men and women from diverse cultures will be introduced. This sequence is recommended for students with majors that require no mathematics beyond freshman-level statistics. It is not appropriate for students with majors in math, science, computer science or business, nor for students desiring to transfer to a UC or private university.

MATH 241 Academic Excellence in Precalculus I 1 Unit
Credit course - Does not apply to De Anza associate degree.
Co-requisite: MATH 241 students must also enroll in MATH 41.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
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 242 Academic Excellence in Trigonometry 1 Unit
(Formerly MATH 252.)
Credit course - Does not apply to De Anza associate degree.
Co-requisite: MATH 242 students must also enroll in MATH 42.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
Critical thinking and skills reinforcement in a trigonometry setting: cooperative learning/study techniques, concept development, and use of technology.

MATH 243 Academic Excellence in Precalculus III 1 Unit
Credit course - Does not apply to De Anza associate degree.
Co-requisite: MATH 243 students must also enroll in MATH 43.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
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.

METEOROLOGY

MET 10 Weather and Climate Processes 5 Units
(See general education pages for the requirement this course meets.)
Advisory: MATH 210 or equivalent; EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Introduction to the principles of the sciences of meteorology and climatology including: history of the sciences; 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; air pollution; atmospheric optics, global climate and the processes that produce climate change including "global warming."

MET 10L Meteorology Laboratory 1 Unit
(See general education pages for the requirement this course meets.)
Prerequisite: MATH 210 or equivalent; MET 10 (may be taken concurrently).
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
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 designed 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 20L Climate Studies Laboratory 1 Unit
(See general education pages for the requirement this course meets.)
Prerequisite: MET 10 (may be taken concurrently).
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 210 or equivalent.
Three hours laboratory (36 hours total per quarter).
Introductory climatology lab developed in collaboration with the American Meteorological Society which places students in a dynamic learning environment where they investigate Earth's climate system using real-world data used by professional climatologists to study and forecast future changes in Earth's climate system. Lab sessions will include current computer graphics products downloaded from the American Meteorological Society's "Online Climate Studies" homepage which has been specifically designed for this course. Students will practice the analytical skills used by climatologists in assessing the world's climate and will examine the factors that produce critical changes in climate such as "global warming." While focusing on science, students will address many of the social and societal impacts of impending climate change.

MUSIC

MUSI 1A Introduction to Music: Music in Western Cultures 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
An introduction to music through world music and its influence on current musical trends in the United States. Music of diverse cultures which will 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
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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 1E Introduction to Music: Latin America and the Caribbean 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Introduction to the discipline of Music through the Music of Latin America and the Caribbean; methods of understanding music in Latin American countries and regions including Argentina, the Andes, Brazil, Caribbean nations and Mexico. Includes study of traditional, popular and "art" music; historical roots and cultural analysis, including musical influences on and from the United States; listening techniques; and use of fundamental concepts including musical elements, form and style.

MUSI 3A Comprehensive Musicianship (First Quarter) 4 Units
Requisite/Advisory: None.
Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).
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 (Second Quarter) 4 Units
Prerequisite: MUSI 3A or by audition.
Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).
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
Prerequisite: MUSI 3B or or by audition.
Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).
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 (First Quarter) 4 Units
Prerequisite: MUSI 3C or by audition.
Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).
Principles, literacy, and parameters of music including writing scores, comprehensive and aural analysis, sight singing, rhythmic training, ear training, and keyboard work including extended pitch vocabulary.

MUSI 4B Comprehensive Musicianship II (Second Quarter) 4 Units
Prerequisite: MUSI 4A or by audition.
Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).
Principles, literacy, and parameters of music including writing musical scores, comprehensive and aural analysis, sight singing, rhythmic training, ear training, and keyboard work, 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
Prerequisite: MUSI 4B or by audition.
Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).
Principles, literacy, and parameters of music including writing, comprehensive and aural analysis, sight singing, rhythmic training, ear training, and keyboard work 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: MUSI 3A or equivalent.
Three hours lecture, one hour laboratory (48 hours total per quarter).
Modal counterpoint in two, three, and four parts using both the species approach and the phenomenological approach to assess the efficacy of the species approach when examining the historical literature and to produce, imitative, and free counterpoint examples.

MUSI 8 Intermediate Electronic Music 3 Units
Prerequisite: MUSI 51.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Two hours lecture, three hours laboratory (60 hours total per quarter).
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 modern music. Some prior music experience and/or concurrent enrollment in MUSI 10A or MUSI 12A is recommended, but not required.

MUSI 9A Jazz Piano I 1 ½ Units
(Formerly MUSI 9.)
Prerequisite: Ability to play a keyboard instrument and read music.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Class Applied Performance - Jazz and Non-Western Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Development of the ability to play basic 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 is developed through the application of provided scale choices and techniques for melodic development.

MUSI 9B Jazz Piano II 1 ½ Units
(Formerly MUSI 69B.)
Prerequisite: MUSI 9A or by instructor consent.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, two hours laboratory (36 hours total per quarter).
Development of the ability to play intermediate jazz piano arrangements from lead sheets in a variety of jazz styles and settings using knowledge of jazz theory, jazz piano techniques, and improvisational skills. Improvisational skill on the piano is developed through the application of scales determined through the use of jazz theory and harmonic analysis, and the application of techniques for melodic development.

MUSI 9C Jazz Piano III 1 ½ Units
(Formerly MUSI 69C.)
Prerequisite: MUSI 9B or by instructor consent.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, two hours laboratory (36 hours total per quarter).
Development of the ability to play advanced jazz piano arrangements from lead sheets in a variety of jazz styles and settings using knowledge of jazz harmony, jazz piano techniques, and improvisational skills. Improvisational skill on the piano is developed through the application of basic to advanced scales determined through the use of jazz theory and harmonic analysis, and the application of idiomatic phrases.

MUSI 10A Music Fundamentals 3 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Three hours lecture (36 hours total per quarter).
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 MUSI 3A diagnostic test. Music Fundamentals students with no previous musical experience may benefit from concurrent enrollment in a beginning instrumental or vocal performance class.

MUSI 12A Class Piano I 1 ½ Units
Advisory: MUSI 10A.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Piano Class Applied Performance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Beginning piano for students with no previous instruction, those who need knowledge of piano for a teaching credential, music majors and the general student.

MUSI 12B Class Piano II 1 ½ Units
Prerequisite: MUSI 12A or consent of instructor.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Piano Class Applied Performance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Basic piano for beginning students who read treble and bass clef and understand music notation.

MUSI 12C Class Piano III 1 ½ Units
Prerequisite: MUSI 12B or consent of instructor.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Piano Class Applied Performance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Piano performance with emphasis on interpretation, musical form and harmony.

MUSI 13A Beginning Singing I 1 ½ Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; an understanding of basic music notation and some possession of basic piano skills, or concurrent enrollment in MUSI 10A or MUSI 12A.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Voice Class Applied Performance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Class instruction for beginners in techniques of solo and group singing. Training in controlling tonal production, breathing, diction, and musical accuracy.

MUSI 13B Beginning Singing II 1 ½ Units
Prerequisite: MUSI 13A or equivalent.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; an understanding of basic music notation and some possession of basic piano skills, or concurrent enrollment in MUSI 10A or MUSI 12A.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Voice Class Applied Performance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Continuation of MUSI 13A with emphasis on musicianship, memorization, legato singing, correction of individual problems, and the rudiments of performance. Training in controlling tonal production, breathing, diction, and musical accuracy.

MUSI 13C Beginning Singing III 1 ½ Units
(Formerly MUSI 53C.)
Prerequisite: MUSI 13B or equivalent.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Voice Class Applied Performance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
A continuation of MUSI 13B with emphasis on developing repertoire of art songs (Italian, German, French, English) and musicianship, memorization, legato singing, correction of individual problems, and introduction to opera and music theater. Includes technique development and the rudiments of performance. Training in controlling tonal production, breathing, diction, and musical accuracy.

MUSI 14A Classical Guitar I 1 ½ Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Guitar Class Applied Performance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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 14B Classical Guitar II 1 ½ Units
Prerequisite: MUSI 14A or equivalent level; admission by instructor consent.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Guitar Class Applied Performance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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 14C Classical Guitar III 1 ½ Units
Prerequisite: MUSI 14B or equivalent level; admission by instructor consent.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Guitar Class Applied Performance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Continuation and expansion of skills learned in Classical Guitar II. Development of sight-reading skills, complex rhythms and multiple-voice music in first through third positions using exercises and standard guitar repertoire. Emphasis on proper technique, interpretation, dynamics and tone color.

MUSI 14D Classical Guitar IV 1 ½ Units
(Formerly MUSI 54D.)
Prerequisite: MUSI 14B or equivalent level; admission by instructor consent.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Guitar Class Applied Performance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Continuation of skills learned in MUSI 14C, with greater emphasis on higher positions and longer/more difficult compositions.

MUSI 15A Guitar Ensemble I 2 Units
Prerequisite: Enrollment subject to audition; ability to execute proper classical guitar technique and read music.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, three hours laboratory (48 hours total per quarter).
(Satisfies the associate's degree music ensemble requirement. Any combination of MUSI 15A and MUSI 15B may be taken up to six times for credit.)
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 15B Guitar Ensemble II 2 Units
Prerequisite: MUSI 15A or equivalent. Enrollment subject to audition; ability to execute proper classical guitar technique and read music at sight in the first position.
One hour lecture, three hours laboratory (48 hours total per quarter).
(Satisfies the associate degree music ensemble requirement. Any combination of MUSI 15A and MUSI 15B may be taken up to six times for credit.)
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 16A Beginning Acoustic Guitar 1 ½ Units
(Formerly MUSI 56A.)
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Guitar Class Applied Performance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
A beginning level course covering basic guitar technique, such as strumming, fingerstyle picking, and open and moveable position chords. Both tablature and music notation are covered. No previous musical experience is required. Ideal for learning folk song accompaniment and basic melodies, as well as simple "riffs" and improvisation. Highly recommended for those pursuing music education or primary school teaching certificates and degrees.

MUSI 16B Jazz, Blues and Popular Guitar 1 ½ Units
(Formerly MUSI 16.)
Prerequisite: MUSI 16A or equivalent skill level; admission by instructor consent.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Class Applied Performance - Jazz and Non-Western Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An early-intermediate level study of the common practices used in jazz, blues and selected styles of popular music. Guitar styles from the 1940s 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 18A Intermediate Piano I 1 ½ Units
(Formerly MUSI 78A.)
Prerequisite: MUSI 12C or consent of instructor.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Piano Class Applied Performance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
A study of the traditional classical piano literature from the Baroque era to present day. Focus will be on the differences in interpretation and style for each of the time periods as well as development of piano technique, specifically required for mastery of compositions from those time periods.

MUSI 18B Intermediate Piano II 1 ½ Units
(Formerly MUSI 78B.)
Prerequisite: MUSI 18A or consent of instructor.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Piano Class Applied Performance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Continued study of the traditional classical piano literature from the Baroque era to the present day. Focus will be on the differences in interpretation and style for each of the time periods as well as the development of advanced piano technique specifically required for mastery of compositions from those time periods.

MUSI 18C Intermediate Piano III 1 ½ Units
(Formerly MUSI 78C.)
Prerequisite: MUSI 18B or consent of instructor.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Piano Class Applied Performance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
A study the traditional classical piano literature from the Baroque to the present day. Focus will be on the differences in interpretation and style for each of the time periods as well as development of advanced intermediate piano technique specifically required for mastery of compositions from those time periods.

MUSI 20 De Anza Chorale 2 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, three hours laboratory (48 hours total per quarter).
(Satisfies the associate degree music ensemble requirement. May be taken up to six times for credit.)
Study and performance of traditional, classical and contemporary choral literature. Cultivation of performance skills in accompanied music. Attendance at all scheduled performances is required. Enrollment is open to all students. An introductory hearing will assess pitch-matching ability and determine vocal range and appropriate choral part.

MUSI 21 Vintage Singers 2 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; concurrent enrollment in MUSI 10A, 10B, 3A, 3B, 3C or 12A is recommended.
One hour lecture, three hours laboratory (48 hours total per quarter).
(Satisfies the associate degree music ensemble requirement. May be taken up to six times for credit.)
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: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; concurrent enrollment in MUSI 10A, 10B, 3A, 3B, 3C or 12A is recommended.
One hour lecture, three hours laboratory (48 hours total per quarter).
(Satisfies the associate degree music ensemble requirement. 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 25 Applied Music 1 Unit
Prerequisite: Placement by audition; MUSI 3A, 3B, 3C, 4A, 4B or 4C (may be taken concurrently) and MUSI 15A, 15B, 20, 21, 22, 31, 34, 42 or 45 (may be taken concurrently).
Three hours laboratory (36 hours total per quarter).
(Satisfies the associate degree Music requirement. May be taken up to six times for credit.)
An individualized study of the appropriate techniques and repertoire for the specific instrument or voice being studied. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. The laboratory will include activities such as individual one on one music instruction and group meetings, as well as faculty supervised on-campus practice. This course requires technical command of the instrument and basic knowledge of musicianship.

MUSI 31 Chamber Orchestra 2 Units
Prerequisite: Enrollment subject to audition; ability to play an orchestral instrument and read music at sight.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, three hours laboratory (48 hours total per quarter).
(Satisfies the associate degree music ensemble requirement. May be taken up to six times for credit.)
Study, preparation and performance of orchestral literature for chamber orchestra with an emphasis on both early and late 18th century performance practice and then applying that practice, rhetoric and sensibility into music of the 19th, 20th and 21st centuries.

MUSI 32A Jazz Solo Voice I 1 ½ Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MUSI 13B or the equivalent.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Class Applied Performance - Jazz and Non-Western Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Introductory level 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 ½ Units
Prerequisite: MUSI 32A or equivalent.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, two hours laboratory (36 hours total per quarter).
Intermediate level 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. Prepares students for professional activity in the area of vocal jazz solo performance.

MUSI 34 Jazz Ensemble 2 Units
Prerequisite: Audition based on the ability to play a traditional big band instrument and read music.
One hour lecture, three hours laboratory (48 hours total per quarter).
(Satisfies the associate degree music ensemble requirement. 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 41V Rehearsal and Performance 1 ½ Units
MUSI 41W 2 Units
Prerequisite: Placement by audition.
One hour lecture, one and one-half hours laboratory for the one and one-half unit course (30 hours total per quarter); one hour lecture, three hours laboratory for the two unit course (48 hours total per quarter).
Supervised participation in the various aspects of music rehearsal and/or performance.

MUSI 42 Concert Band 2 Units
Prerequisite: Placement by audition based on the ability to play a band instrument and read music at sight.
One hour lecture, three hours laboratory (48 hours total per quarter).
(Satisfies the associate degree music ensemble requirement. May be taken up to six times for credit.)
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 44A Composition and Arranging - Level I 1 ½ Units
(Formerly MUSI 64A.)
Prerequisite: MUSI 3A or MUSI 3B.
One hour lecture, two hours laboratory (36 hours total per quarter).
The art and technique of writing and arranging music. Solving basic compositional problems, writing melodies and simple harmonies, simple manipulation of different types of pitch sets, creating logical patterns of rhythms, arranging material for different instrumentation, extending and condensing material, creation of original compositions, reading/sight singing of student exercises and original compositions, and analysis of existing published music are all involved.

MUSI 45 Jazz Combos 2 Units
Prerequisite: Placement by audition based on the ability to play an instrument and read music.
One hour lecture, three hours laboratory (48 hours total per quarter).
(Satisfies the associate degree music ensemble requirement. May be taken up to six times for credit.)
Preparation and performance of music for jazz combo. 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 48A Jazz Improvisation I 1 ½ Units
(Formerly MUSI 48.)
Prerequisite: Ability to play an instrument and read music.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Class Applied Performance - Jazz and Non-Western Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Development of improvisational skill in the jazz idiom. Analysis of scales, chords, and forms as applicable to improvisational performance of basic standard jazz songs. Ear training and transcribing solos is included. Participation in final recital is required.

MUSI 48B Jazz Improvisation II 1 ½ Units
(Formerly MUSI 68B.)
Prerequisite: MUSI 48A or by instructor consent.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, two hours laboratory (36 hours total per quarter).
Further development of improvisational skill in the jazz idiom. Higher level of difficulty in analysis of scales, chords, and forms applicable to improvisational performance of intermediate level jazz songs. Ear training and transcribing solos included. Participation in a final recital is required.

MUSI 48C Jazz Improvisation III 1 ½ Units
(Formerly MUSI 68C.)
Prerequisite: MUSI 48B or by instructor consent.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, two hours laboratory (36 hours total per quarter).
Development of improvisational skill in the jazz idiom. More advanced analysis of scales, chords, and forms applicable to improvisational performance of advanced jazz songs. Ear training and transcribing solos is included. Participation in final recital is required.

MUSI 51 Introduction to Electronic Music 3 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Two hours lecture, three hours laboratory (60 hours total per quarter).
Introduction to the use of keyboard controllers, hardware and software synthesizers and instruments, and sequencing and audio software to create music projects 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: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Three hours lecture (36 hours total per quarter).
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 music for film, television, sound recording, the record industry, and Internet applications.

MUSI 58A Beginning African and African-Influenced Percussion and Rhythms 1 ½ Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Class Applied Performance - Jazz and Non-Western Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
An introduction to selected African, Afro-Caribbean and Latin American rhythms applied to hand drums, stick drums and percussion instruments. Each quarter focuses on one particular culture area and its traditional and popular music styles. No musical experience required. Instruments for in-class use provided.

MUSI 58B Intermediate African and African-Influenced Percussion and Rhythms 1 ½ Units
Prerequisite: MUSI 58A or equivalent level.
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
One hour lecture, two hours laboratory (36 hours total per quarter).
(This course is included in the Class Applied Performance - Jazz and Non-Western Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Intermediate-level skill development of selected African, Afro-Caribbean and Latin American rhythms applied to hand drums, stick drums and other percussion instruments. Each quarter focuses on one particular culture area and its traditional and popular music styles. Instruments for in-class use provided.

MUSI 77 Special Projects in Music 1 Unit
MUSI 77X 2 Units
MUSI 77Y 3 Units
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Individual advanced projects in music.

NURSING

The following are the nursing education options and career paths for students at De Anza College. For specific program requirements, see Certificates and A.A./A.S. Degree Programs located in this catalog.

Registered Nursing Program

L.V.N. Transition to R.N. Nursing Program

Continuing Education for Nurses

Applications for the licensure programs (R.N., or L.V.N. Transition) are available after successfully completing the following: NURS 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 the licensed nursing discipline. 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 approved 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 o 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: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Two hours lecture (24 hours total per quarter).
Pass-No Pass (P-NP) course.
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 ½ Unit
NURS 77X 1 Unit
NURS 77Y 2 Units
NURS 77Z 3 Units
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Pass-No Pass (P-NP) course.
Individual special theory projects in nursing as determined in consultation with the director.

NURS 81 Fundamental Nursing (Non-Acute/Sub-Acute Care) 4 Units
Prerequisite: Admission into the De Anza College Nursing Program.
Co-requisite: NURS 81 students must also enroll in NURS 81L.
Four hours lecture (48 hours total per quarter).
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.
Co-requisite: NURS 81L students must also enroll in NURS 81.
Fifteen hours laboratory (180 hours total per quarter).
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 81P Pharmacology I 1 ½ Units
(Open to non-nursing students with instructor approval.)
Prerequisite: Admission into the De Anza College Nursing Program.
One and one-half hours lecture (18 hours total per quarter).
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: NURS 81, 81L and 81P (all courses with a grade of C or better).
Co-requisite: NURS 82 students must also enroll in NURS 82L.
Four hours lecture (48 hours total per quarter).
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: NURS 81, 81L and 81P (all courses with a grade of C or better).
Co-requisite: NURS 82L students must also enroll in NURS 82.
Fifteen hours laboratory (180 hours total per quarter).
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 ½ Units
(Open to non-nursing students with instructor approval.)
Prerequisite: NURS 81P (with a grade of C or better).
One and one-half hours lecture (18 hours total per quarter).
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 non-parenteral and parenteral routes with emphasis on parenteral routes.

NURS 83 Perinatal Nursing 2 Units
Prerequisite: NURS 82 and NURS 82L (all courses with a grade of C or better).
Co-requisite: NURS 83 students must also enroll in NURS 83L.
Two hours lecture (24 hours total per quarter).
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's 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: NURS 82 and 82L (all courses with a grade of C or better).
Co-requisite: NURS 83A students must also enroll in NURS 83AL.
Two hours lecture (24 hours total per quarter).
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's specific scope of practice.

