

DeAnza  College

2018-2019  
CATALOG







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# DE ANZA COLLEGE

## ACADEMIC CALENDAR 2018-2019



### FALL QUARTER

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#### Sept. 24 through Dec. 14, 2018

Last day for international students to apply for admission: July 30

Instruction begins: Sept. 24

Final examinations: Dec. 10-14

#### Holidays

*Veterans Day: Nov. 12*

*Thanksgiving recess: Nov. 22-25*

*Winter recess: Dec. 15-Jan. 6*

### WINTER QUARTER

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#### Jan. 7 through March 29, 2019

Last day for international students to apply for admission: Oct. 31

Instruction begins: Jan. 7

Final examinations: March 25-29

#### Holidays

*Martin Luther King, Jr. Day: Jan. 21*

*Presidents' Day weekend: February 15-18*

*Spring recess: March 30-April 7*

### 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 [deanza.edu](http://deanza.edu).

### SPRING QUARTER

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#### April 8 through June 28, 2019

Last day for international students to apply for admission: Jan. 31

Instruction begins: April 8

Final examinations: June 24-28

#### Holidays

*Memorial Day weekend: May 25-27*

### SUMMER SESSION

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For the latest information, see [deanza.edu/calendar](http://deanza.edu/calendar).

#### Holiday

*Independence Day: July 4*

The 2018-2019 De Anza College catalog is produced by the college's offices of Communications and Curriculum with the assistance of contributors from other departments.

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De Anza College is a public, two-year college of the Foothill-De Anza Community College District  
21250 Stevens Creek Boulevard ■ Cupertino, California 95014 ■ [deanza.edu](http://deanza.edu)



# WELCOME

*Dear Student,*

*We are honored that you have chosen to join us at De Anza.*

*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 great academic programs, athletic teams and clubs. We are committed to providing an outstanding education and a safe, supportive, engaging environment for all students.*

*We are proud of our college and its 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. We're also proud to be “Tops in Career Training,” with outstanding workforce programs.*

*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 environmental sustainability and energy conservation.*

*While the campus is wonderful, 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 am a De Anza College graduate myself, and both of my children graduated and transferred from De Anza. I am very happy that you, too, have chosen to attend De Anza College. Welcome!*

*Sincerely,*



*Christina Espinosa-Pieb*  
Christina Espinosa-Pieb, Interim President



## PATHWAY TO SUCCESS

1. Declare a major on your application (not “Undecided”).
2. Select a goal of transfer, degree or certificate.
3. Complete assessment