NURS 83AL Pediatric Nursing (Clinical) 2 ½ Units
Prerequisite: NURS 82 and NURS 82L (all courses with a grade of C or better).
Co-requisite: NURS 83AL students must also enroll in NURS 83A.
Seven and one-half hours laboratory (90 hours total per quarter).
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 ½ Units
Prerequisite: NURS 82 and NURS 82L (all courses with a grade of C or better).
Co-requisite: NURS 83L students must also enroll in NURS 83.
Seven and one-half hours laboratory (90 hours total per quarter).
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 ½ Units
(Open to non-nursing students with instructor approval.)
Prerequisite: NURS 82P (with a grade of C or better).
Co-requisite: NURS 83P students must also enroll in NURS 83PL.
One and one-half hours lecture (18 hours total per quarter).
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 ½ Unit
Prerequisite: NURS 82P (with a grade of C or better).
Co-requisite: NURS 83PL students must also enroll in NURS 83P.
One and one-half hours laboratory (18 hours total per quarter).
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: NURS 83, 83A, 83AL, 83L, 83P and 83PL (all courses with a grade of C or better).
Co-requisite: NURS 84 students must also enroll in NURS 84L.
Four hours lecture (48 hours total per quarter).
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's scope of practice. This course and its clinical component (NURS 84L) must be taken concurrently. Failure of either requires both to be retaken.

NURS 84C Critical Thinking in Nursing 2 Units
Prerequisite: NURS 83, 83A, 83AL, 83L, 83P and 83PL (all courses with a grade of C or better).
Two hours lecture (24 hours total per quarter).
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's specific scope of practice.

NURS 84L Medical/Surgical II (Care of the Older Adult) - Clinical 5 Units
Prerequisite: NURS 83, 83A, 83AL, 83L, 83P and 83PL (all courses with a grade of C or better).
Co-requisite: NURS 84L students must also enroll in NURS 84.
Fifteen hours laboratory (180 hours total per quarter).
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 as 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 (NURS 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: NURS 84, 84C and 84L (all courses with a grade of C or better).
Co-requisite: NURS 85 students must also enroll in NURS 85L.
Two hours lecture (24 hours total per quarter).
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's specific scope of practice.

NURS 85A Psychiatric/Mental Health Nursing (Theory) 2 Units
Prerequisite: NURS 84, 84C and 84L (all courses with a grade of C or better).
Co-requisite: NURS 85A students must also enroll in NURS 85AL.
Two hours lecture (24 hours total per quarter).
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 ½ Units
Prerequisite: NURS 84, 84C and 84L (all courses with a grade of C or better).
Co-requisite: NURS 85AL students must also enroll in NURS 85A.
Seven and one-half hours laboratory (90 hours total per quarter).
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 settings within the general hospital, including inpatient acute care, partial hospitalization and outpatient programs. Clinical and theory (NURS 85A) components must be taken concurrently. Failure of either component requires both courses to be retaken.

NURS 85L Advanced Medical-Surgical Clinical 2 ½ Units
Prerequisite: NURS 84, 84C and 84L (all courses with a grade of C or better).
Co-requisite: NURS 85L students must also enroll in NURS 85.
Seven and one-half hours laboratory (90 hours total per quarter).
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: NURS 85, 85A, 85AL and 85L (all courses with a grade of C or better).
Co-requisite: NURS 86 students must also enroll in NURS 86L.
Two hours lecture (24 hours total per quarter).
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: NURS 85, 85A, 85AL, and 85L (all courses with a grade of C or better).
Co-requisite: NURS 86L students must also enroll in NURS 86.
Fifteen hours laboratory (180 hours total per quarter).
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 151 Nursing Laboratory Skills for Fundamental (Non-Acute) Nursing 1 Unit
Co-requisite: NURS 151 students must also enroll in NURS 81L.
Three hours laboratory (36 hours total per quarter).
Pass-No Pass (P-NP) course.
Nursing skills practice in a campus laboratory setting.

NURS 152 Nursing Laboratory Skills for Fundamental Acute Nursing 1 Unit
Co-requisite: NURS 152 students must also enroll in NURS 82L.
Three hours laboratory (36 hours total per quarter).
Pass-No Pass (P-NP) course.
Nursing skills practice in a campus laboratory setting.

NURS 153 Nursing Laboratory Skills for Pediatric and Perinatal Patients 1 Unit
Co-requisite: NURS 153 students must also enroll in NURS 83L or NURS 83AL.
Three hours laboratory (36 hours total per quarter).
Pass-No Pass (P-NP) course.
Nursing skills practice in a campus laboratory setting.

NURS 154 Nursing Laboratory Skills for Care of the Older Adult in an Acute Clinical Setting ½ Unit
Co-requisite: NURS 154 students must also enroll in NURS 84L.
One and one-half hours laboratory (18 hours total per quarter).
Pass-No Pass (P-NP) course.
Nursing skills practice in a campus laboratory setting.

NUTRITION

NUTR 10 Contemporary Nutrition 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Introductory level nutrition. Relationship of nutrients to health and physical fitness. Physiological, cultural, psychological and economic influences on food choices. Evaluation of current nutritional issues and controversies.

NUTR 62 Nutrition and Athletic Performance 2 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Two hours lecture (24 hours total per quarter).
Principles of sports nutrition. Diet and nutrition concepts applicable to strength training, endurance activities and weight control. Use of dietary supplements as popular ergogenic aids.

NUTR 62G Dieting (Sifting Fact from Fiction) 1 Unit
Advisory: NUTR 10 or NUTR 62.
One hour lecture (12 hours total per quarter).
An examination of the causes of obesity, an evaluation of popular weight control diets and an analysis of effective methods of weight loss.

PARALEGAL PROGRAM

PARA 3 Concepts of Criminal Law (CP 2) 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ADMJ 3 and POLI 13. Students may enroll in only one department for credit.)
Four hours lecture (48 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ADMJ 11 and POLI 11. Students may enroll in only one department for credit.)
Four hours lecture (48 hours total per quarter).
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 25 Law and Social Change 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ADMJ 25. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
Exploration of the use of law as an instrument for social change. Examination of the 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 54 Youth and the Law 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ADMJ 54 and SOC 54. Students may enroll in only one department for credit.)
Four hours lecture (48 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory per unit of supervised internship in an authorized office or agency (36 hours total for each unit of credit per quarter).
Program of work experience and study in law, paralegal, or legal research under the supervision of the instructor and agency personnel.

PARA 65W Current Paralegal Topics 1 Unit
PARA 65X 2 Units
PARA 65Y 3 Units
PARA 65Z 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; background or experience appropriate to topic or consent of instructor.
One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).
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 67 Law Office Management for Paralegals 2 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture (24 hours total per quarter).
An examination of the law office environment, its structure and procedural aspects, and the important role the paralegal plays within it.

PARA 69 Paralegal Field Trips 1 Unit
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory (36 hours total per quarter).
A survey of current conditions in the paralegal field.

PARA 74A Interviewing, Interrogation and Crisis Intervention 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ADMJ 74A and PSYC 74A. Students may enroll in only one department for credit.)
Four hours lecture (48 hours total per quarter).
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.

PARA 75 Principles and Procedures of the Justice System 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ADMJ 75 and POLI 75. Students may enroll in only one department for credit.)
Four hours lecture (48 hours total per quarter).
Procedures followed by law enforcement and courts in criminal cases; constitutional principles governing those procedures.

PARA 84 Trial Preparation 4 Units
Prerequisite: PARA 97B.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Role of paralegal in preparing a case for trial including pretrial planning, evidence gathering and case analysis.

PARA 85 Intellectual Property Law 4 Units
Prerequisite: PARA 95 (may be taken concurrently).
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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.

PARA 86 Legal Analysis 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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.

PARA 87 Personal Injury and Tort Litigation 4 Units
Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or professional experience appropriate to the topic.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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.

PARA 88 The Paralegal and Professional Responsibility 2 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Two hours lecture (24 hours total per quarter).
An examination of the role of the paralegal in the legal system. Ethical rules and guidelines governing legal professionals will also be examined.

PARA 89 Landlord Tenant Law 4 Units
Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or professional experience appropriate to the topic.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
California law relating to creation of landlord/tenant relationship; legal rights of landlords; legal rights of tenants; eviction proceedings.

PARA 90A Legal Aspects of Evidence (CP 4) 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ADMJ 90A. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
The origin, development, and content of the rules of evidence; kinds of degrees of evidence and rules governing admissibility of evidence.

PARA 91A California Family Law 4 Units
Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or professional experience appropriate to the topic.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Substantive and procedural aspects of family law practice in California, with emphasis on dissolution procedures.

PARA 92A Partnerships and Corporations 4 Units
Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or professional experience appropriate to the topic.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Substantive and procedural law of basic business organizations, including sole proprietorships, partnerships, corporations and limited liability companies and partnerships.

PARA 92B Corporate Securities Regulations 4 Units
Prerequisite: PARA 92A, or professional experience appropriate to the topic.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Substantive laws and procedural rules and forms related to California and federal corporate securities regulations.

PARA 93 Bankruptcy Law 4 Units
Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or professional experience appropriate to the topic.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Substantive law of bankruptcy; legal rights of debtors and creditors, procedural rules and forms for bankruptcy; practical applications.

PARA 94 Introduction to California Law 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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 95 Overview of American Law 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ADMJ 95 and POLI 95. Students may enroll in only one department for credit.)
Four hours lecture (48 hours total per quarter).
Overview of the major substantive areas of American law: Agency, contracts, constitutional law, corporations, criminal law, family law, property, torts, wills and estates.

PARA 96A Introduction to Legal Research and Writing 4 Units
Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or PARA 86 (may be taken concurrently) or professional experience appropriate to the topic.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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 96B Advanced Legal Research and Writing 4 Units
Prerequisite: PARA 96A.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Researching complex legal disputes utilizing both print and on-line resources; drafting a memorandum of points and authorities.

PARA 96C Computer Assisted Legal Research and Investigation 4 Units
Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or PARA 96A (may be taken concurrently) or professional experience appropriate to the topic.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
Use the Internet to find legal resources and conduct legal investigation; introduction to the fee-based legal resources such as LEXIS, Westlaw, and Bloomberg Law.

PARA 97A Civil Litigation Procedures 4 Units
Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or professional experience appropriate to the topic.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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: PARA 97A or professional experience appropriate to the topic.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or professional experience appropriate to the topic.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or professional experience appropriate to the topic.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
California probate substantive law and procedures including state and federal estate tax requirements, conservatorships and community property death transfers.

PERSIAN

PERS 1 Elementary Persian (First Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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
(See general education pages for the requirement this course meets.)
Prerequisite: PERS 1 (equivalent to one year of high school Persian) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Further development of material presented in PERS 1. Continuation of introduction to the language and cultures of the Persian-speaking states. Speaking, listening, reading and writing of Persian will be extended and practiced within a cultural framework. Continued application of 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
(See general education pages for the requirement this course meets.)
Prerequisite: PERS 2 (equivalent to two years of high school Persian) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Further development of material presented in PERS 1 and PERS 2 with further introduction to the language and cultures of the Persian-speaking countries. Extended speaking, listening, reading and writing of basic Persian language, practiced within a cultural framework. Language laboratory practice to reinforce pronunciation, grammar, and syntax.

PHILOSOPHY

PHIL 1 Knowledge and Reality 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introduction to two of the most fundamental branches of philosophy, Epistemology (the study of knowledge and Metaphysics (the study of reality). Pluralistic approaches will be applied to classical and contemporary problems, issues, and figures.

PHIL 2 Social and Political Philosophy 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Examines fundamental issues and methods in social and political philosophy. Emphasis is placed upon historical development as well as contemporary issues and cultural contexts. Issues include rights, equality, freedom, agency, responsibility, evil, and social injustice.

PHIL 3 Critical Thinking and Writing 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: EWRT 1A or EWRT 1AH.
Five hours lecture (60 hours total per quarter).
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. Additionally, arguments will be studied within the context of philosophical issues, texts, and subject matter. A major research paper is also required for the course.

PHIL 4 Critical Thinking 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 7 Deductive Logic 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
A 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 8 Ethics 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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. Many approaches to ethics, including Western and non-Western traditions will be examined. Readings will be selected from moral philosophy, history, psychology, sociocultural criticism, and other sources (such as film and literature).

PHIL 14A Indian Philosophy 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
A study of the development of philosophical thought in India. Primary emphasis is given to the orthodox darshanas, especially Jaina.

PHIL 14B Chinese Philosophy 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
A study of philosophical thought in Japan including Zen Buddhism, Shinto, and contemporary thinkers.

PHIL 20A History of Western Philosophy - Ancient Greece 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Examination of the problems of knowledge, reality, truth, value, agency, morality, and wisdom in Greek philosophy from Thales to Aristotle. Emphasis will be given to applications of Greek thinking to social, aesthetic, cultural, gender, historical, and religious issues.

PHIL 20B History of Western Philosophy - 1400-1800 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introduction to the major philosophers of the Western tradition from the Renaissance through the early modern period. Examination of the problems of knowledge, reality, truth, freedom, agency, morality and value theory in figures from Descartes to Kant, including marginalized figures and groups, such as Elizabeth of Bohemia.

PHIL 20C History of Western Philosophy - 1800-the Present 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introduction to the major philosophers of the Western tradition from 1900 to the present with an emphasis on major philosophers and movements that examine problems of knowledge, reality, truth, value, and human existence, as well as their applications to the sciences and other fields, such as cultural studies.

PHIL 24 Philosophy of Religion 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introduction to Philosophy of Religion investigating religious experience, belief and life under the scope of philosophy. Analyzes issues including: the cognitive component in religious experience, religion and feminism, religious fundamentalism, arguments for and against theism, and attitudes toward both philosophy and religion in a variety of cultural contexts.

PHIL 30 Introduction to Existentialism 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An examination of central figures, texts, and ideas within existential philosophy. Emphasis will be given to the fundamental ontological assumption held by all existentialists, namely existentialists' rejection of rationalism and the idea that a metaphysical system can (or should) describe the world as containing determinate essences that confer univocal conceptual identities upon things, situations, and actions.

PHIL 49 Women and Philosophy 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as WMST 49. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
Examination of feminist theory, "feminism," feminist thought and the philosophy produced by a diverse range of women in philosophy. Investigation of the ways that understandings of the relations between the sexes have influenced the work of philosophers from different cultures.

PHOTOGRAPHY

PHTG 1 Basic Photography 3 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.
Two hours lecture, three hours laboratory (60 hours total per quarter).
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: PHTG 1.
Two hours lecture, three hours laboratory (60 hours total per quarter).
(This course is included in the Analog Photography Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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: PHTG 2 or PHTG 5.
Two hours lecture, three hours laboratory (60 hours total per quarter).
(This course is included in the Photography - Professional Practices Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Advanced photography for film and/or digital practices. Capture, process, and print technically and well-conceived images. Organize and assemble a strong group of images that are conceptually strong and exhibit a strong personal vision. Refine development of critical thinking skills to analyze historical, cultural, conceptual, and practical aspects of the photographic medium.

PHTG 4 Introduction to Digital Photography 3 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Two hours lecture, three hours laboratory (60 hours total per quarter).
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
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Two hours lecture, three hours laboratory (60 hours total per quarter).
(This course is included in the Digital Photography Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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. Basic overview of the history of the medium. Instruction on the use of cameras, lenses, and other creative controls of photography.

PHTG 21 Contemporary Trends in Photography 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
A comprehensive introduction to contemporary trends, styles and applications of photography starting in 1925. An examination of photography's broad impact as a cultural, visual and social force including the diversity of 20th and 21st Century photographic movements.

PHTG 52 Photography Production Laboratory 2 Units
Prerequisite: PHTG 1 or PHTG 4 (may be taken concurrently).
Six hours laboratory (72 hours total per quarter).
(This course is included in the Photography - Professional Practices Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Supervised use of photographic studio, darkrooms and/or photographic computer lab space.

PHTG 54 Experimental Photography 3 Units
Prerequisite: PHTG 1 (may be taken concurrently).
Two hours lecture, three hours laboratory (60 hours total per quarter).
(This course is included in the Analog Photography Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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 57A Commercial Lighting I 3 Units
Prerequisite: PHTG 1 or PHTG 4.
Two hours lecture, three hours laboratory (60 hours total per quarter).
(This course is included in the Photography - Professional Practices Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Basic lighting skills. Provide an understanding of the use of artificial light sources and associated equipment in a studio environment. Learn controls of lighting ratios, contrast, texture and form, reflection, and exposure. Produce photographic images relevant to the techniques and production methods covered.

PHTG 57B Commercial Lighting II 3 Units
Prerequisite: PHTG 57A.
Two hours lecture, three hours laboratory (60 hours total per quarter).
(This course is included in the Photography - Professional Practices Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Intermediate/advanced lighting skills. Learn complex lighting for reflective surfaces, commercial portraits, and exterior and interior architectural shooting. Produce photographic images relevant to the techniques and production methods covered. Gain an understanding of commercial studio organization and operation.

PHTG 58A Photographic Photoshop I 3 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.
Two hours lecture, three hours laboratory (60 hours total per quarter).
(This course is included in the Digital Photography Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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 Photographic Photoshop II 3 Units
Advisory: PHTG 58A; EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.
Two hours lecture, three hours laboratory (60 hours total per quarter).
(This course is included in the Digital Photography Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
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 60 Using a Digital Camera 2 Units
Requisite/Advisory: None.
One hour lecture, three hours laboratory (48 hours total per quarter).
An online introduction to the fundamentals of digital photography; basic camera types, controls, image formats, storage, and creative controls will be covered. Technical and compositional exercises will provide a solid understanding of the photographic medium.

PHTG 77 Special Projects in Photography 2 Units
Prerequisite: Consent of instructor and division dean.
Six hours laboratory (72 hours total per quarter).
(This course is included in the Photography - Professional Practices Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)
Individual projects in creative, technical, or applied photography by written arrangement with the instructor. A specific area is explored in depth and quality.

PHTG 78Y Special Topics in Photographic Studies 2 Units
Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.
Two hours lecture (24 hours total per quarter).
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 4XX High Intensity Strength Development for Athletes 1 Unit

Prerequisite: Enrollment in intercollegiate athletics.
Three hours laboratory (36 hours total per quarter).
(Satisfies the requirement of an intercollegiate athletics course. May be taken up to six times for credit.)
Designed for intercollegiate athletic teams. Specificity of rigorous total body strength development is emphasized. A single set, high intensity, three day per week program is utilized. The course is based upon the principles of high intensity lifting to gain maximum strength throughout the various muscle systems. Concentric and eccentric failure of the muscles is emphasized using free weights and Hammer Strength apparatus.

P E 32B Women's Badminton Techniques 2 Units

(See general education pages for the requirement this course meets.)
Prerequisite: Competitive badminton experience at the high school, club or collegiate levels and consent of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Six hours laboratory (72 hours total per quarter).
(Satisfies the requirement of an intercollegiate athletics course. 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 and competitive 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.)
Prerequisite: Competitive baseball experience at the high school, club or collegiate levels and consent of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Six hours laboratory (72 hours total per quarter).
(Satisfies the requirement of an intercollegiate athletics course. 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.)
Prerequisite: Competitive baseball experience at the high school, club or collegiate levels and consent of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. May be taken up to six times for credit.)
Six hours laboratory (72 hours total per quarter).
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 32HX Offensive Football Techniques 1 Unit
P E 32H 2 Units

(See general education pages for the requirement this course meets.)
Prerequisite: Competitive football experience at the high school, club or collegiate levels and consent of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 32HX and 32H may be taken up to six times for credit.)
Three hours laboratory for the one unit course (36 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter).
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 playbooks the student will learn the various segments of offensive play. Exercise physiology, nutrition, flexibility and strength concepts for conditioning will be covered.

P E 32IX Defensive Football Techniques 1 Unit
P E 32I 2 Units

(See general education pages for the requirement this course meets.)
Prerequisite: Competitive football experience at the high school, club or collegiate levels and consent of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 32IX and 32I may be taken up to six times for credit.)
Three hours laboratory for the one unit course (36 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter).
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 teamwork the student will learn the various segments of defensive play. Exercise physiology, nutrition, flexibility and strength concepts for conditioning will be covered.

P E 32JX Water Polo Techniques 1 Unit
P E 32J 2 Units

(See general education pages for the requirement this course meets.)
Prerequisite: Competitive water polo experience at the high school, club or collegiate levels and consent of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 32JX and 32J may be taken up to six times for credit.)
Three hours laboratory for the one unit course (36 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter).
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

See general education pages for the requirement this course meets.)
Prerequisite: Competitive basketball experience at the high school, club or collegiate levels and consent of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. May be taken up to six times for credit.)
Six hours laboratory (72 hours total per quarter).
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 32LX Volleyball Techniques 1 Unit
P E 32L 2 Units

(See general education pages for the requirement this course meets.)
Prerequisite: Competitive volleyball experience at the high school, club or collegiate levels and consent of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 32LX and 32L may be taken up to six times for credit.)
Three hours laboratory for the one unit course (36 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter).
An introduction to the discipline of Physical Education through the sport of volleyball. Includes a global and historical examination of the sport at an advanced level, rules, equipment, facilities, etiquette, safety, and fundamentals of advanced volleyball. 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 32MX Soccer Techniques 1 Unit
P E 32M 2 Units

(See general education pages for the requirement this course meets.)
Prerequisite: Competitive soccer experience at the high school, club or collegiate levels and consent of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 32MX and 32M may be taken up to six times for credit.)
Three hours laboratory for the one unit course (36 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter).
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.)
Prerequisite: Competitive track and field experience at the high school, club or collegiate levels and consent of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. May be taken up to six times for credit.)
Six hours laboratory (72 hours total per quarter).
An introduction to the discipline of Physical Education through the competitive 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 Swimming 2 Units
(See general education pages for the requirement this course meets.)
Prerequisite: Competitive swimming experience at the high school, club or collegiate levels and consent of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. May be taken up to six times for credit.)
Six hours laboratory (72 hours total per quarter).
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 32SX Women's Soccer Techniques 1 Unit
P E 32S 2 Units
(See general education pages for the requirement this course meets.)
Prerequisite: Competitive soccer experience at the high school, club or collegiate levels and consent of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 32SX and 32S may be taken up to six times for credit.)
Three hours laboratory for the one unit course (36 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter).
Further examination of the discipline of Physical Education through the sport of soccer. 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
(See general education pages for the requirement this course meets.)
Prerequisite: Competitive tennis experience at the high school, club or collegiate levels and consent of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. May be taken up to six times for credit.)
Six hours laboratory (72 hours total per quarter).
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.)
Prerequisite: Competitive softball experience at the high school, club or collegiate levels and consent of instructor.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. May be taken up to six times for credit.)
Six hours laboratory (72 hours total per quarter).
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.

P E 38WX Intercollegiate Women's Badminton 1 ½ Units
P E 38 WY 2 Units
P E 38W 3 Units
(P E 38WX was formerly P E 98A.)
(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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 38WX, 38WY and 38W may be taken up to six times for credit.)
Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).
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 39MX Intercollegiate Men's Soccer 1 ½ Units
P E 39MY 2 Units
P E 39M 3 Units
(P E 39M was formerly P E 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 39MX, 39MY and 39M may be taken up to six times for credit.)
Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).
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 39WX Intercollegiate Women's Soccer 1 ½ Units
P E 39WY 2 Units
P E 39W 3 Units
(P E 39WX was formerly P E 98C.)
(See general education pages for the requirement this course meets.)
Prerequisite: Competitive experience in women's 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 39WX, 39WY and 39W may be taken up to six times for credit.)
Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).
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 is placed upon the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in intercollegiate athletics. The laws of the game, De Anza College code of ethics, and intercollegiate rules will be discussed. Exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to soccer at the collegiate level will be discussed.

P E 40X **Intercollegiate Football** **1 ½ Units**
P E 40Y **2 Units**
P E 40 **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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 40, 40X and 40Y may be taken up to six times for credit.)
Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).
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 41X **Intercollegiate Water Polo** **1 ½ Units**
P E 41Y **2 Units**
P E 41 **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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 41X, 41Y and 41 may be taken up to six times for credit.)
Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).
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 42WX **Intercollegiate Women's Volleyball** **1 ½ Units**
P E 42WY **2 Units**
P E 42W **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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 42WX, 42WY and 42W may be taken up to six times for credit.)
Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).
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 volleyball will be discussed.

P E 43X **Intercollegiate Cross Country (Men and Women)** **1 ½ Units**
P E 43Y **2 Units**
P E 43 **3 Units**

(P E 43X was formerly P E 98G.)
(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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 43X, 43Y and 43 may be taken up to six times for credit.)
Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).
An introduction to the discipline of physical education through the competitive 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 44MX **Intercollegiate Men's Basketball** **1 ½ Units**
P E 44MY **2 Units**
P E 44M **3 Units**

(P E 44MX was formerly P E 98H.)
(See general education pages for the requirement this course meets.)
Prerequisite: Competitive experience in men's 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 44MX, 44MY and 44M may be taken up to six times for credit.)
Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).
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 44WX **Intercollegiate Women's Basketball** **1 ½ Units**
P E 44WY **2 Units**
P E 44W **3 Units**

(P E 44WX was formerly P E 98J.)
(See general education pages for the requirement this course meets.)
Prerequisite: Competitive experience in women's 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 44WX, 44WY and 44W may be taken up to six times for credit.)
Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).
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 45X **Intercollegiate Swimming and Diving (Men and Women)** **1 ½ Units**
P E 45Y **2 Units**
P E 45 **3 Units**

(P E 45X was formerly P E 98K.)
(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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 45X, 45Y and 45 may be taken up to six times for credit.)
Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).
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 46X **Intercollegiate Track and Field** **1 ½ Units**
P E 46Y **(Men and Women)** **2 Units**
P E 46 **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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 46X, 46Y and 46 may be taken up to six times for credit.)
Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).
An introduction to the discipline of Physical Education through the competitive 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 47MX Intercollegiate Baseball 1 ½ Units
P E 47MY 2 Units
P E 47M 3 Units
(P E 47MX was formerly P E 98M.)
(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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 47MX, 47MY and 47M may be taken up to six times for credit.)
Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).
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 47WX Intercollegiate Softball 1 ½ Units
P E 47WY 2 Units
P E 47W 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 47WX, 47WY and 47W may be taken up to six times for credit.)
Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).
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 48MX Intercollegiate Men's Tennis 1 ½ Units
P E 48MY 2 Units
P E 48M 3 Units
(P E 48MX was formerly P E 98P.)
(See general education pages for the requirement this course meets.)
Prerequisite: Competitive experience in men's 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 48MX, 48MY and 48M may be taken up to six times for credit.)
Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).
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 48WX Intercollegiate Women's Tennis 1 ½ Units
P E 48WY 2 Units
P E 48W 3 Units
(P E 48WX was formerly P E 98Q.)
(See general education pages for the requirement this course meets.)
Prerequisite: Competitive experience in women's 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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 48WX, 48WY and 48W may be taken up to six times for credit.)
Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).
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.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
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, prevention of violence in our communities with an emphasis on the prevention of violence against women and other marginalized populations, team work, leadership, time management and study skills. Academic and athletic success will be the focus.

PHYSICAL EDUCATION/ADAPTED

See Kinesiology department (KNES) for additional Physical Education courses.

See Massage Therapy department (MASG) for courses formerly listed in the Physical Education department.

All Intercollegiate Athletics and related Techniques courses remain in the Physical Education department (PE).

"Repeatability" legislation: More information about "Active Participatory Course Limitations (Course Families)" is available at: http://www.deanza.edu/registration/courserepeat.html

PEA 1 Adapted Total Fitness ½ Unit
PEA 1X 1 Unit
PEA 1Y 1 ½ Units
PEA 1Z 2 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
(Repeatable as needed to meet the Student Educational Contract (Title 5, section 56029).)
Adapted to provide reasonable accommodations for students with verified physical disabilities, this course is an introduction to the discipline of Physical Education through total fitness. Students will improve total fitness through a program of cardiovascular exercise, agility, speed, flexibility and resistance training. Includes rules, equipment, etiquette, safety, nutrition, and techniques related to total 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 ½ Unit
PEA 2X 1 Unit
PEA 2Y 1 ½ Units
PEA 2Z 2 Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
(Repeatable as needed to meet the Student Educational Contract (Title 5, section 56029).)
Adapted to provide reasonable accommodations for students with verified physical disabilities, this course 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 ½ Unit
PEA 4X 1 Unit
PEA 4Y 1 ½ Units
PEA 4Z 2 Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
(Repeatable as needed to meet the Student Educational Contract (Title 5, section 56029).)
Adapted to provide reasonable accommodations for students with verified physical disabilities, this course 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 ½ Unit
PEA 5X 1 Unit
PEA 5Y 1 ½ Units
PEA 5Z 2 Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
(Repeatable as needed to meet the Student Educational Contract (Title 5, section 56029).)
Adapted to provide reasonable accommodations for students with verified physical disabilities, this course is an introduction 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 6Y Adapted Outdoor Education 1 ½ Units

(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four and one-half hours laboratory (54 hours total per quarter).
(Repeatable as needed to meet the Student Educational Contract (Title 5, section 56029).)
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 and investigate flora and fauna. Students with disabilities will experience personal fulfillment from being in an outdoor environment. Mental and physical strength will be tested. Adapted skills will be utilized.

PHYSICS

PHYS 2A General Introductory Physics 5 Units

(See general education pages for the requirement this course meets.)
Prerequisite: MATH 1A or MATH 1AH (may be taken concurrently).
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; PHYS 50.
Four hours lecture, three hours laboratory (84 hours total per quarter).
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. 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

Prerequisite: PHYS 2A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture, three hours laboratory (84 hours total per quarter).
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

Prerequisite: PHYS 2B.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture, three hours laboratory (84 hours total per quarter).
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

(See general education pages for the requirement this course meets.)
Prerequisite: PHYS 50 with a grade of C or better, or the equivalent (including high school Physics); MATH 1B or MATH 1BH (may be taken concurrently).
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture, three hours laboratory (96 hours total per quarter).
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

Prerequisite: PHYS 4A; MATH 1C or MATH 1CH (may be taken concurrently).
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture, three hours laboratory (96 hours total per quarter).
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

Prerequisite: PHYS 4B; MATH 1D or MATH 1DH (may be taken concurrently).
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture, three hours laboratory (96 hours total per quarter).
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

Prerequisite: PHYS 4C.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture, three hours laboratory (96 hours total per quarter).
An introduction to 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: MATH 114 or equivalent; or a qualifying score on the Intermediate Algebra Placement Test.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
An exploration of the fundamental concepts of physics as applied to everyday phenomena from a limited mathematical perspective emphasizing verbal logic, critical analysis, and rational thought. The history of scientific procedure as an interplay between theory and experimentation will be analyzed. Students will critically evaluate the role of scientific discovery in the success and development of technology.

PHYS 50 Preparatory Physics 4 Units
Advisory: MATH 43 and PHYS 10.
Four hours lecture (48 hours total per quarter).
A study in basic problem solving techniques in mechanics as a preparation for PHYS 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 (36 hours total for each unit of credit per quarter).
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 5 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Five hours lecture (60 hours total per quarter).
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 in the conduct of U.S. political life (e.g. traditional elites versus the historically (and currently) disenfranchised-- women, people of color, workers, immigrants, etc.) and the interrelationship among social equity, democracy and sustainable environmental conditions.

POLI 2 Comparative Politics 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Comparative analysis of different kinds of political systems, including their history, political institutions, society, culture, economy, processes and policies, the environmental conditions in which they operate, and their consequences.

POLI 3 International Relations 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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, about both classic and modern issues in politics (e.g., individual versus community rights, freedom, equality and distributional justice, environmental sustainability and generational equity, the "rights" of nature and non-human life, power, sovereignty and the state, etc.).

POLI 10 Introduction to Administration of Justice 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ADMJ 1. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
An introduction to the characteristics of the criminal justice system in the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, response to crime, components of the system and current challenges to the system. Examines the evolution of the principles and approaches utilized by the justice system and the evolving forces which have shaped those principles and approaches. Although justice structure and process is examined in a cross cultural context, emphasis is placed on the US justice system, particularly the structure and function of US police, courts and corrections. Students are introduced to the origins and development of criminal law, legal process, and sentencing and incarceration policies.

POLI 11 Federal Courts and Constitutional Law 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ADMJ 11 and PARA 11. Students may enroll in only one department for credit.)
Four hours lecture (48 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ADMJ 3 and PARA 3. Students may enroll in only one department for credit.)
Four hours lecture (48 hours total per quarter).
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
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ICS 25. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
Applied and theoretical learning 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, class, and ecology as well as the role of the state (policy) to the process of migration and immigration.

POLI 16 Grassroots Democracy: Social Movements Since the 1960s 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ICS 36. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
Applied and theoretical learning for students of social justice, this course is a comparative survey of protest movements since the 1960s. 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, ecological 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 ecology, gender, race, ethnicity, culture, class, and sexual orientation in contemporary U.S. politics.

POLI 17 Grassroots Democracy: Leadership and Power 4 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in ICS 27 or ICS 27H or POLI 17H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ICS 27. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
Applied and theoretical training 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: gender and race sensitive approaches to leadership style, institutional and mass forums for civic engagement, mass recruitment and mobilization, consciousness development, democratic ethics, and strategic and tactical action.

POLI 17H Grassroots Democracy: Leadership and Power - HONORS 4 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in POLI 17 or ICS 27 or ICS 27H.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ICS 27H. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
Applied and theoretical training 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: gender and race sensitive approaches to leadership style, institutional and mass forums for civic engagement, mass recruitment and mobilization, consciousness development, democratic ethics, and strategic and tactical action. As an honors course the students will be expected to complete extra assignments to gain deeper insight into the issues raised in this class.

POLI 56 Introduction to Community Organizing 2 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Two hour lecture (24 hours total per quarter).
Community organizing efforts by people working together to improve their campuses, neighborhoods, and cities is the focus of this course. The course prepares students to become professional organizers, campus leaders, and effective citizen advocates. The history, theory, and different approaches to grassroots community organizing sometimes using selected case studies as illustration will be explored. Ideas from the current context for organizing, the impact of social change theories, organizing strategies, tools and new methodologies used in community organizing will be analyzed and then applied. (Off campus field trips may be required.)

POLI 64 Political Science Internship 1 Unit
POLI 64X 2 Units
POLI 64Y 3 Units
POLI 64Z 4 Units
Advisory: POLI 1.
Three hours laboratory per unit of supervised internship in an authorized office or agency (36 hours total for each unit of credit per quarter).
Program of work experience and study in a political office, government agency, or community organization under the supervision of the instructor and office, agency, or organization personnel.

POLI 75 Principles and Procedures of the Justice System 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ADMJ 75 and PARA 75. Students may enroll in only one department for credit.)
Four hours lecture (48 hours total per quarter).
Procedures followed by law enforcement and courts in criminal cases; constitutional principles governing those procedures.

POLI 78W Topics in Political Science 1 Unit
POLI 78X 2 Units
POLI 78Y 3 Units
POLI 78Z 4 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).
Topics in Political Science that deal with specialized and topical issues of government, the exercise of political power, political structures, the distribution of resources, and other topics related to political science in contemporary or historical contexts.

POLI 95 Overview of American Law 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ADMJ 95 and PARA 95. Students may enroll in only one department for credit.)
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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: PSYC 1 (may be taken concurrently).
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Five hours lecture, three hours laboratory (96 hours total per quarter).
Psychology as a behavioral science and profession. Basic principles of learning, and behavior modification and scientific methodology.

PSYC 3 Human Experimental Psychology (An Introduction to Cognitive Science) 6 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5; PSYC 1.
Five hours lecture, three hours laboratory (96 hours total per quarter).
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
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5; PSYC 1.
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as C D 10G. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
An introductory course that examines the major physical, psychosocial and cognitive/language developmental milestones for children, both typical and atypical, from conception through middle childhood. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. (This course meets NAEYC Standards 1 and 3; NBPTS Standards 1 and 4; and CEC Standards 1, 2 and 3.)

PSYC 10H Child Growth and Development (Middle Childhood and Adolescence) 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as C D 10H. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
An introductory course that examines the major physical, psychosocial and cognitive/language developmental milestones for children, both typical and atypical, from school age through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. (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: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as WMST 12. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Interaction of the biological, social, cognitive and psychological aspects of human development across the life span.

PSYC 15 Basic Statistics and Research Methods in Social and Behavioral Sciences 4 Units
(See general education pages for the requirement this course meets.)
Prerequisite: PSYC 1 or SOC 1; MATH 114 or equivalent.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as SOC 15. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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
(See general education pages for the requirement this course meets.)
Prerequisite: PSYC 1.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 51 Psychology of Wellness 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5; PSYC 1.
Four hours lecture (48 hours total per quarter).
An exploration in the research,related concepts,factors and practices that contribute to overall health and wellness. It emphasizes holism: the physical, intellectual, emotional, social and spiritual components of wellness. It is interdisciplinary in nature drawing on source materials from positive, cross-cultural, clinical and health psychology, holistic health and neuroscience. The course will entail academic, experiential and interactive learning and requires students to actively engage in course material through reading, writing, participating in class and home practices and applying methods for improving well-being into their daily lives.

PSYC 60 Industrial Organizational Psychology 4 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ADMJ 62. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5; PSYC 1.
Three hours laboratory per unit of supervised internship in an authorized office or agency (36 hours total for each unit of credit per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ADMJ 74A and PARA 74A. Students may enroll in only one department for credit.)
Four hours lecture (48 hours total per quarter).
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

READ 70 Reading Across the Disciplines 1 Unit
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
One hour lecture (12 hours total per quarter).
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 course. This course offered in coordination with specific sections of content area courses.

READ 71 Critical Readings in Social Movements 1 Unit
Co-requisite: READ 71 students must also enroll in SOC 20.
One hour lecture (12 hours total per quarter).
Improving comprehension of reading materials in areas of social movements and social change, with a particular emphasis in an examination of the art of protest. Course will use specified reading strategies to understand, analyze and critique complex texts.

READ 80 Advanced Reading for College Success 4 Units
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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.

READ 200 Reading Fundamentals 5 Units
Credit course - Does not apply to De Anza associate degree.
Prerequisite: A qualifying score on the Reading Placement Test.
Five hours lecture (60 hours total per quarter).
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
Credit course - Does not apply to De Anza associate degree.
Prerequisite: READ 200; or a qualifying score on the Reading Placement Test.
Five hours lecture (60 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.
Four hours lecture (48 hours total per quarter).
Fundamental principles of real estate: economics, law, working concepts, forms and terminology.

REST 51 Real Estate Practices 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; REST 50.
Four hours lecture (48 hours total per quarter).
Real estate business practices: procedures, forms and contracts.

REST 52A Legal Aspects of Real Estate 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; REST 50.
Four hours lecture (48 hours total per quarter).
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
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; REST 50.
Four hours lecture (48 hours total per quarter).
Regulations and procedures for financing real estate: types of lenders; primary and secondary investors; methods and guidelines for qualifying for real property loans.

REST 61 Real Estate Investments 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; REST 50.
Four hours lecture (48 hours total per quarter).
Real estate investments including apartments, commercial, and industrial buildings.

RUSSIAN

RUSS 1 Elementary Russian (First Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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
(See general education pages for the requirement this course meets.)
Prerequisite: RUSS 1 (equivalent to one year of high school Russian) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Further development of material presented in RUSS 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
(See general education pages for the requirement this course meets.)
Prerequisite: RUSS 2 (equivalent to two years of high school Russian) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Further development of material presented in RUSS 1 and RUSS 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.

SIGN LANGUAGE

SIGN 1 Elementary American Sign Language (First Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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 1 or equivalent.
Five hours lecture (60 hours total per quarter).
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 2 or equivalent.
Five hours lecture (60 hours total per quarter).
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

SKIL 232 Adjunct Study Skills ½ Unit
Credit course - Does not apply to De Anza associate degree.
Requisite/Advisory: None.
One and one-half hours laboratory (18 hours total per quarter).
Pass-No Pass (P-NP) course.
Introductory small group collaborative instruction linked to specific content courses and individualized study skills lab modules. Student must be concurrently enrolled in an approved content course. Students learn, practice, and apply to targeted courses skills such as time management, textbook reading, note taking, and test taking.

SKIL 233 Adjunct Study Skills Practice ½ Unit
Credit course - Does not apply to De Anza associate degree.
Requisite/Advisory: None.
One and one-half hours laboratory (18 hours total per quarter).
Pass-No Pass (P-NP) course.
Further practice in small group collaborative instruction linked to specific content courses and individualized study skills lab modules. Student must be enrolled in an approved content course. Students advance, practice, and apply to targeted courses skills such as time management, textbook reading, note taking, and test taking.

SOCIAL SCIENCE

SOSC 80 Community Based Learning in Social Sciences - Beginning ½ Unit
SOSC 80W 1 Unit
SOSC 80X 2 Units
SOSC 80Y 3 Units
SOSC 80Z 4 Units
Requisite/Advisory: None.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Practical work with a community, business or civic institution and reflection on that activity, at a beginning level.

SOSC 82 Community Based Learning in Social Sciences - Intermediate ½ Unit
SOSC 82W 1 Unit
SOSC 82X 2 Units
SOSC 82Y 3 Units
SOSC 82Z 4 Units
Requisite/Advisory: None.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Intermediate level practical work with a community, business or civic institution and reflection on that activity.

SOSC 83 Community Based Learning in Social Sciences - Advanced ½ Unit
SOSC 83W 1 Unit
SOSC 83X 2 Units
SOSC 83Y 3 Units
SOSC 83Z 4 Units
Requisite/Advisory: None.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Advanced level practical work with a community, business, or civic institution and advanced level reflection on that activity.

SOCIOLOGY

SOC 1 Introduction to Sociology 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as INTL 8. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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 14 The Process of Social Research 4 Units
(Formerly SOC 64.)
(See general education pages for the requirement this course meets.)
Prerequisite: SOC 1.
Advisory: EWRT 1A or EWRT 1AH or ESL 5; SOC 15 or PSYC 15.
Four hours lecture (48 hours total per quarter).
Examination of the application of the scientific method to understanding social phenomena. Explores important processes in social research including the selection and definition of problems of investigation, ethics in research, the relationship between theory and data, and quantitative and qualitative data-gathering and data analysis techniques.

SOC 15 Basic Statistics and Research Methods in Social and Behavioral Sciences 4 Units
(See general education pages for the requirement this course meets.)
Prerequisite: PSYC 1 or SOC 1; MATH 114 or equivalent.
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as PSYC 15. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
Elementary statistics including measures of central tendency, variability, probability, correlation, tests of significance, experimental and quasi-experimental designs.

SOC 20 Social Problems 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 28 Sociology of Women and Men 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as WMST 28. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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 29 Sociology of Structural Racism in the United States 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Sociological investigation into the socio-historical development of race and ethnicity as analytical categories and organizing principles in the U.S. Emphasis on the impact of racialized public policies and structural practices on past and contemporary structures in U.S. society. Analysis of socio-legal effects of the Civil Rights Movement, public policy and its impact on diverse racial and ethnic populations in the U.S. Demographic implications of race and ethnic relations on major social institutions in the United States. Historical and sociological assessment of majority,Äiminority relations with emphasis on the experiences of African-Americans, Hispanic/Latino-Americans, Asian-Americans and the indigenous Native American tribes, and mixed-race populations. Exploration of intersectional relationships between categories of labor, race, ethnicity, and gender.

SOC 35 Marriage, Family, and Intimate Relationships 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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 51 Women in Crime 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ADMJ 51. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ADMJ 54 and PARA 54. Students may enroll in only one department for credit.)
Four hours lecture (48 hours total per quarter).
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: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
(Also listed as ADMJ 73. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Individual and/or group projects in sociology that deal with one or more aspects in the field of sociology.

SOC 97A The Art of Protest 1 Unit
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
One hour lecture (12 hours total per quarter).
Explores social movements and the art they generate from a sociological perspective. It addresses the function of art within social movements and the use of art in collective action around social problems.

SOC 97B Schooling and Inequality 1 Unit
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
One hour lecture (12 hours total per quarter).
Applies the sociological perspective to schooling as an institution and investigates the processes through which schooling reproduces race, class and gender inequality in society.

S

SPANISH

SPAN 1 Elementary Spanish (First Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
An 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: SPAN 1 (equivalent to one year of high school Spanish) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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: SPAN 2 (equivalent to two years of high school Spanish) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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: SPAN 3 (equivalent to three years of high school Spanish) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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: SPAN 4 (equivalent to four years of high school Spanish) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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 SPAN 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: SPAN 5 or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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 SPAN 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.

SPECIAL EDUCATION

SPED 230 Vocational Interests and Aptitudes 1 Unit
SPED 230R 2 Units
SPED 230S 3 Units
SPED 230T 4 Units
SPED 230U 5 Units
SPED 230V 6 Units
SPED 230W 7 Units
SPED 230X 8 Units
SPED 230Y 9 Units
SPED 230Z 10 Units
Credit course - Does not apply to De Anza associate degree.
Requisite/Advisory: None.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
(Repeatable as needed to meet the Student Educational Contract (Title 5, section 56029).)
Pass-No Pass (P-NP) course.
This course is specifically designed for students with verified intellectual disabilities. It includes exploration of vocational interests, aptitudes, career choices and life goals. It also includes the development of essential work related attitudes, behaviors, interpersonal skills, work skills and addresses personal responsibility through individualized instruction and training to meet the skill level identified in the Student Educational Contract.

SPED 231 Workforce Skills 1 Unit
SPED 231R 2 Units
SPED 231S 3 Units
SPED 231T 4 Units
SPED 231U 5 Units
SPED 231V 6 Units
SPED 231W 7 Units
SPED 231X 8 Units
SPED 231Y 9 Units
SPED 231Z 10 Units
Credit course - Does not apply to De Anza associate degree.
Requisite/Advisory: None.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
(Repeatable as needed to meet the Student Educational Contract (Title 5, section 56029).)
Pass-No Pass (P-NP) course.
Specifically designed for students with verified intellectual disabilities. It includes the development of workforce skills in support of entry-level employment and the goals identified in the Student Educational Contract. This course also addresses the core competency of personal responsibility.

SPED 232 Workplace Culture 1 Unit
SPED 232R 2 Units
SPED 232S 3 Units
SPED 232T 4 Units
SPED 232U 5 Units
SPED 232V 6 Units
SPED 232W 7 Units
SPED 232X 8 Units
SPED 232Y 9 Units
SPED 232Z 10 Units
Credit course - Does not apply to De Anza associate degree.
Requisite/Advisory: None.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
(Repeatable as needed to meet the Student Educational Contract (Title 5, section 56029).)
Pass-No Pass (P-NP) course.
Specifically designed for students with verified intellectual disabilities. It includes identification of the different aspects of workplace culture including employer expectations, professional conduct and attitudes necessary to be successful on a job. Core competency of physical/mental wellness and personal responsibility will be addressed. Individualized instruction and training used to meet the goals identified in the Student Educational Contract.

SPED 233 Professional Conduct 1 Unit
SPED 233R 2 Units
SPED 233S 3 Units
SPED 233T 4 Units
SPED 233U 5 Units
SPED 233V 6 Units
SPED 233W 7 Units
SPED 233X 8 Units
SPED 233Y 9 Units
SPED 233Z 10 Units
Credit course - Does not apply to De Anza associate degree.
Requisite/Advisory: None.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).

(Repeatable as needed to meet the Student Educational Contract (Title 5, section 56029).)
Pass-No Pass (P-NP) course.
Specifically designed for students with verified intellectual disabilities. Students will develop an understanding of professional conduct necessary for success in varied employment settings. Students will learn how to communicate clearly and professionally in the context of a work environment and demonstrate individual and collaborative work habits with a respect for social and cultural diversity.

SPED 234 Civic Responsibility 1 Unit
SPED 234R 2 Units
SPED 234S 3 Units
SPED 234T 4 Units
SPED 234U 5 Units
SPED 234V 6 Units
SPED 234W 7 Units
SPED 234X 8 Units
SPED 234Y 9 Units
SPED 234Z 10 Units
Credit course - Does not apply to De Anza associate degree.
Requisite/Advisory: None.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
(Repeatable as needed to meet the Student Educational Contract (Title 5, section 56029).)
Pass-No Pass (P-NP) course.
Specifically designed for students with verified intellectual disabilities and focuses on the exploration of legal, social and environmental issues from the perspective of adults with disabilities. Students will explore legal, social, and environmental issues: where and how to access information and participate in the community through advocacy, volunteerism, and work. Students will receive individualized instruction and training to meet the skill level identified in the Student Educational Contract. This course represents the core competencies of information literacy, and social and environmental awareness.

SPED 235 Transition to Campus 1 Unit
SPED 235R 2 Units
SPED 235S 3 Units
SPED 235T 4 Units
SPED 235U 5 Units
SPED 235V 6 Units
SPED 235W 7 Units
SPED 235X 8 Units
SPED 235Y 9 Units
SPED 235Z 10 Units
Credit course - Does not apply to De Anza associate degree.
Requisite/Advisory: None.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
(Repeatable as needed to meet the Student Educational Contract (Title 5, section 56029).)
Pass-No Pass (P-NP) course.
Specifically designed for students with verified intellectual disabilities. This course focuses on campus culture and the expectations and rules for all students on a college campus. Students will learn how to access campus information and services. This course represents the core competencies of personal responsibility with an emphasis upon respect for diversity. Students will explore the steps necessary to meet career choices and life goals and explore the requirements, coursework, and strategies to obtain a certificate or degree. Individualized instruction and training to meet the skills identified in the Student Educational Contract.

SPED 240 Assistive Technology Access Evaluation ½ Unit
Credit course - Does not apply to De Anza associate degree.
Requisite/Advisory: None.
One and one-half hours laboratory (18 hours total per quarter).
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 Assistive Technology Access (Windows) 2 Units
Credit course - Does not apply to De Anza associate degree.
Requisite/Advisory: None.
One hour lecture, three hours laboratory (48 hours total per quarter).
Development of basic skills in the use of computer access technologies to enhance the disabled student's ability to access and use computer technology in the context of word processing and other relevant applications.

SPED 290X Assistive Technology Access Practice ½ Unit
SPED 290Y 1 Unit
Credit course - Does not apply to De Anza associate degree.
Prerequisite: SPED 240.
Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).
Pass-No Pass (P-NP) course.
Individualized development of skills in the analysis and use of assistive technology in an adapted computer laboratory.

SPEECH COMMUNICATION

(See Communication Studies for course listings.)

TELEVISION

(See Film and Television Production for course listings.)

THEATRE ARTS

THEA 1 Appreciation of Theatre 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Four hours lecture (48 hours total per quarter).
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) 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
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) 4 Units
Prerequisite: THEA 20A.
Three hours lecture, three hours laboratory (72 hours total per quarter).
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) 4 Units
Prerequisite: THEA 20A.
Advisory: THEA 20B.
Three hours lecture, three hours laboratory (72 hours total per quarter).
A continuation of acting study including extensive participation in the performance of selected scenes from classic period plays of diverse theatre traditions.

THEA 80A Theory and Technique of Acting for the Camera 4 Units
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
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 4 Units
Prerequisite: THEA 80A.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Three hours lecture, three hours laboratory (72 hours total per quarter).
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.

VIETNAMESE

VIET 1 Elementary Vietnamese (First Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Introduction to the language and cultures of Vietnam and Vietnamese communities. Basic speaking, listening, reading and writing of Vietnamese will be introduced and practiced within a cultural framework. Vietnamese will be the primary language of instruction. Emphasis will be on language as an expression of culture and a medium of communication.

VIET 2 Elementary Vietnamese (Second Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: VIET 1 (equivalent to one year of high school Vietnamese) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Further development of material presented in VIET 1. Continuation of introduction to the language and cultures of Vietnam and Vietnamese communities. Speaking, listening, reading and writing of Vietnamese will be continued and practiced within a cultural framework. Vietnamese will be the primary language of instruction. Emphasis will be on language as an expression of culture and a medium of communication.

VIET 3 Elementary Vietnamese (Third Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: VIET 2 (equivalent to two years of high school Vietnamese) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Further development of material presented in VIET 1 and VIET 2. Basic speaking, listening, reading and writing of Vietnamese will be further introduced and practiced within a cultural framework. First introduction to popular sayings, literary texts for a better examination 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: VIET 3 (equivalent to three years of high school Vietnamese) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
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 structures of first-year Vietnamese. Speaking, listening, reading and writing of the first quarter low intermediate level of Vietnamese will be introduced and practiced within a cultural framework.

VIET 5 Intermediate Vietnamese (Second Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: VIET 4 (equivalent to four years of high school Vietnamese) or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Continuation of VIET 4. Review the linguistic functions and further discussion of grammatical features beyond the low intermediate level. Development of reading, writing, speaking and listening skills at the intermediate level needed to spontaneously request and provide a greater range of more sophisticated information. Read and discuss texts dealing with geography, history, literature, social and cultural practices of the Vietnamese-speaking world.

VIET 6 Intermediate Vietnamese (Third Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: VIET 5 or equivalent.
Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.
Five hours lecture (60 hours total per quarter).
Continuation of VIET 5. Complete review of the linguistic functions and the grammar structures of Vietnamese language and further discussion of grammatical features needed to spontaneously and accurately request and provide information, orally and in writing, about a wide variety of topics. Development of reading, writing, speaking and listening skills at the high intermediate level. Analysis and discussion of texts and out-of texts dealing with the literature, arts, history and culture of the Vietnamese-speaking world.

WOMEN'S STUDIES

WMST 1 Introduction to Women's Studies 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ARTS 3TC. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
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.)
(Not open to students with credit in HIST 9 or HIST 9H or WMST 9H.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as HIST 9. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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 9H Women in American History - HONORS 4 Units
(See general education pages for the requirement this course meets.)
(Not open to students with credit in HIST 9 or HIST 9H or WMST 9.)
(Admission into this course requires consent of the Honors Program Coordinator.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as HIST 9H. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
A 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. -- As an honors course, the students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into women's history in America.

WMST 12 Psychology of Gender 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as PSYC 12. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
A survey of the psychobiological, cultural, social and intellectual factors influencing the psychology of gender.

WMST 21 Women in Literature 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as ELIT 21. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
Intensive study of representative literary works by or about women including an analysis of different historical, cultural, and critical perspectives.

WMST 22 Asian American Pacific Islander Women 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introduction to the study of Asian American Pacific Islander (AAPI) women in American society in historical and sociological perspective. Emphasis is placed on AAPI feminist scholarship; cultural representations; cultural productions; immigration, refugee, and diasporic experiences; resistance to racism, sexism, classism, and patriarchy; and labor and work issues. This course is designed for all students interested in Women and Gender Studies, as well as those interested in Asian American Studies.

WMST 24 Women and Gender in Global Perspectives 4 Units
(See general education pages for the requirements this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
A study in the construction and reproduction of gender inequities around the globe, as well as ways people resist these processes in diverse societies.

WMST 25 Introduction to Black Feminism 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An interdisciplinary, multi-perspective, critical analysis and comparative study of Black Feminism. Examines some of the key theories and ideas of Black Feminism and Black Feminist Thought, including womanist theory, theory of intersectionality, and standpoint theory. It will consider how Black women have challenged the intersecting effects of racism, sexism, classism, colonialism, homophobia, media exploitation, and other forms of social violence. Students will read major works, learn to engage in critical dialogue, and articulate their own positions concerning the basic ideas and principles of Black Feminism. The values, experience, and cultural contributions of Black feminist and/or Black womanist individuals in the United States will be identified, examined, and authenticated.

WMST 26 La Mujer: Latina Life and Experience 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An introduction to the study of Latinas in American society in historical and sociological perspective. Emphasis is placed on Latina feminist scholarship and cultural representations, border issues and migration, resistance to patriarchy, labor, and the search for power. This course is designed for all students interested in Women and Gender Studies, as well as those interested in Chicana/o and Latina/o Studies.

WMST 27 Women and Gendered Violence 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
A study in violence against women, in particular, and across gender and sexuality spectrums, and its impact upon U.S. civic life as well as globally.

WMST 28 Sociology of Women and Men 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as SOC 28. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
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 29 Masculinities in U.S. Culture and Society 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
An interdisciplinary and intersectional study of masculinities within US culture and society from the post-Civil Rights era to the present. Special attention will be given to how masculinity is constructed along axes of race, sexuality, class, nation and ability.

WMST 31 Women and Popular Culture 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
Four hours lecture (48 hours total per quarter).
Feminist and cultural studies theory to discuss the historical development and contemporary representations of women in popular culture with emphasis on representations of women in film, television, music, advertising, social media, and news media will be used in this course.

WMST 49 Women and Philosophy 4 Units
(See general education pages for the requirement this course meets.)
Advisory: EWRT 1A or EWRT 1AH or ESL 5.
(Also listed as PHIL 49. Students may enroll in either department, but not both, for credit.)
Four hours lecture (48 hours total per quarter).
Examination of feminist theory, "feminism," feminist thought and the philosophy produced by a diverse range of women in philosophy. Investigation of the ways that understandings of the relations between the sexes have influenced the work of philosophers from different cultures.

FACULTY, STAFF & ADMINISTRATORS

FACULTY

ABRAHAMS, MATTHEW (2004)
Speech
B.A., Stanford University;
M.A., University of California, Davis

ABRICA-CARRASCO, RUBEN (2012)
Spanish/Latino Studies
B.A., Occidental College;
M.A., Stanford University

ACEVEDO-AVILA, VERONICA (1995)
Reading
B.A., University of California, Santa Cruz;
M.A., Santa Clara University

ALEXANDER, ROBERT (2009)
Counselor
B.A., San Francisco State University;
M.A., St. Mary's College

ALVES DE LIMA, DIANA (1996)
Tutorial/Academic Skills
B.A., University of California, Berkeley;
M.A., Stanford University

ANNEN, VICKIE (1997)
Biology
B.A., Florida Atlanta University;
M.A., San Francisco State University

APPIO, MICHAEL (2006)
Machine Tools
A.A., De Anza College

ARAGON, ERICK (2013)
Outreach
B.A., San Diego State University;
M.S., Northern Illinois University

ARGYRIOU, ANNE (2000)
Reading
B.A., University of California, Santa Cruz;
M.A., San Francisco State University;
M.Phil., University of Cambridge

AUGENSTEIN, RENEE (1997)
Articulation Officer/
Transfer Services Coordinator
B.A., University of Redlands;
M.A., Loyola Marymount

BALM, CHERYL (2015)
Mathematics
B.A., University of North Carolina;
Ph.D, Michigan State University, East Lansing

BAIAMONTE, NICHOLAS (2007)
Philosophy
B.A., Metro State College of Denver;
M.A., University of California, Riverside

BAMBHANIA, DOLI (2002)
Mathematics
B.A., M.A., University of California, San Diego;
M.S., University of California, Santa Barbara

BEAVER, JENNIFER 2016
Nursing
M.S., University of San Francisco

BENNETT, MARY (1990)
Adaptive Physical Education
A.A., West Valley College;
B.S., M.A., San Jose State University

BETLACH, MARCY (1996)
English as a Second Language
B.A., Washington State University;
M.A., San Jose State University

BLOOM, ROBERTA (2001)
Mathematics
B.A.,Princeton University;
M.A., Harvard University

BOARD LILJENSTOLPE, REBECCA (1997)
Language Arts
B.A., M.A., California Polytechnic State University

BONILLA, MARYALICE (2006)
English
B.A., M.A., California State University, Los Angeles

BOOHER, CHARLES 2016
Philosophy
B.A., California State University, Fullerton;
M.A., University of Chicago;
Ph.D., Syracuse University

BOTSFORD, LYDIA (2007)
Accounting
B.A., University of California, Santa Cruz;
MBA, Santa Clara University

BORDIGNO, GUIDO (2016)
Biology
B.A., M.A., University of Padova
Ph.D., Ca'Foscari University of Venice

BOURGEOIS, MARY JOY (1990)
Child Development
B.A., University of Guam

BOURGOUB, HASSAN (1999)
Mathematics
B.S., M.S., California State University, Los Angeles

BRAM, JASON (2010)
Biology
B.A., University of California, San Diego;
M.A., California State University, Northridge

BREEN, MIA (2000)
Accounting
B.A., University of California, Berkeley

BREITER, SALAMANDER (2001)
Humanities
B.A., Fairhaven College;
M.A., Western Washington University

BRYANT, RANDY (2001)
Automotive Technology
A.S., College of the Air Force;
B.A., American Military University

BUCHNER, PATRICIA (2014)
Medical Technology
B.S., University of California, Davis;
M.S., California Polytechnic State University

CADGE-MOORE, CATIE (1999)
Art History
B.A.,State University of New York, Binghamton;
M.A., University of Washington;
Ph.D., University of Victory

CAPARAS, FRANCESCA (2014)
English
B.A., M.A, University of California, Santa Cruz

CAPITOLO, DAVID (2003)
Automotive Technology
B.S., M.Ed, Eastern New Mexico University

CAPPELLO, EMANUELE (2013)
Business/Computer Science
B.A., California Polytechnic State University;
M.A., Golden Gate University

CAROBUS, PATRICIA 2016
ESL
B.A., University of Londrina;
M.A., San Jose State University

CARRILLO, LUIS 2016
Counseling/PSME
B.A., San Francisco State University;
M.A., San Jose State University

CASTRO, ELISA 2017
Counseling
B.A., University of California, Santa Barbara;
M.S., San Francisco State University

CHAI, CHRISTINE (2002)
English as a Second Language
B.A., B.S., University of California, Davis;
M.A., San Francisco State University

CHANG, LENA (2000)
Library
B.A., San Francisco State University;
M.L.I.S., University of California, Berkeley

CHANG, MICHAEL S. H. (1989)
Asian/Asian-American Studies
B.S., B.A., San Francisco State University;
M.A., Ph.D., Stanford University

CHOW, KAREN (2002)
English
B.S., University of Southern California;
M.A., Ph.D., University of California, Santa Barbara

CICHANSKI, MAREK (1998)
Geology
B.S., University of Washington;
Ph.D., University of Southern California

CINI, CAROL (2001)
History
B.A., Stanford University;
M.A., San Francisco State University;
Ph.D., University of California, Los Angeles

CLEM, ROBERT (1998)
Counseling
B.C.J., Ohio University;
M.S., San Francisco State University

CLINCHARD, LORI (2006)
Humanities
B.A., University of California, Davis;
M.A., California Institute of International Studies

COLEMAN, DAVID (1990)
Counseling
B.A., M.A., University of California, Santa Barbara

CONROY, LINDA C. (1987)
Child Development Center
A.A., De Anza College;
B.A., San Jose State University

CORONADO, MARC (2004)
English
B.A., University of El Paso;
M.A., Ph.D., University of California, Santa Barbara

CORTEZ, ALICIA (1990)
Academic Services
B.A., Saint Mary's College;
M.S.W., University of California, Berkeley;
M.A., San Jose State University

COZZENS, SHERRI (1996)
Nursing
B.S.N., M.S., San Jose State University

CRUZ, MAYRA (2000)
Child Development Education
B.A., University of Puerto Rico;
M.A., San Jose State University

CUFF-ALVARADO, JUDY (1996)
Biology
B.S., Ithaca College;
M.S., Long Island University

DAHLKE, BARBARA (2007)
Counseling
B.S., University of California, San Diego;
M.S., Colorado State University;
M.A., San Jose State University

DAMJANOVIC, JASON (2006)
Physical Education
B.A., Sonoma State University;
M.A., National University

DECK, CECILIA (2012)
Journalism
B.A. University of Windsor;
M.A., McMaster University;
M.A., Santa Clara University

DELANEY, ANTHONY (2007)
English
B.A., University of Oregon;
M.A., University of California, Berkeley

DELAS, MARIA (2006)
Disability Support Services
B.S., California Polytechnic State University;
M.A., Santa Clara University

DELGADO, RICARDO 2016
Mathematics
B.A., M.S., University of Colorado

DENNY, DAVID (1990-2017)
English
B.A., California State University, Long Beach;
M.F.A., University of Oregon;
M.A.T., Fuller Theological Seminary

DESILETS, LENORE (1993)
Mathematics
B.A., University of California, Los Angeles;
M.S., University of Maryland

DE TORO, ALICIA (2010)
Environmental Studies
B.S., M.S., University of California, Santa Barbara

DHALIWAL, HARMAN (2006)
Mathematics
B.S., San Jose State University;
M.S., Ohio State University

DILEONARDO, CHRISTOPHER (1990)
Geology
B.A., M.A., San Jose State University;
Ph.D., University of California, Santa Cruz

DOLEN, THOMAS (2002)
Library
B.A., University of California, Santa Cruz;
MPIA, University of California, San Diego;
M.L.S, Rutgers University

DOUGLAS, UMAR (2016)
Outreach
B.A., San Francisco State University;
M.S.W., Columbia University

DUBARRY, MICHELE (2002)
ESL/Readiness
B.A., M.A., San Francisco State University

DUNN, RONALD (2001)
Music
B.A., University of California, San Diego;
M.M., Florida State University

ELLIS, TERRY R. (1991)
Paralegal/Administration of Justice
B.A., University of California, Los Angeles;
J.D., Santa Clara University

ESPINOZA, MONICA (2016)
Counseling/Language Arts
B.A., M.A., San Jose State University

FERNANDEZ, PURBA (2000)
Geography
B.S., University of Calcutta;
M.S., Pennsylvania State University

FLEMING, DIANA (2000)
English
B.A., Mills College;
M.A., San Francisco State University

FLORES, KATHY (1996)
English as a Second Language
B.A., Santa Clara University;
M.A., San Jose State University

FRANCIS, RONALD (2009)
Physics
B.S., California Institute of Technology;
Ph.D., Massachusetts Institute of Technology

FRITZ, MICHELE (2000)
Business
B.S., Boston University;
M.S., California State University, East Bay;
MBA, Harvard University

FU, MARK (2000)
Counseling
B.A., University of California, Berkeley;
M.A., San Jose State University

GAINER, BRANDON (2013)
Communication Studies
B.A., University of North Carolina, Greensboro;
M.A., San Jose State University;
M.S., California State University, Monterey Bay

GALLEGOS, VERNON (2004)
Dance
B.A., University of California, Los Angeles;
M.A., California State University, Los Angeles

GAMBOA, JUAN 2016
Chicano Studies
B.A., M.A., San Francisco State University

GANESHALINGAM, USHA (2012)
Mathematics
B.S., M.S., San Jose State University

GARBACEA, DELIA (1998)
Computer Information Systems
B.S., Babes-Bolyai University

GARBE, EMILY (2013)
Business/Computer Science
B.S., University of Rhode Island;
MBA, Harvard University;
M.S., Cornell University;
Ph.D, North Central University

GERAGHTY, MAURICE (2002)
Mathematics
B.A., University of California, Berkeley;
M.S., California State University, East Bay

GIARDINO, ALEXANDRIA (2006)
English
B.A., University of Oregon;
M.A., Mills College;
MFA, University of Southern Maine/ Stonecoast

GIBSON, PATRICIA (2000)
Counselor
B.A., San Jose State University;
M.A., San Jose State University

GILLETTE, AIMEE (2013)
Film/TV
B.A., University of Southern California;
M.A., New York University

GLAPION, KEVIN (2001)
Special Education
B.A., University of New Orleans;
M.S., Loyola University

GLASMAN, ILAN (2008)
Music
B.A., University of California, Santa Barbara;
M.A., San Jose State University;
D.M.A., University of Southern California

GLENN, DEBORAH (1997)
Child Development Center
B.A., San Jose State University

GOEL, MANISH (2014)
Computer Science
B.E., Indian Institute;
M.A., University of Miami;
M.S., Northern Illinois University

GONZALEZ-YUEN, NICKY (1992)
Political Science
B.A., Carleton College;
Ph.D., J.D., University of California, Berkeley

GOUGH, W. MICHAEL (1985)
Business
B.A., MBA, University of Santa Clara;
M.A., Notre Dame de Namur University

GRAY, DAVID (1999)
Chemistry
B.A., Rice University;
Ph.D., University of California, Berkeley

GREENE, VALERIE 2016
Environmental Studies
B.S., M.S., San Francisco State University

GROZEVA, MILENA (2014)
Film/TV
B.A., Harvard University;
MFA, University of Texas, Austin

GUEVARA, DAWNIS (2001)
Physical Education
B.A., M.,A., San Jose State University;
M.A., St. Mary's College

GUITRON, PATRICIA (2001)
Counseling
B.A., M.S., San Francisco State University

HALWANI, ESTHER (2008)
Disability Support Services Counselor
B.A., Sonoma State University;
M.S., San Francisco State University

HANSEN, RICHARD N. (1991)
Mathematics
A.B., Cornell University;
M.A., University of California, Berkeley;
M.A., California State University, Los Angeles

HARRINGTON, SHERWOOD (1989)
Astronomy
B.A., Amherst College;
M.A., University of California, Berkeley

HASSETT, SHANNON (2007)
Psychology
B.A., California State University, Fullerton;
M.A., California State University, Long Beach

HEALY, MARK (2012)
Psychology
B.A., University of California, Santa Cruz;
M.A., University of Akron

HEARN, LYDIA (2000)
English
B.A., M.A., University of California, Santa Barbara

HERNANDO, HERMINIO (2001)
Counseling
B.A., University of Hawaii;
M.A., New York University

HERTLER, D. SCOTT (2002)
Physical Education
B.S., San Jose State University;
M.A., St. Mary's College

HEYER, BRUCE (2006)
Biology
B.S., University of California, Davis;
M.A., San Francisco State University

HONG, RUSSELL (2010)
Speech
B.A., University of California, Los Angeles;
M.A., San Jose State University

HOUSER, ERIK (2015)
Mathematics
B.A., M.S., Texas A&M University, Kingsville

HOWARD, WYATT 2016
Mathematics
B.A., University of California, Berkeley;
M.S., Ph.D., University of California, Santa Cruz

HOWARD-PITNEY, DAVID (1992)
History
B.A., Oregon State University;
M.A., Ph.D., University of Minnesota

HOWLAND, STEPHEN (2006)
English
B.A., University of California, Berkeley;
M.A., San Francisco State University

HRYCYK, CATHERINE (2000)
Nursing
B.A., University of Winnipeg;
B.S.N., University of Saskatchewan;
M.Sc.N., University of Western Ontario

HUBBARD, JUDITH A. (1991)
English
Ph.B., Grand Valley State College;
M.A., San Francisco State University

HUGHES, MELINDA (1999)
Counseling
B.A., California State University, Long Beach;
M.A., San Jose State University;
Ed.D., Argosy University

HUI, CECILIA (2011)
Librarian
B.A., M.S., McGill University

HUNTER, TRULY (1996)
Counseling
B.A., Winthrop University;
M.Ed., Clemson University;
Ed.D, Argosy University

HUYNH, KY-DUYEN (1975)
Counseling
B.A., M.A., San Jose State University

ILLOWSKY, BARBARA S. (1989)
Mathematics
B.S., State University of New York at Albany;
M.A., The Wharton School, University of Pennsylvania;
Ph.D., Capella University

INOUE, BETTY 2017
Counseling
B.A. University of California, Riverside;
M.A., Santa Clara University

ISON, MILLIA (1990)
Mathematics
B.S., Shanghai Teachers College;
M.A., State University of New York

JOHNSON, JAYME (2006)
HTCTU Specialist
B.A., Fort Lewis College

JOPLIN, NATASHA (2001)
Counseling
B.S.,Fisk University;
M.S., University of LaVerne

JOSEPH, JAMIE (2014)
English
B.A., University of Nebraska, Lincoln;
M.A., San Francisco State University

JUDSON, ZACHARY (2011)
Mathematics
B.S., University of California, Los Angeles;
Ph.D., University of California Berkeley

KANG'A, SIMON (2012)
Biology
B.S., M.S., Ph.D., Kenyatta University

KARIA, MANISHA 2016
Business
B.S., Bharathiar University;
M.S., Massey University;
Ph.D., University of Technology

KAUFMAN, CYNTHIA (1991)
Philosophy/VIDA
B.A., University of California, Berkeley;
M.A., Ph.D., University of Massachusetts

KAUR, SHAGUNDEEP (2009)
B.Sc., M.A., Punjab University
M.A., San Francisco State University

KESSLER, CYNTHIA (2000)
Child Development Center
B.A., M.A., Pacific Oaks College

KHANNA, ANU (2000)
Communications/Intercultural Studies
B.A., University of Illinois;
M.A., University of Wisconsin, Milwaukee;
Ph.D., Arizona State University

KHOSRAVI, MEHRDAD (2008)
Mathematics
B.S., M.S., Ph.D., University of Central Florida

KLEIN, CHARLES S. (1989)
Mathematics
B.A., Hobart College;
M.A. University of Northern Colorado

KLINGMAN, PAUL (2000)
Design and Manufacturing Technologies
B.S., M.A., Pacific Montana University

KRAGALOTT, ARDEN (2004)
Physical Education
B.A., Ohio Wesleyan University;
M.A., Ohio State University

KRAMER, ALEX (2004)
Speech
A.A., De Anza College;
B.A., San Jose State University

KRESTAS, GEORGE V. (1989)
Engineering
B.S., San Jose State University;
M.S., Santa Clara University

KRYLIOUK, IAROSLAV (2008)
Mathematics
Ph.D., University of Saskatchewan

KUEK, SIEW (2013)
Psychological Services
B.A., University of Calgary;
M.A., Notre Dame University;
Ph.D., The Wright Institute

KWAK, CHRISTOPHER (2000)
Accounting
B.A., Korea University;
B.S., California State University, East Bay;
MBA, Golden Gate University

LAKSHMANAN, SRIDEVI (2016)
Special Education
B.A, Madras University;
B.A., Bangalore University;
M.A., San Francisco State University

LAM, CLARA YIN PING (1991)
English
B.S., The Chinese University of Shatin;
M.Ed., Ed.D., University of Georgia

LEE, CHARLES (2002)
English as a Second Language
B.A., Hebei University;
M.A., San Francisco State University

LEE, MAE (2003)
Intercultural Studies
B.A., M.A., Stanford University;
M.A., Ph.D., University of California, Santa Cruz

LEE-KLAWENDER, CYNTHIA (2000)
Computer Science
B.A., California State University, Los Angeles;
M.S., University of Southern California

LEONARD, AMY (2012)
English
B.A., San Jose State University;
M.A., San Francisco State University

LEW, ESTHER (2004)
Child Development Center
B.A., San Francisco State University

LEWIS, JULIE (2011)
African American Studies
B.A., San Francisco State University;
M.A., San Francisco State University

LEWYCKY, JONATHON (ROCKY) (2012)
Creative Arts
B.A., San Diego State University;
M.F.A., University of Southern Carolina

LIBOVA, OLGA (2006)
Nursing
B.S., University of Moscow;
M.S., State University of New York

LIEN, AMANDA (2015)
Mathematics
B.A., University of California, Berkeley;
M.S., California State University, East Bay

LILLY, BYRON (2000)
Business
B.A., M.A., MBA, University of California, Berkeley

LIMCOLIOC, LUIS (1996)
English/Composition
B.S., University of Notre Dame;
M.A., San Francisco State University

LISHA, SARAH (2013)
English
B.A., University of California, Santa Cruz;
M.A., San Francisco State University

LIU, HUA-FU (2007)
Mandarin
B.A., National Tsing Hua University;
M.S., Radford University

LIZZARDI-FOLLEY, CARMEN (2000)
Spanish
B.A., University of Puerto Rico;
M.A., Ph.D., Cornell University

LO, BERTRAND (2006)
Mathematics
B.A., University of California, Berkeley;
M.S., Harvard University

LOGVINENKO, VLADIMIR (2000)
Mathematics
B.A., M.S., University of the Ukraine;
Ph.D., Institute for Low Temperatures Physics and Engineering

LOPEZ, RICHARD (1998)
Mathematics
B.S., University of California, Davis;
M.A., California State University, Sacramento

LUCAS, WARREN R. (1991)
Dance
B.A., North Carolina School of Arts;
M.A., University of California, Los Angeles

LUNA, EDUARDO (1999)
Physics
B.S., M.S., California State University, Fresno

LUNA WOO, SHIREEN (2000)
Counseling
B.A., California State University, East Bay;
M.A., San Jose State University

MADRIGAL, LOUISEANN (2016)
Physical Education
B.A., California State University, East Bay;
M.A., California Polytechnic State University

MAGNIN, CHRISTINE (2008)
Special Education
B.S., Trenton State College;
M.A., San Jose State University

MAILHOT, JAMES (2011)
Mathematics
B.S., Stanford University;
M.S., Stanford University;
Ph.D., University of Washington

MALEK, NINOS (2014)
Economics
B.A., M.A., San Jose State University;
Ph.D., George Mason University

MALONE, BRIAN 2016
English
B.A., Harvard University;
M.A., University of Virginia;
Ph.D., University of California, Santa Cruz

MARAVILLA, DANICA 2016
Counseling
B.A., California State University, Northridge;
M.S., California Lutheran University

MARKUS, LISA (1998)
Mathematics
B.S., University of Sheffield;
M.S., Santa Clara University;
M.S., Ph.D., Vanderbilt University

MARQUEZ, KATHLEEN 2016
Counseling
B.A., M.S, San Francisco State University

MARQUEZ, MARCO (2013)
Graphic Design
B.A., Santa Clara University;
M.A., New York School of Visual Art

MARIN, MARIA (2002)
English as a Second Language
B.S., Biola University;
M.A., San Francisco State University

MATTIS, NICHOLAS (2010)
Physical Education
B.A., Saint Ambrose University;
M.S., Western Illinois University

MAYNARD, RICK (2004)
Automotive Technology
A.A., Chabot College

MCCART, MICHAEL (2010)
Automotive Technology
B.S., M.A., California State University, Fresno

MCCAULEY, BRIAN (1998)
Biology
B.A., University of California, Santa Cruz;
Ph.D., University of Hawaii

MCPARTLAN, ELIZABETH (1997)
Biology
B.A., M.S., San Francisco State University

MELAS, HEIDI (1993)
German
B.S., M.S., San Jose State University

MELLO, KEITH (2014)
Accounting
B.S., Santa Clara University, CPA

MELLO, KEVIN (2009)
Accounting
B.S., Santa Clara University;
MBA, Arizona State University

MESH, LISA 2016
Mathematics
B.S, St. Mary's College;
MBA, University of Notre Dame;
M.S., Southern Methodist University

MILLER, ANNA (2004)
Nutrition
B.S., University of California, Davis;
M.S., Pennsylvania State University

MIRAMONTES, MAUREEN (2012)
Nursing
A.A., Excelsior College

MISKIN, PREDRAG (PETER) (2013)
Nursing
B.S., University of British Columbia;
MA., University of Phoenix;
Ph.D., A.T. Still University

MJELDE, ELIZABETH (1993)
Creative Arts
M.S., University of California, Santa Barbara

MOEN, LORRAINE (2001)
Mathematics
B.A., California Polytechnic State University;
M.S., California State University, East Bay

MORALES, JORGE (2015)
Academic Services
B.A., University of California, Berkeley;
M.A., San Jose State University

MOSH, FARSHOD (2000)
Mathematics
M.S., University of Iran

MUJAL, CARLOS (2001)
History
B.S., University of California, San Francisco;
B.A., San Francisco State University;
M.A. University of California, Berkeley

MULLENS, TERRENCE 2016
Astronomy
B.A./B.S., California State University, Long Beach;
M.S., San Jose State University

MUZZI, CINZIA (2004)
Chemistry
B.S., B.A., Ph.D., University of California, Davis

MYHRE, JENNIFER (2000)
Sociology
M.A., Ph.D., University of California, Davis

NAVA, STEVE 2016
Sociology
B.A., M.S., University of Texas, San Antonio;
M.A., Ph.D., University of California, Santa Cruz

NEAL, VERONICA (2012)
Intercultural Studies
B.A., San Jose State University;
M.A., Ph.D., Mills College

NENGO, ISAIAH (2006)
Anthropology
B.A., Nairobi University;
M.A., Ph.D., Harvard University

NEWTON, DAVID (1987)
Physics
B.A., Sonoma State University;
B.A., M.S., San Francisco State University

NGUYEN, ANH KHOA 2017
Counseling/PSME
B.S., California Polytechnic State University;
M.A., Santa Clara Unversity

NGUYEN, HONG (TOM) (2012)
Biological, Health and Environmental Sciences
B.A., University of California, Berkeley;
M.A., St. Mary's College

NGUYEN, JAMES (2013)
Political Science
B.A., University of California, Berkeley;
J.D., Santa Clara University

NGUYEN, UYEN (CLARE) (1999)
Computer Information Systems
B.S., M.S., University of California, Davis

NICKEL, DONALD (2001)
Counseling
B.A., M.A., San Jose State University

NICKLAS, HANNAH (2014)
Nursing
A.A., Brigham Young University;
M.S., Walden University

NJINIMBAM, EDWIN N. (1991)
Mathematics
B.S., Cuttington University;
M.S., Georgia Technical College

NORMAN, CRAIG (2007)
English as a Second Language
B.A., California Lutheran University;
M.A., San Francisco State University;
Ph.D., San Diego State University

OHTAKE, MOTOSUKE (2006)
Art
B.F.A., Nihon University, College of Arts;
B.F.A., Academy of Art College;
M.F.A., San Francisco Art Institute

OLDHAM, IRA (1999)
Computer Information Systems
B.A., M.A., Oklahoma University;
M.S.; Ph.D., Carnegie Mellon University

O'NEILL, PATRICIA (1990)
Nursing
B.S., Montana State University;
M.S., University of California, San Francisco

OSBORNE, SCOTT (2004)
Accounting
B.A., University of California, Berkeley;
MBA, Golden Gate University

OWIESNY, CHERYL (1999)
Physical Education
B.A., California State University, Chico;
M.A., San Jose State University

PACHECO, RACHEL (2007)
Physical Education
B.S., M.S., Virginia Polytechnic Institute and State University

PALMORE, KIM (2012)
English
B.A., M.A., California State University, Long Beach;
Ph.D., University of California, Riverside

PANG, HELEN 2016
Counseling
B.A., B.S., University of California, San Diego;
M.S., San Francisco State University

PAPE, MARY (1998)
Computer Science
B.S., Santa Clara University;
MBA, Capella University

PARRISH, JENNIFER (2015)
Computer Science
B.A., Santa Clara University, MBA, Monterey Institute of International Studies;
M.S., University of California, Santa Cruz

PESANO, JULIE (2005)
English
B.A., M.A., University of Florida

PHILLIPS, KASSIE (2016)
Academic Services
B.S., M.S.W., California State University, East Bay

PIERCE, DIANE (2000)
Photography
B.A., San Francisco State University;
M.F.A., Mills College

PIERRE, ADRIENNE (1999)
Counseling
B.S., M.A., San Jose State University

POLIZZOTTO, JOSEPH 2016
HTCTU
B.A., University of California, Santa Cruz;
M.A., San Jose State University

QUIGLEY, JILL (2002)
English
B.A., William Smith College;
M.A., Boston College

QUINN, ROSEANNE (2010)
English
B.A, University of California, Davis;
M.A., Sussex University;
Ph.D., University of Iowa

QUINTERO, JESUS (2007)
English
B.A., San Francisco State University;
M.F.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

RASHID, NAHRIN 2016
Mathematics
B.S., California State University, Stanislaus;
M.S., California State University, East Bay

REBER, MARIETTA (2002)
English
B.A., M.A., Brigham Young University

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

ROEDER, WILLIAM 2016
Environmental Studies
B.S., California State University, Chico

RUEDA, MELISSA 2017
Counseling/PSME
B.S., Santa Clara University;
M.A., San Jose State University

SALAH, DAN (2001)
Business
B.A, University of California, Berkeley;
MBA, University of Pennsylvania

SARTWELL, JULIE (2000)
English
B.A., California Polytechnic State University;
M.A. San Francisco State University

SCHAFFER, KARL (1989)
Mathematics
B.S., University of Alabama;
M.A., Ph.D., University of California, Santa Cruz

SHEIRICH, MONICA (1997)
Vocational/Special Education
B.A., M.A., San Francisco State University

SHERBY, MARK (1996)
Computer Science
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;
M.S., Michigan State University, East Lansing;
Ph.D., University of California, Davis

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, East Bay

SINGH, RAVJEET (2011)
Economics
B.A., M.A., University of Delhi;
Ph.D., Jawaharial Nehru University

SINGH, SUKHJIT (2001)
Computer Science
B.S., M.S., California State University, East Bay;
M.S., Carnegie Mellon University

SKAGER, KRISTIN (1999)
Reading
B.A., Humboldt State University;
M.A., San Francisco State University

SPANGGORD, DORIS (1996)
Biology
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, East Bay

STAUDINGER, JEFFERY (2010)
Environmental Studies
B.S., Virginia Polytechnic Institute and State University;
M.S., Stanford University;
M.S., University of Michigan

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

STODDARD, ANDREW 2016
Manufacturing
A.S., De Anza College

SUITS, JAMES (2013)
Administration of Justice
B.A., San Jose State University;
M.P.A, Golden Gate 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

SUZARA, AIMEE 2016
English
B.A., University of California, Berkeley;
MFA, Mills College

SWANNER, ALEXANDER (2006)
Library
B.A., University of California, Santa Cruz;
M.L.S., San Jose State University

TAPIA, MARISTELLA (2004)
Sociology
M.A., University of California, Berkeley

TAVERNETTI, SUSAN (2001)
Film
B.A., University of the Pacific;
M.A., University of Southern California

TAYLOR, RODERIC 2016
Mathematics
B.A., University of California, Santa Cruz;
M.S., University of California, Berkeley

TEPPANG, NOEMI (2016)
Counseling/Academic Services
B.A., M.S.W., San Jose State University

THOMAS, MONIKA (2012)
Economics
B.A., M.A., University of California, Santa Cruz

TIWANA, AMEETA (2004)
Anthropology
M.A., Ph.D., Southern Illinois University

TRACEY, IVA (2015)
English as a Second Language
M.A., University of Presov

TRAN, DANNY (2011)
Mathematics
B.A., University of California, Berkeley;
M.E., Harvard University

VARGAS, NELLIE (2007)
Child Development
B.S., Catholic University;
M.S., University of Wisconsin;
Ed.D, Argosy University

VERNAZZA, LAWRENCE (PETE) (1998)
Automotive Technology
A.A., De Anza College

VINALL, KIMBERLY (2015)
B.A., Indiana University
M.A., University of Arizona;
Ph.D., University of California, Berkeley

VON MATT, DANIELLE (2010)
Physical Education
B.A., University of Redlands;
M.A., California State University, San Bernadino

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

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

WILSON, JULIE 2016
Reading
B.A., University of California, Berkeley;
M.Ed., Howard University;
Ph.D., Stanford University

WISHART, WILLIAM 2016
Automotive Technology
B.A., California State University, Chico

WONG, LETTY (1992)
English as a Second Language
A.A., San Francisco City College;
B.A., M.A., San Francisco State University

WOODBURY, ERIK (2012)
Chemistry
B.A., Bowdoin College;
Ph.D., University of California, Davis

YEE, LINDA (2007)
English as a Second Language
B.A., M.A., University of California, Los Angeles

YEN, ANN LEE (1989)
Child Development Center
M.S., Oregon State University

YOES, SUSAN (2000)
Reading
B.A., University of San Francisco;
M.A., San Francisco State University

ADMINISTRATORS/EMERITI FACULTY AND ADMINISTRATORS

ADMINISTRATORS

BLISS, SAM (2016)
Dean, Community Education
B.A., Princeton University;
M.A., Santa Clara University

CAMPBELL, YVETTE (2016)
Director, STEM Success Program
B.A., M.S., San Francisco State University;
Ph.D., University of California, Santa Cruz

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

CHEU, SUSAN (2014)
Vice President, Finance and College Operations
B.S., University of California, Davis;
M.S., San Jose State University

COOK, STACEY A. (2010)
Vice President, Student Services
B.A., University of California, Berkeley;
M.P.A., California State University, East Bay;
Ed.D., University of San Francisco

DASILVA, EMANUEL (2007)
Manager, Operations
B.S., Palo Alto University

DIETRICH, GAEIR
Director, High Tech Center Training Unit
B.A., San Jose State University

ESPINOSA-PIEB, CHRISTINA (1982)
Vice President, Instruction
B.S., University of Phoenix;
M.A., University of San Francisco

FAYEK, MOATY (2012)
Dean, Business, Computer Science and Applied Technologies
B.A., Cairo University;
M.S., California State University, Chico

GANNON, PATRICK (2002)
Director, Campus Center
Culinary Degree, Hospitality and Administration, Dublin College of Catering;
B.S., Palo Alto University

GREY, PAM (2016)
Associate Vice President, College Operations
B.P.A., University of San Francisco;
MBA, Presidio Graduate School

HARADA, NAOKO (2007)
Director, Child Development Center
B.A., University of the Sacred Heart;
M.A., San Francisco State University

LEBLEU-BURNS, MICHELE (2007)
Dean, Student Development and EOPS
B.A., San Jose State University;
M.A., Santa Clara University

LEE-WHEAT, COLEEN (1990)
Dean, Physical Education and Athletics
B.S., University of California, Los Angeles;
M.S., California State University, East Bay

MANDY, LISA (2013)
Director of Financial Aid and Scholarships
B.S., American Intercontinental University

MIESO, ROB (1994)
Associate Vice President, Student Services
B.A., National University;
M.A., Ed.D., Fielding Graduate University

MURPHY, BRIAN (2004)
President
B.A., Williams College;
M.A., Ph.D., University of California, Berkeley

MUTHYALA-KANDULA, ANITA (2011)
Dean, Biological, Health and Environmental Sciences
M.D., Gandhi Medical College

NORTE, EDMUNDO (2010)
Dean, Intercultural/International Studies
B.A., University of California, Irvine;
Ed. M., Harvard University

LORRIE RANCK (2014)
Associate Vice President, Instruction
B.A., University of Wyoming;
M.A., University of San Francisco

RAY, THOMAS (2010)
Dean, Language Arts
B.A., University of Minnesota;
M.F.A., Louisiana State University;
Ph.D., University of Nebraska

ROSENBERG, JERRY
Dean, Physical Sciences, Mathematics and Engineering
B.A., B.S., Rutgers University;
M.S., University of Washington

SHEARS, STACEY (2014)
Dean, Disability Support Programs and Services
B.A., City College of New York;
M.S., University of Rhode Island;
Ed.D., San Francisco State University

SPATAFORE, MARISA (2006)
Associate Vice President, Communications and External Relations
B.S., West Virginia University;
M.A., San Francisco State University

SWANSON, KELLY (2013)
Director, Bookstore
A.A., Fresno City College

VARELA, MARTIN (2017)
Director (Interim), Budget and Personnel
B.A., Menlo College

VILLALBA, KAREN ARLENE (2006)
Assistant Director, Child Development Center
A.A., De Anza College;
B.A., Pacific Oaks College

WARD, TAMICA (2015)
Dean, Enrollment Services
B.S., University of San Francisco;
MBA, University of Phoenix

WATSON, BRET (2012)
Director, Budget and Personnel
B.S., California Polytechnic State; University

WHITE-DANIELS, SHEILA (2015)
Dean, Counseling and Student Success
A.A., Prince George's Community College;
B.S., Golden Gate University;
MBA, Golden Gate University;
Ed.D., University of the Pacific

WILKINS-GREENE, CAROLYN (1989)
Dean, Social Sciences and Humanities
B.Mus., University of Texas, Austin;
M.A., Stanford University

EMERITI FACULTY AND ADMINISTRATORS

ADAMY, GEORGEANNE (1989-2002)
Nursing
B.S., Arizona State University;
M.S., University of Maryland

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

ATENCIO, DAN (2007-2016)
Physical Education/ Head Football Coach
B.A., M.A., San Francisco State University

AVERY, CHRIS (1966-2002)
Mathematics
A.A., College of Marin;
B.A., M.S., San Jose State University

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

BARNEY, DAVID M. (1989-2011)
Film/TV
B.A., University of Delaware;
M.Ed., University of Hawaii

BARTUNEK, CAROL R. (1975-1998)
Religious Studies
A.A., Foothill College;
B.A., San Jose State University;
M.Div., American Baptist Seminary

BEGGS, THOMAS W. (1981-2017)
Physical Education; Adaptive Physical Education
A.A., De Anza College;
B.S., M.A., San Jose State University;
Ed.D., University of San Francisco

BERRY, FRANK W. (1969-2002)
English
A.B., University of Michigan;
M.A., San Francisco State University

BLINICK, CARON S. (1981-2014)
Dean, Community Education and Older Adult Studies
B.A., University of Illinois, Dekalb;
M.A., University of Wisconsin, Madison

BOGUS, S. DIANE (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

BRANDT, MICHAEL (1975-2016)
Automotive Technology
A.A., De Anza College

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

BRUCH, SUSAN (1990-2012)
Nursing/Biology
B.S., San Jose State University;
M.S., University of California, San Francisco

BUCHANAN, ANGELA (1990-2016)
Social Sciences
B.A., Oberlin College;
M.A., Ohio State University;
M.A., Ph.D., Stanford University

BULL, MICHAEL A. (1976-2011)
Economics
A.A., Los Angeles Valley College;
B.A., M.A., San Jose State University

BURKE, LAWRENCE J. (1989-2011)
Social Sciences and Humanities
B.A., Aquinas Institute;
M.A., St Xavier College;
Ph.D., University of New Mexico

BURLING, EDWIN (1968-2002)
Biology
B.A., University of California, Santa Barbara;
M.A., Dartmouth College

CABALLERO DE CORDERO, ANGELA (2011-2017)
Dean, Counseling
M.S.W., California State University, Fresno;
Ph.D. Education, University of California, Santa Barbara

CALGHER, PAUL F. (1966-2013)
Chemistry
Ph.D., University of California, San Francisco

CAMPBELL, DAVE (1998-2005)
Accounting
B.S., La Salle College;
MBA, San Jose State University;
Ph.D., La Salle University

CANTRELL, JOSEPH E. (1984-1997)
Business
B.S., Oklahoma State University;
MBA, Stanford University

CASTANO, WILFREDO Q. (1989-2017)
Photography
B.F.A., San Francisco Art Institute;
M.A., San Francisco State University

CASTILLO, CINDY (1977-2012)
Director, Financial Aid and Scholarships
B.A., San Jose State University

CENTANNI, DEBORAH (2007-2017)
Special Education
B.A., St. Mary's College;
M.A., San Jose State 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;
Ph.D., United States International University

CHAN, SUSANNE W. (1977-2013)
Counseling
B.A., University of Maryland;
M.S., Ed.S., State University of New York

CHEESEMAN, DOUGLAS T. (1967-1997)
Biology
B.A., M.A., San Jose State University

CHENOWETH, WAYNE (1990-2015)
Special Education
B.A., M.A., California State University, Chico

CHESLER, PAUL B. (1977-2006)
Social Sciences
B.S., University of Wisconsin;
M.A., San Jose State University, Education

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

CLAVIJO, JUDITH (1992-2017)
Nursing
B.S., University of Rosario;
M.S., University of Michigan

CLEAVELAND, CORRINE (1975-2013)
Child Development Center
B.A., University of California, Davis

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

COGNETTA, JOHN S. (1989)
Student Activities
B.A., University of California, Berkeley;
M.S., University of Oregon;
Ed.D., University of San Francisco

COLE, MICHAEL (1989-2013)
Design/Computer Graphics
B.A., California State University, Northridge;
M.A., University of California, Los Angeles

COLEMAN, JUDY C. (1989-2012)
Counseling
A.A., De Anza College;
B.A., University of California, Berkeley;
M.A., Santa Clara University

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

COOPER, MICHAEL J. (1969-2004)
Art
B.A., M.A., San Jose State University;
M.F.A., University of California, Berkeley

CORDERO, JUANITA (2000-2011)
Child Development
B.A., Holy Names;
M.A., Pacific Oaks;
M.A., Ph.D., Global Ministry University

CRAMPTON, CHARLES L. (1959-1989)
Physical Education
B.A., M.A., San Jose State University

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

DICKERSON, ROBERT C. (1989-2014)
English/Composition
B.A., University of Texas;
M.A., Memphis State University

DOMINGUEZ, ALFRED (2007-2015)
Counseling
B.A., University of California, Berkeley;
M.P.A., California State University, East Bay;
M.A., San Jose State 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

DUNIVIN, J. D. (1964-1999)
Sociology
B.A., M.A., 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;
MBA, Xavier University

ENGLE, MICHAEL L. (1975-2008)
Machine Tools
A.A., San Mateo College; Journeyman Tool and Die Maker; Credential, University of California, Berkeley

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

FARRINGTON, ROBERT P. (1981-2014)
Music
B.A., University of California, Los Angeles;
M.A., California State University, East Bay

FINK, BARBARA (1975-2011)
Mathematics
B.S., City College of New York;
M.S., Stanford University

FINSTON, GLORIA (1975-2001)
Learning Disabilities Specialist
B.A., Earlham College;
M.A., Santa Clara University

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

FORMAN, JEFFREY W. (1978-2014)
Adaptive Physical Education
B.S., Med., Springfield College, Massachusetts;
Ph.D., United States International 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 Junior College;
B.A., Eastern Kentucky State Teachers College;
M.S., San Jose State University

FRIESEN, JOAN (1999-2014)
Learning Disabilities
B.A., San Jose State University;
M.A., Santa Clara University;
M.A., Santa Clara 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

GEISINGER, JR., WILLIAM L. (1978-2012)
Creative Arts
A.A., San Joaquin Delta College;
B.A., M.A., San Jose State University

GILBERG, RICHARD F. (1991-2001)
Computer Information Systems
B.A., San Jose State University;
M.S., National University

GOESLING, WENDELL J. (1975-2012)
Psychology
A.A., Bakersfield Jr. College;
A.B., Fresno State College;
Ph.D., University of Tennessee

GOLDSBERRY, JAMES (1970-1999)
English
B.A., M.A., San Diego State University

GRACIA, JORGE E. (1974-2012)
Spanish
A.A., Laredo Junior College, Texas;
B.A., Texas A. and I. University;
M.Ed., M.A.T., Stanford University

GRAHAM, DONALD (1963-1999)
Geography
A.A., Glendale College;
B.S., M.S., University of Oregon

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

GROBMAN, BETH A. (1987-2011)
Journalism/Mass Communication
B.A., Pitzer College;
M.A., St. Louis University

GUEVARA, JORGE (1979-2014)
A.A., De Anza College;
B.A., M.A., San Jose State University

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;
M.S., Ph.D., New York University

HAMES, JOANNE (1989-2004)
Paralegal/Administration of Justice
B.A., J.D., Santa Clara University

HANLEY, JAMES R. (1973-2004)
Political Science
B.A., M.A., San Jose State University

HANNA, CASSIE (2006-2014)
Nursing
B.S., Michigan State University;
M.S., University of San Francisco

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

EMERITI FACULTY AND ADMINISTRATORS

HART, THOMAS A. **(1973-1988)**
Music
B.A., M.A., San Francisco State University

HASSEL, PATRICIA L. **(1969-2012)**
Medical Assisting/Health Technologies
B.S., The University of Phoenix;
R.N., Montreal General Hospital

HAYNES, JAMES H. **(1976-2014)**
Adaptive Physical Education
A.A., West Valley College;
B.S., M.A., San Jose State University

HECTOR, JANICE **(1994-2017)**
Mathematics
B.S., M.A., University of California, Davis;
MBA, Pace University

HEFFNER, SCOTT C. **(1976-2012)**
Political Science
B.A., San Jose State University;
M.A., Santa Clara University;
M.A., San Jose State University

HELFMAN, SUZANNE **(2002-2015)**
English
B.A., M.A., San Francisco State University

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

HERMAN, SONDRA R. **(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;
M.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;
M.A., Stanford University

HOWARD, CAROL M. **(1968-1997)**
Counseling
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

IFFT, MARY ANN **(2000-2013)**
English as a Second Language
M.A., San Francisco State University

JEANPIERRE, LETHA L. W. **(1987-2014)**
Vice President, Finance and College Operations
B.S., MBA, University of Colorado

JENNINGS, VICKIE **(2002-2013)**
Biology/Environmental Studies
B.A., M.A., San Jose State University

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

JONES, RUTH **(1983-2012)**
Child Development Center
B.A., San Jose State University

JONES-DULIN, DONNA **(2001-2016)**
Associate Vice President, Finance and College Operations
B.A., American University;
M.A., San Francisco State University

JURIKA, LILLIAN U. **(1978-1999)**
Counselor
B.A., University of San Diego;
M.A., Stanford University, English;
M.A. San Jose State Univsersity, Counseling; San Jose State University Certificate, Applied Social Gerontology

KARST, LAURA **(2001-2017)**
French
B.A., University of California, Santa Cruz;
M.A., San Jose State University

KELLER, INGRID **(1963-1992)**
German
A.A., Pasadena City College;
B.A., Occidental College;
M.A., Stanford University

KENDALL, SHIRLEY **(1995-2007)**
Professional and 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 University, Pomona

KODA, ANN Y. **(1986-2001)**
Computer Applications and Office Systems
B.A., University of California, Berkeley;
M.A., San Jose State University

KOVACH-LONG, SANDRA **(1976-2017)**
Special Education
A.A., Riverside City Junior College;
B.S., M.S., San Jose State University

LAMIT, LOUIS G. **(1984-2013)**
Computer Assisted Drafting Program
B.S., Western Michigan University

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;
MBA, Long Island University;
M.A., Teacher's College, Columbia University;
Ed.D., University of California, Berkeley

LEE, ELAINE **(1991-2017)**
Speech
B.A., M.A., University of Hawaii

LEIGH, ROBERT J. **(1972-2003)**
Automotive Technology
B.A., M.A., San Francisco State University

LEE-YEN, ANN **(1988-2012)**
Child Development Center
B.A., Taiwan University;
M.A., University of Oregon

LESKINEN, ANNE L. **(1985-2011)**
Mathematics
B.A., M.A., University of Western Ontario

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

LISHA, ZAKI **(1974-2013)**
Film/TV
B.A., University of Southern California;
M.A., San Francisco State University

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

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

LYNCH, JOHN **(2005-2011)**
Business
B.S., University of Mississippi;
MBA, Harvard University

MACDONALD, JAMES D. **(1964-1993)**
Chemistry
B.S., University of Colorado;
M.S., San Jose State University

MACK, ROGER W. **(1977-2012)**
Economics
B.A., M.A., San Francisco State University;
Ph.D. Syracuse University

MAIERO, MARCIA SMITH **(1990-2014)**
Physical Education
B.A., California State University, Chico;
M.S., California State University, East Bay

MANRIQUEZ, NAPOLEON H. **(1977-2006)**
Director, Assessment Center
B.A., San Jose State University;
M.A., Ph.D. Stanford University

MATHIOS, DIANE **(1996-2016)**
Mathematics
B.A., M.A., University of California, Berkeley

MAZZUCA, ROBERT G. **(1981-2001)**
Physical Education
B.A., College of the Pacific;
M.A., University of the Pacific

MCCARTHY, JAMES **(1976-2007)**
Dean, Library
B.A., California State University, San Bernardino;
M.S., University of Southern California

MCDONNELL, BARBARA **(1975-1991)**
Early Childhood Education
B.A., M.A., San Jose State University

MCNAMARA, MARTIN **(1996-2017)**
Animation
B.A., University of Notre Dame;
M.A., San Francisco State University

MENÉNDEZ, JOSE F. **(1985-2016)**
Director, Printing Services
A.A., College of San Mateo

MILONAS, FAITH E. **(1986-2013)**
Counselor
B.A., Westfield State College;
M.S., State University of New York;
Ed.D., University of Nevada

MILTON, JOHN **(1970-2005)**
English
B.A., M.A., San Francisco State University

MITCHELL, G. DAN **(1989-2017)**
Music Theory and Composition
B.A., M.A., San Jose State University

MITCHELL, GLORIA **(1976-2004)**
Psychology
A.A., Foothill College;
B.A., San Jose State University;
M.A., Santa Clara University

MOLANDER, MARK L. **(1968-2003)**
English
B.A., M.A., Colorado State College

MOORE, THOMAS O. **(1966-1998)**
Mathematics
B.S.E.E., University of California;
M.A., San Francisco State University

MORENO, M. CRISTINA **(1991-2010)**
Spanish
B.A., M.A, M.S., Indiana University

MORENO, MOSES S. **(1972-1993)**
Chicano Studies
A.A., Chaffey College;
B.A., M.A., Stanford University

MORENO, VICTORIA **(1999)**
Counselor
B.A., San Jose State University;
M.A., San Jose State University

MOSTYN, CHARLES R. **(1966-1986)**
Business
B.S., Armstrong Business College;
B.A., Humboldt State University;
M.A., San Jose State University

MOWREY, JUDITH M. **(1986-2010)**
Library
B.A., Oklahoma Baptist University;
M.A., San Francisco State University;
M.L.S., University of Oregon

MUHLSTEIN, ELEANOR A. **(1983-2002)**
Teacher, Child Care Program
B.A., San Jose State University

MULLEN, WILLIAM **(1972-1999)**
Automotive Technology
B.A., University of Denver

NAGEL, WILLIAM (2002-2012)
Graphic Design
B.A., San Jose State University

NAKASHIMA, WENDY (1982-1997)
Child Development Center
B.S., Miami University;
M.S., Case-Western Reserve 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

NELSON, ALICE (1987-2004)
Computer Applications and Office Systems
A.A., Canada College;
B.A., MBA, San Francisco State University

NELSON, SHARON S. (1976-2003)
Hope-De Anza Vocational Program
B.A., Augustana College

NICHOLS, BARBARA (1977-1990)
Older Adult Services
A.A., Foothill College;
B.A., San Jose State University;
M.A., Santa Clara University

NIELSEN, M. LANCE (1975-2006)
A.A., Diablo Valley Junior College;
B.S., California State University, East Bay;
M.A., San Jose State University

NORRIS, MARCIA (1991-2001)
High Tech Center Training Unit
B.A., University of Alabama;
M.A., English, M.A., Education, San Jose State University

NUNES, ANTHONY J. (1966-1992)
Physical Education
A.A., College of the Sequoias;
B.S., M.S., California State Polytechnic College

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

ODLE, CHARLES R. (1965-1999)
Mathematics
B.A., Fresno State University;
M.A.T., San Diego State University

O'DONNELL, DANIEL J. (1968-1995)
Computer Information Systems
B.S.C., MBA, University of Santa Clara

OLEJNICZAK, PAUL (2000-2016)
Meteorology/Astronomy
B.S., M.S., Duquesne University

ONEY, ANNE W. (1985-1999)
Dean, Business and Compute Science Division
B.A., Cornell University;
M.A., San Jose State

PABON, TONY (1981-1997)
Mathematics
A.B., M.S., California State University, Los Angeles

PARKER, GERALDINE (1993-2013)
Native American Studies
B.A., California State University, East Bay

PATTERSON, NORMA (1971-1986)
Nursing
B.S., University of Oregon;
M.S., University of California

PATTON, MARILYN (1991-2013)
English/Composition
B.A., Stanford University;
M.A., Ph.D., University of California, Santa Cruz

PEARCE, KIMBERLY A. (1987-2013)
Speech Communication
B.A., Azusa Pacific University;
M.A., San Jose State University

PECORARO, SALVATORE P. (1968-1997)
Art
A.B.Ed., California College of Arts and Crafts;
M.A., San Francisco State University

PERATA, DONALD A. (1966-1996)
Vice President, Student Services;
Interim Chancellor
B.A., M.A., San Jose State University

PERRY, JOHN W. (1989-2011)
Computer Information Systems
B.A., University of Delaware;
M.C., M.S., Arizona State University

PETERSON, DENNIS E. (1968-1997)
Biology
Division Dean, Biological and Health Sciences (acting)
B.A., M.S., Brigham Young University

PEURIFOY, BARBARA (2006-2011)
Nursing
B.S., California State University, Dominiguez Hills;
M.S., University of Phoenix

PHILLIPS, JULIE (1993-2015)
Morgan Family Endowed Chair in Environmental Studies/Instructor Biological Sciences
B.A., California State University, Chico;
M.A., San Jose State University

PHILLIPS-PROUTY, BARBARA J. (1964-1993)
Counseling, Physical Education
B.S., Wheaton College;
M.A., Colorado State College

PICHON, ULYSSES A. (1975-2009)
English/Reading
B.S., Xavier University of Louisiana;
M.A., San Jose State University

PIFFERINI, ROBERT M. (1959-1990)
Physical Education
B.A., M.A., San Jose State University

PLUM, KATHRYN S. (1989-2015)
Mathematics
B.S., Montana State University;
M.S.I.E., M.S.Q.A., San Jose State University

POGGI, CLAUDINE (1989-2012)
English as a Second Language, Linguistics and Writing
B.A., City University of New York;
M.A., San Francisco State University;
M.A., University of Hawaii

POKLEWSKI DABROWSKA, ANNA (1977-2013)
Music
B.A., Myceum-Music,;
M.A., Yagellonian University;
L.R.A.M., Royal Academy of Music

POTTER, LEROY C. (1965-1993)
Engineering
B.S., Drexel Institute of Technology;
M.S., Stanford University

PRITCHARD, WILLIE (2006-2008)
Academic Coordinator
B.A., Duke University;
M.A., Antioch University

QUARATO, PATRICIA S. (1992-2008)
Biology
B.S., Virginia Commonwealth University/Medical College;
M.S., University of Southern California

QUENON, LOUISE (1970-1998)
Biology
B.A., University of California, Berkeley;
M.A., University of Wisconsin

QUIRKE, LILLIAN M. (1964-1988)
Art
B.S., Southern Connecticut State College;
M.A., California State University, Long Beach;
Ed.D., Teacher's College, Columbia University

RAFF, MARGO I. (1980)
Counseling
B.A., University of Florida;
M.A., Michigan State University;
M.A., University of San Francisco

RAMIREZ, OSCAR (1973-1993)
Vice President, Administrative Services
B.A., M.A., California State University, Fresno;
Ph.D., United States International 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

RASHALL, BENITA (1977-2008)
Physically Limited Counselor/Enabler
B.S., University of California, Berkeley;
M.S., San Francisco State University

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

REID, BARBARA (1977-1989)
Vice President, Instruction
B.A., State University of Iowa;
M.A., Ed.D., University of Northern Colorado

RESSA, GARY (1967-1997)
Counseling
B.S., San Jose State University;
M.A., Stanford University

REZA, JACQUELYN VALERIE (1985-2015)
Staff and Organizational Development
B.A., M.S.S., San Francisco State University;
B.S., Ahmadu Bello University;
Ed.D., University of San Francisco

RIESE, TED (1969-1999)
English
B.A., University of California, Berkeley;
M.A., San Francisco State University

RICE, GEORGE A. (1975-2004)
Computer Information Systems
B.S., Stanford University

ROSSI, DONALD E. (1969-2000)
Mathematics
A.B., University of California, Berkeley;
Ed.M., Harvard University;
M.A., University of California, Berkeley

ROWE, JAMES K. (1968-1996)
Counselor
A.B., Occidental College;
M.A., Stanford University

SANDELMAN, PEARL B. (1975-1992)
Business
B.A., M.A., San Jose State University

SCHAFER-BRAUN, DEBI (1976-2014)
Physical Education
B.S., M.S., California State University, East Bay

SCHROEDER, RICHARD V. (1984-2012)
Dean, Physical Education and Athletics
B.A., University of California, Berkeley;
M.A., San Jose State University

SCHWOOB, LESLIE A. (1967-2003)
Automotive Technology
B.A., M.A., San Francisco State University

SCOTT, DANIEL R. (1970-2001)
English
B.S., M.A., Brigham Young University

SEKHON, RUPINDER S. (1985-2014)
Mathematics
B.S., University of San Francisco;
M.A., San Francisco State University

SETZIOL, PAUL L. (1981-2017)
Music
B.M., M.M., D.M.A., University of Oregon

SHROPE, C. WAYNE (1964-1991)
Speech
A.A., Placer Junior College;
B.A., M.A., Sacramento State University

SKYLES, WILLIAM V. (1962-1989)
English
B.A., De Paul University;
M.A., University of Chicago

SMITH, ELEANOR A. (1968-1989)
Counselor
A.A., Green Mountain College;
B.S., University of New Hampshire;
M.S., University of Colorado

SMITH, WENDY (1989-2004)
Child Development Center
B.S., Pennsylvania State University;
M.Ed., University of Pittsburgh

SOLER, FRANCISCO DE P. (1985-2011)
Mathematics
B.S., University of New Mexico;
M.S., University of Oklahoma

SPENCER, LEROY G. (1975-2000)
Automotive Technology

SPENCER, WILLIAM A. (1976-2001)
Language Arts
B.S., Louisiana Southern University;
M.A., San Francisco State University

SPLITTER, RANDOLPH N. (1989-2011)
English/Composition
B.A., Hamilton College;
B.A., University of California, Santa Cruz;
Ph.D., University of California, Berkeley

STANN, SUSAN S. (1988-2007)
English as a Second Language
TESOL Certificate - Linguistics, San Jose State University;
B.A., M.A., University of Michigan

STASIO, DONNA D. (1985-2016)
Speech Communication
A.A., Columbia Junior College;
B.A., Stanislaus State College;
M.A., Washington State University

STEMLER, ANN B. (1977-2004)
Biology
B.S., M.S., Ph.D., University of Illinois

STEPHENS, CHARLES L. (1964-1986)
Physics
B.A., Occidental College;
M.A., Stanford University

STERN, DEBORAH R. (1986-2008)
B.A., University of California, Berkeley;
M.S., California State University, San Francisco

STERNLIEB, MYRA B. (1975-1999)
Nursing/Health
R.N., B.S.N., Ohio State University;
M.S., San Francisco State University

EMERITI FACULTY AND ADMINISTRATORS

STEVENS, MARGARET L. (1992-2016)
History
A.A., De Anza College;
B.A., University of California, Berkeley;
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

STOLL, EDWINA L. (1986-2009)
Speech/Communication
B.A., Linfield College;
M.A., University of Hawaii;
Ph.D., University of Utah

STRAUSS, RAYMOND C. (1961-1985)
Mathematics
B.S., M.S., University of Chicago

STRINGER, DAVID D. (1981-2011)
Business
B.S., San Jose State University;
MBA, Golden Gate University, San Francisco

STURM, J. BRUCE (1976-2000)
English
B.A., Villanova University;
M.A., Stanford University;
M.A., Santa Clara University

SULLIVAN, KRISTIN (2002-2017)
Environmental Studies
B.S., M.S., San Jose 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

SULLIVAN, NELL D. (1970-1993)
English
B.A., M.A., University of California, Berkeley

SWENSSON, JOHN (1989-2012)
English
B.A., U.S. Military Academy, West Point;
B.A., University of Northern Colorado;
M.A., University of Virginia

TACANG, LEROY J. (1972-2004)
Art
B.A., M.A., San Jose State University

TAKAHASHI, JANET (1974-2014)
Learning Disabilities
B.A., Mills College;
M.A., San Francisco 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

TONG, HOMER H. C. (1977-2017)
Chemistry
B.A., California State University, Chico;
M.S. Oregon State University

TOOTHMAN, GARY L. (1978-2001)
Automotive Technology
B.A., Indiana State University;
M.A., San Jose State University

TORRES, LAUREL (1996-2013)
Counseling
R.N., A.D.N., College of San Mateo;
B.A., University of California, Davis;
M.S., California State University

TRAVIS, BARBARA B. (1977-1995)
Associate Director, Reading Skills, Readiness Lab
B.A., Edinboro State College;
M.A., 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

TURNER, WILLIAM (1998-2011)
Reading
B.A., M.A., California Polytechnic State University

VACIO, ALEJANDRO V. (1991-2001)
Physical Education/Athletic Director
B.A., San Jose State University;
M.S., California Polytechnic 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, DEBORAH (2003-2013)
Medical Technology
B.S., University of Iowa

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, Physical Education
B.S., State University of New York, Cortland;
M.S., Washington State University;
Ph.D., Florida State University, Tallahassee

WASSMAN, ROSE MARIE M. (1971-1997)
English, Reading Improvement
B.A., M.A., Wayne State University

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

WEST, LINDA (1985-2013)
Business Office Technology
B.S., M.A., San Jose 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

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

WINTERS, MARION (1990-2009)
Diversity Office/Intercultural/International Studies
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;
MBA, San Jose State University

WOOD, RICHARD (1996-2008)
Sociology
B.A., M.A., West Virginia University

WOOD, SARAH D. (1989-1999)
Reading
B.A., Stanford University;
M.A., Yale University

WOODWARD, CHERYL (1986-2015)
Counseling
B.A., M.A., San Jose State 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

YASUDA, PHYLLIS S. (1974-1998)
Business
B.A., M.A., San Jose State University

YECKLEY, PAULINE (1986-2015)
Library
B.A., M.A., Michigan State University;
M.A., University of Michigan

ZARECKY, GARY (1983-2015)
Physical Education
B.A., California State University, Chico;
M.A., Azusa Pacific University

CLASSIFIED STAFF

ABAD, SOFIA (1989)
Occupational Training Institute

ABBRUSCATO, JOHN (1987)
Educational Technology Services

AGEE, DORIS FERRIS (2005)
Health Services

AGUILAR, LENNY A. (2005)
Adapted Physical Education

AGUILAR, MELISSA (2010)
Language Arts

ALAMBAN, CARLITA (1990)
Occupational Training Institute

ALDERETE, CONCEPCION (1999)
College Operations

ANTHONY, RYAN (1998)
Educational Technology Services

APARICIO, VERONICA (2008)
Admissions and Records

APPARAO, VENKATARAM (2016)
Automotive Technology

ARELLANO, TONY (2010)
College Operations

ARAUJO, KIARA (2017)
Admissions and Records

ARGABRITE, DIANA (2001)
Euphrat Museum of Art

ARMSTRONG, DEBORAH (2002)
Disabled Student Programs and Services

AVILA-CORTES, RENE (1997)
Utilities

AYERS, BILL (1986)
Educational Technology Services

BAEZ-ACEVEDO, MIGUEL (1991)
Operations

BAILEY, BRANDON (2016)
Communications

BAKER, AARON (2017)
Sculpture

BALUTA, RENEE (2015)
Admissions and Records

BARRON, MARITZA (2014)
Child Development Center

BAZAN, EDWARD (1988)
Printing Services

BDZIL, MARGARET (2001)
Workforce Development

BICHLER, SILVIA (2001)
Creative Arts

BLACKBOROW, SANDRA (2003)
Learning Resources

BONNER, CHRISTIAN (2007)
Creative Arts

BOOYE, MARILYN (1990)
Disability Support Programs and Services

BRACY, SHANNON (1987)
Physical Education

BRADBURN, KENT (1997)
Operations

BREAULT, EDWARD (1995)
Creative Arts

BRICMONT, KRISTINE (2006)
Child Development

BROWN, JAYME (2014)
Bookstore

BURDICK, MARIVIC (2013)
College Operations

BURLANESCU, LIDIA (2016)
Biology

BYARS, DAVID (2008)
Learning Resources

CABRERA, DEBORAH (2014)
Deaf and Hard of Hearing Services

CACERAS, ANTHONY (2016)
Financial Aid

CALE, DONNA (2014)
Disability Support Programs and Services

CARDOZA, SANDRA (2008)
Learning Resources

CARUANA, TRACY (2017)
Educational Diagnostic Center

CARUNGAY, EDWIN (2017)
Communications

CASTILLO, MARIA (2001)
College Operations

CERVANTES, EMIGDIO (2008)
College Operations

CERVANTES, LETICIA (1999)
College Operations

CHANG, MI (2002)
Curriculum/Scheduling

CHAPMAN, STACY (2005)
Deaf and Hard of Hearing Services

CHARNOSKI, NANCY (2014)
Admissions and Records

CHENEY, MELODIE (1998)
Admissions and Records

CHING, LARRY (2007)
Communications

CHO, HUA-CHING (2014)
Child Development Center

CHUNG-TABANGCURA, TRACY (2000)
Articulation and Transfer Services

CLARK-TILLMAN, MARY (1999)
Curriculum

CONTRERAS, ADAM (2008)
College Operations

CONTRERAS, DIANA (2005)
Assessment

COOKE, JOSEPH (2007)
Grounds

CORDOBA ROBYN, INES (2016)
International Student Services

CORPUZ, ANNETTE (1989)
Learning Resources

CORRALES, FRANTIE (1997)
College Operations

CUEVAS-MACIAS, NITZYA (2016)
Transfer Center

DAVIDSON, HAYLEY (2016)
International Student Programs

DEBLER, NORBERT (1997)
Educational Technology Services

DELGADO, RICHARD (2011)
Student Success Center

DIBERNARDO, JACQUELINE (2015)
Financial Aid

DICKARD, JEFFREY (2006)
Admissions and Records

DIGIULIO, LIZ (2015)
Massage Therapy

DIMARE, KENNETH (1997)
Bookstore

DOAN, MICHELLE (2000)
Physical Sciences, Math & Engineering

DOWLING JR., PATRICK M. (2005)
Student Success Center

DUONG, GIOI (2010)
College Operations

DUQUE, INGRID FELK (2007)
Occupational Training Institute

ECHEVERRIA, ARMANDO (2005)
Adapted Physical Education

EDMAN, SUSAN (1989)
Language Arts

ENGLEN, MARY KAY (1982)
Professional Development

ESPINO, AGUSTIN (2017)
Design and Manufacturing Technologies

ESTRADA, ALFREDO (2001)
College Operations

EVERT, OLGA (2008)
Instruction

FERREIRA, ANA MARIA (2012)
College Operations

FERRER, MARK (2014)
Disabled Student Programs and Services

FLORES, ERIKA (2016)
Student Success and Support Program

FOSNAUGH, MICHAEL (2001)
Disabled Student Programs and Services

FRANCO, KAREN (2007)
Deaf and Hard of Hearing Services

FUKUYAMA, KIMBERLY T. (2006)
Educational Diagnostic Center

GACA, RICHARD (1999)
Educational Technology Services

GALINDO, MICHAEL (2016)
Disabled Student Programs and Services

GARCIA, ADRIANA (2016)
Equity, Social Justice and Multicultural Education

GARRIDO, DAVID (1991)
Learning Resources

GERARD, TERI (2007)
Budget and Personnel

GERARDO, PRECIOUS (2014)
Physical Education

GHAMRAWI, ABDUL (2010)
Business, Computer Science and Applied Technologies

GIBSON, PIPPA (2001)
Finance and College Operations

GILBERTSON, K. DOROTHY (2005)
Adapted Physical Education

GILLELAND, MAX (2002)
Design and Manufacturing Technologies

GILLETT, DAVID (2002)
Educational Technology Services

GONZALEZ, SABRINA (2016)
Academic Advisor

GORE, SALLY (1989)
Operations

GREENE, LILY (1988)
Extended Opportunities, Programs and Services

GUST, MYRNA (2015)
Child Development Center

GUZMAN, CLAUDIA (2016)
Administrative Assistant, Sr

HARRELL, ALEX (2015)
Communications

HATT, LISA (2000)
Library

HAWTHORN, MARGARITA (2002)
Community Education

HEIN, GEORGE (1997)
Language Arts

HERNANDEZ, FRANCISCO (2015)
College Operations

HERNANDEZ, JOSE (2016)
Enrollment Services

HERNANDEZ, JUAN HERNANDEZ (2006)
College Operations

HERNANDEZ, NANCY (2014)
Disabled Student Programs and Services

HERNANDEZ MAZARIEGOS, MARIA (2016)
Student Development

HILER, LAURA (2016)
Financial Aid

HIRATA, LUCILA (2007)
Child Development Center

HO, SUSAN (2001)
Physical Education

HO, TRUNG (2015)
Disabled Student Programs and Services

HUNTER, KAREN KAY (2005)
Financial Aid

HUTCHINSON, DAVID (2010)
Operations

HUYNH, ANDY (2007)
Assessment

HUYNH, CHANEL (2017)
Student Success Center

HUYNH, NICHOLAS (1988)
Financial Aid

INGALLS, MELISSA (1996)
Biological, Health and Environmental Sciences

IZU, THOMAS (1994)
California History Center

JENSEN, ROSEMARY C. (2007)
Deaf and Hard of Hearing Services

JOHNSON, BARRY (1996)
Admissions and Records

JONES, CAROL (2001)
Physical Education

JOSEPH, PAULA (1999)
College Operations

KAHLER, VICTORIA (2011)
Student Success Center

KAN, DALE (2000)
High Tech Center Training Unit

CLASSIFIED STAFF

KANAFA, SYLWIA (2014)
Child Development Department

KANG, EUNSOOK (2006)
Creative Arts

KAUR, SATINDER (2014)
Biological, Health and Environmental Sciences

KAVANAUGH, NATHAN (2015)
Library Services

KENNEDY, DANA (2015)
Business, Computer Science and Applied Technologies

KHA, BACHMAI (1995)
Business, Computer Science and Applied Technologies

KHINE, AYE (2013)
Child Development

KIDANE, AKLILU (2008)
Physical Sciences, Math and Engineering

KIM, YUME (2016)
Educational Diagnostic Center

KING, HEIDI (2015)
Learning Resources

KIRK, LISA (1994)
Student Accounts

KIRKPATRICK, KERI (2006)
Learning Resources

KOMATSU, TOSHI (2016)
Planetarium

KONG, JOHN (2000)
College Operations

KONG, YUKBING (1997)
College Operations

KRAMASZ, VIRGINIA (2000)
Admissions and Records

KRUEGER GILKA, LILITH (2016)
Learning Resources

KULUSICH, KRISAN (2011)
Health Services

KUO, YUAN (2004)
Learning Resources

LA GRANGE, ERIK (1998)
Educational Technology Services

LAM, PHONG (2008)
Business, Computer Science and Applied Technologies

LAM, TRACY (2006)
Learning Resources

LAMBERTY, MEGHAN (2012)
Child Development Center

LAMBRUSCHINI, ALEJANDRO (1991)
Bookstore

LARGENT, ALLISON (2007)
International Student Programs

LATONE, ROBERT (1987)
Operations

LE, CHUONG (2002)
Extended Opportunities, Programs and Services

LEE, CYNTHIA (2013)
Adapted Physical Education

LEE, JENNIFER (2016)
Admissions and Records

LEVIN, REBECCA (1999)
Counseling

LIANG, LILY (2006)
Printing Services

LIAO, CHIEN-HUI (2007)
Educational Technology Services

LIPSIG, JOSEPH (2012)
Occupational Training Institute

LOCKWOOD, TINA (2016)
College Operations

LONBANI, PARVIN (2013)
Child Development

LONGORIA, FELIX (2016)
Grounds

LOPEZ, BIANCA (2016)
Admissions and Records

LOVDAHL, ELI (2017)
Testing and Assessment

LU, SHAN (2000)
Educational Technology Services

LUIS, MELISSA (2017)
Counseling

LY, LISA (2015)
Student Equity

MA, JIM (1996)
Operations

MACHADO, MARIA (2015)
Campus Center

MATHIR, YUSUF (2000)
Educational Technology Services

MARTINEZ, DIANNA (2007)
Environmental Sciences

MARTINEZ, TOMAS (2015)
Bookstore

MAYNARD, LORNA (1991)
Automotive Technology

MCGILL, CONNOR (2017)
HOPE-De Anza Program

MEDRANO, MARY (2017)
Intercultural Studies

MELL, BONNIE (1987)
Biological, Health and Environmental Sciences

MENDES, EDUARDO (2014)
College Operations

MIESO, LEAH (2017)
Communications

MILLER, SUSAN L. (2005)
Short Courses

MONSELL, CATHLEEN (2012)
Physical Sciences, Math and Engineering

MOREANOFERREL, MARVIN (2010)
Student Success Center

MORRISON, SYLVIA (2005)
Adapted Physical Education

MUNSON, KATHLEEN (1997)
Library

NAKAHARA, CHRISTINE (2009)
Deaf and Hard of Hearing Services

NAKAYAMA, CINDY (1998)
Admissions and Records

NAVARRO, MELECIA (2015)
Extended Opportunities Programs and Services

NELSON, LEIF (1994)
District Police, De Anza

NEWELL, MALLORY A. (2010)
Institutional Research

NG, JOSEPH (2002)
International Student Programs

NGUYEN, BACHLAN (1984)
Business, Computer Science and Applied Technologies

NGUYEN, DUC (1998)
College Operations

NGUYEN, HENRY (2000)
Cashiering Services

NGUYEN, JENNIFER (1985)
Student Accounts

NGUYEN, LESLIE (1997)
Social Sciences/Humanities

NGUYEN, STEVEN (2016)
Communications

NGUYEN, THAO PHUONG (2006)
Financial Aid

NINE, NILA (2012)
College Operations

O'KEEFE, FAY M. (2006)
Child Development Center

OKABE-KUBO, JOANN (1981)
Intercultural/International Studies

OUK, SAMASATHY (2014)
Food Services

OWENS, ERIKA (2006)
High Tech Center Training

PABROS, ANGELITA (2001)
Academic Services

PACHECO, MIGUEL (2014)
Bookstore

PAHL, HANNAH (2002)
Deaf and Hard of Hearing Services

PARKER, ARLYNN (2015)
Administrative Assistant II

PARTIDA-FLETES, JESUS (1997)
College Operations

PASQUALI, SHARI (2008)
Admissions and Records

PEN, SOTHA (2016)
Food Services

PENA-FERRICK, JOAN (1986)
Admissions and Records

PENG, QUAN (2006)
Counseling

PERALES, KIT (2014)
Budget and Personnel

PHAM, STEPHANIE (1989)
Learning Resources

PHAM, THIEU BAO (2002)
Educational Technology Services

PHAN, DUC (1987)
Printing Services

PHILLIPS, ASHLEY (2014)
Career Technical Education

QUIDACHAY, JESSICA (2005)
College Operations

RABBITT, PETER (2000)
Physical Education

RAZZAQUI, ZARMINA (2001)
Counseling

REICHMUTH, CRISTIN (2016)
Community Education

ROBLES, GEORGE (1978)
Extended Opportunities Programs and Services

RODERIQUES, IVAN (1995)
College Operations

RODRIGUEZ, AMBROCINE (2014)
Outreach and Relations with Schools

RODRIGUEZ, ANNA (2016)
Counseling

RODRIGUEZ, JORGE (1998)
Cashiering Services

ROWE, TERRANCE (2002)
Educational Technology Services

ROY, BRANDY (2012)
College Operations

ROY, TERESA (2014)
College Operations

RUEDA, JOSE (1985)
Educational Technology Services

RUEDA, SYLVIA (1989)
Health Services

RUELAS, CLAUDIA (2013)
Financial Aid

RUELAS, JESUS (2015)
Student Success and Support Program

RULLODA, GAIL ANN (2016)
Disabled Student Programs and Services

SALAS, GREGORY (2016)
Disabled Student Programs and Services

SALAZARES, MARIA (1995)
College Operations

SANCHEZ, AMELIA (1995)
Testing and Assessment

SANCHEZ, NUBIA (2015)
Outreach

SANCHEZ, RITA (2002)
Child Development Center

SANTA ANA, TONY (2015)
Equity, Social Justice and Multicultural Education

SANTACRUZ, ANDREA (2007)
Student Sucess and Support Services

SCHOOLER, SHIRLEY (1992)
Disabled Student Programs and Service

SCHOTT, THOMAS (1987)
Film/TV

SERNA, STEPHANIE (2015)
Occupational Training Institute

SERRANO, MARIA (1989)
Food Services

SHANNAKIAN, DENNIS (1999)
College Life

SMITH, CYNTHIA (1989)
Budget and Personnel

SOUSA, JASON (2013)
College Operations

SOUSA, ROSA (2002)
College Operations

STEINER, CHRISTA (2016)
Evaluation Specialist

STEWART, SABRINA (2013)
Occupational Training Institute

STODDARD, ANDREW (2009)
Machining Computer Numerical Control

STOECKLE, SHARON (1984)
Bookstore

STROMAN, MCTATE (2013)
Financial Aid

STRONGONE, ANGELICA (2000)
International Student Programs

STRUVE, JOHN (2015)
Food Services

SUSI, LORI (1990)
Communications

TE, KIM (2002)
Scheduling

TEPPANG, NOEMI (2015)
International Student Programs

THAI, BINH (1984)
Admissions and Records

THAI, TRUNG (1998)
Learning Resources

THANH, QUANG (2001)
Learning Resources

TOMALINAS, ROBERT (2006)
Admissions and Records

TRAN, HUNG (1996)
Educational Technology Services

TRAN, TRANG (2015)
Food Services

TRINH, LAN (2002)
Extended Opportunities Programs and Services

TROSPER, MATT (1989)
Athletics

VACHHARAJANI, TANUSHREE (2017)
Educational Diagnostic Center

VALENCIA SUDA, KANAKO (2007)
Learning Resources

VALENTINE, GARY (2013)
Financial Aid

VAN, HOANG (1997)
Educational Technology Services

VAN, NINA (2003)
Financial Aid

VARELA, SOFIA (2006)
Child Development Center

VEGA, JOAQUIN (2015)
College Operations

VELA, JENNY (2012)
Distance Learning

VILLALBA, KAREN (2006)
Child Development

WALSH, STEVIE (2015)
Physical Sciences, Math and Engineering

WANG, SHUYAN (2006)
Child Development

WARD, GINA (2015)
Admissions and Records

WATSON, LAURA (2015)
Student Services

WEINER, JESSICA (2013)
Child Development

WEN, CHIA C. (2010)
Creative Arts

WHEAT, CASIE (2005)
Assessment Center

WHELAN, PATRICIA (2001)
Disabled Student Programs and Services

WHITE, SHAWNNIE (2016)
Counseling

WHYTE, BERTHA (2016)
Financial Aid

WIDIARTA, ERWIN (2002)
Educational Technology Services

WILLIAMS, STEVEN (2014)
Physical Education

WINN, MONIKA (1988)
Bookstore

WOO, TINA (2001)
President's Office

WRIGHT, BILL (2006)
Child Development Center

YUMORI-KAKU, LA DONNA (1979)
College Life

YUVARAJ, DEEPA (2014)
Academic Services

ZHU, YALI (2012)
Flea Market Coordinator

ZINK, PAUL (1987)
Educational Technology Services

DE ANZA COLLEGE ADMINISTRATION

BRIAN MURPHY
President

CHRISTINA ESPINOSA-PIEB
Vice President, Instruction

STACEY A. COOK
Vice President, Student Services

SUSAN CHEU
Vice President, Finance and College Operations

DE ANZA COLLEGE ADMINISTRATION

Associate Vice President, College Operations	**Pam Grey**
Associate Vice President, Communications and External Relations	**Marisa Spatafore**
Associate Vice President, Instruction	**Lorrie Ranck**
Associate Vice President, Student Services	**Rob Mieso**
Dean, Biological, Health and Environmental Sciences	**Anita Muthyala-Kandula**
Dean, Business, Computer Science and Applied Technologies	**Moaty Fayek**
Dean, Community Education	**Sam Bliss**
Dean, Counseling and Student Success	**Sheila White-Daniels**
Dean, Creative Arts	**Nancy Canter**
Dean, Disability Support Programs and Services	**Stacey Shears**
Dean, Enrollment Services	**Tamica Ward**
Dean, Equity and Engagement	**Vacant**
Dean, Intercultural/International Studies	**Edmundo Norte**
Dean, Language Arts	**Thomas Ray**
Dean, Physical Education and Athletics	**Coleen Lee-Wheat**
Dean, Physical Science, Math and Engineering	**Jerry Rosenberg**
Dean, Social Sciences and Humanities	**Carolyn Wilkins-Greene**
Dean, Student Development and EOPS/CARE	**Michele LeBleu-Burns**
Director, Budget and Personnel (Interim)	**Martin Varela**
Director, Campus Center	**Patrick Gannon**
Director, Child Development Center	**Naoko Harada**
Director, Bookstore and Printing Services	**Kelly Swanson**
Director, Financial Aid and Scholarships	**Lisa Mandy**
Director, High Tech Center Training Unit	**Gaeir Dietrich**
Director, STEM Success Program	**Yvette Campbell**
Manager, Operations	**Manny DaSilva**

(FALL 2017)

FOOTHILL-DE ANZA COMMUNITY COLLEGE DISTRICT BOARD OF TRUSTEES

LAURA CASAS

PEARL CHENG

PETER LANDSBERGER

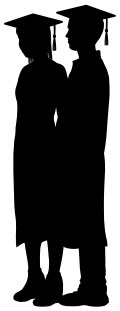
BRUCE SWENSON

GILBERT WONG

FOOTHILL-DE ANZA COMMUNITY COLLEGE DISTRICT ADMINISTRATION

Chancellor	**Judy Miner**
Administrative Offices	
Vice Chancellor, Human Resources/Equal Opportunity	**Dorene Novotny**
Director, Human Resources	**Marietta Harris**
Manager, Benefits	**Christine Vo**
Vice Chancellor and Chief Technology Officer	**Joseph Moreau**
Executive Director, Institutional Research and Planning	**David Ulate**
Director, Information Systems	**Chien Shih**
Director, Systems and Networks	**Sharon Luciw**
Vice Chancellor, Business Services	**Kevin McElroy**
Budget Officer	**Joni Hayes**
Executive Director, Facilities and Operations	**Steve Kitchen**
Associate Director, Facilities and Operations	**Vacant**
Executive Director, Fiscal Services	**Raquel Puentes-Griffith**
Director, Purchasing Services	**Vacant**
Director, Risk Management	**Marsha Kelly**
Director, Bond Program Management – De Anza	**Tom Armstrong**
Director, Environmental Health and Safety	**Karen Lauricella**
Executive Director, Foundation	**Tess Chandler**
Assistant Director, Foundation	**Robin Latta**
Associate Director, Foundation – De Anza	**Dennis Cima**
Chief of Police	**Ron Levine**
Assistant Chief of Police	**Daniel Acosta**

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. 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	High/High	Oral, smoked	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
Morphine	High/High	Oral, smoked, injected	3-6			
Codeine	Mod./Mod.	Oral, injected	3-6			
Heroin	High/High	Smoked, injected, sniffed	3-6			
Hydromorphone	High/High	Oral, injected	3-6			
Meperidine	High/High	Oral, injected	3-6			
Methadone	High/High	Oral, injected	12-24			
Barbiturates	High/Mod.	Oral	1-16	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
Methaqualone	High/High	Oral	4-8			
Tranquilizers	High/High	Oral	4-8			
Chloral Hydrate	Mod./Mod.	Oral	5-8			
Glutethimide	High/Mod.	Oral	4-8			
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	Possible/High	Oral, injected	2-4			
Methamphetamine	Possible/High	Oral, injected	2-4			
Phenmetrazine	Possible/High	Oral, injected	2-4			
Methylphenidate	Possible/Mod.	Oral, injected	2-4			
Other Stimulants	Possible/High	Oral, injected	2-4			
Ice	High/High	Smoked, oral injec., inhaled	4-14			
PCP, Angel Dust				Rapidly changing feelings, immediately and long after use		
Loveboat	Unknown/High	Smoked, oral, injected	Up to days	Chronic use may cause persistent problems, depression, violent behavior, anxiety, distorted perception of time	Longer, more intense "trip" episodes, psychosis, coma, death	No known withdrawal syndrome
LSD/Acid	None/Unknown	Oral	8-12 hrs.	Large doses may cause convulsions, coma, heart/lung failure, ruptured blood vessels in the brain		
Green/Red Dragon						
Mescaline, Peyote	None/Unknown	Oral, injected	8-12 hrs.			
Psilocybin	None/Unknown	Oral, injected, smoked, sniffed	Variable	May cause hallucinations, illusions, dizziness, confusion, suspicion, anxiety, loss of control		
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 vivd 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	Unknown/Moderate	Smoked, oral	2-4			
Hashish	Unknown/Moderate	Smoked, oral	2-4			
Hashish Oil	Unknown/Moderate	Smoked, oral	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.

	Drug	Quantity	1st Offense	2nd Offense	Quantity	1st Offense	2nd Offense
CSA I and II	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. 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			1 kg or more mix		
	Cocaine	500-4,999 gm mixture			5 kg or more mix		
	Cocaine Base	5-49 gm mixture			50 gm more mix		
	PCP	10-99 gm pure or 100-999gm mixture			100 gm or more pure or 1 kg or more mixture		
	LSD	1-9 gm mixture			10 gm or more mixture		
	Fentanyl	40-399 gm mixture			400 gm or more mixture		
	Fentanyl Analogue	10-99 gm mixture			100 gm or more mixture		

	Drug	Quantity	1st Offense	2nd Offense
CSA I and II	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.

INDEX

D

E

F

G

H

R

S

T

U

V

W

DIRECTORY

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.

Administration Building	President, Vice Presidents and Associate Vice Presidents (Instruction, Student Services, Finance and College Operations, Communications), Academic Services, Budget and Personnel, Institutional Research, Rental Facilities Coordinator, Mailroom
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-9	Classrooms
AT – Advanced Technology Center	Labs and Classrooms for Accounting, Computer Access Lab, Computer Information Systems (CIS), Disability Support Programs and Services, Engineering, English, English as a Second Language (ESL), Film/TV, Graphic Design, Language, Manufacturing and Design, Mathematics, Statistics, Student Success Center
Baldwin Winery	Financial Aid, Printing Services, Part-time Faculty Offices
Hinson Campus Center Upper Level	Dining Rooms, Dining Services, Meeting Rooms: Conference Rooms A and B, Don Bautista Room, El Clemente Room, Fireside Room, Meeting Room 1, Santa Cruz Room, Staff Lounge, Meditation and Prayer Room
Lower Level	Foothill-De Anza District Police, De Anza Associated Student Body (DASB) Offices, DASB Card Office, Office of College Life, Dean of Student Development, EOPS/CARE, Flea Market Office, Le Café, Health Services, Inter-Club Council (ICC) Office, Student Accounts, Student Council Chambers
CDC	Child Development Center
CHC	California History Center (Trianon Building)
ECOT-1	Vasconcellos Institute for Democracy in Action (VIDA)
E-1	Automotive Technology
E-2	Design and Manufacturing Technologies
E-3	Classrooms, Faculty Offices
ESA	Environmental Study Area Lab
F-1 through 6	Faculty Offices
FC	Flint Center, Box Office
FOR – Forum	Art History Slide Library/Office, Faculty Offices, Lecture Halls
F-1,2,3	Faculty Offices
F-4,6	Faculty Offices
G-1 through 10	General Purpose Classrooms, Grounds and Custodial Warehouse – Plant Services
HTCTU – Hoefler Building	High Tech Center Training Unit
KC – Kirsch Center For Environmental Studies	Biological, Health and Environmental Sciences/ Workforce Education Division Office, Faculty Offices, Classrooms
LCW – Learning Center West	Audio Visual, Classrooms, Deaf and Hard of Hearing Services, Disability Support Services Testing and Tutoring, Library West Computer Lab; Student Success and Retention Services
Library – (Rear)	Community Education – ExtendedYear Program, Short Courses
L-1	Business, Computer Science and Applied Technologies Division Office, Language Arts Division Office, Social Sciences/ Humanities Division Office
L-2,3	Classrooms/Psychology Lab
L-4	La Voz, Red Wheelbarrow, Classrooms
L-5	Restrooms
L-6,8	Classrooms
L-7	Data Services
Media and Learning Center (MLC)	Online Education, Equity Office, Learning Resources, Multimedia Team, Professional Development
Mod Quad	ETS
MQ-1	
MQ-2	Classroom
MQ-3	Classroom
MCC	Intercultural/International Studies Division Office and Multicultural Center
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 – Planetarium	De Anza College Planetarium
Science Center	
SC-1	Lecture Hall, Faculty Offices
SC-2	Labs
SC-3	Pavilion
SEM – Seminar	CompTechS/Computer Donation Program, Outreach and Relations with Schools, Occupational Training Institute (OTI), County Office of Education
S-1	Geology/Physics Classrooms, Faculty Offices
S-2	Restrooms
S-3	Classrooms/Physical Science/Math/Engineering Division Office, Faculty Offices, Honors Program
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
RSS – Registration and Student Services Building	Admissions and Records, Articulation, Assessment Center (Testing), Bookstore, Cashier, Counseling and Advising Center, DASB Bike Rental Corral, Educational Diagnostic Center, International Student Office, Matriculation, Psychological Services, Transcripts, Transfer Center, Veteran Services
VPAC – Visual & Performing Arts Center	Art History Classroom, Auditorium/Lecture Hall, Euphrat Museum of Art

De Anza College

21250 Stevens Creek Boulevard
Cupertino, CA 95014

LEGEND

- Emergency Phone
- Pay Phone
- Restrooms
- Gender Neutral Restrooms
- TTY Phone
- County Transit
- Division Offices
- Elevators
- Motorcycle Parking
- Carpool Parking
- Handicapped Parking
- Para Transit Drop Off
- AED (Automated External Defibrillator)
- Parking Permit Machine
- Construction Zone
- Pedestrian Pathways
- 30-Minute Visitor Parking
- Passenger Drop-Off
- E V Charging
- DASB Bike Rental Corral

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21250 Stevens Creek Boulevard, Cupertino, California 95014
www.deanza.edu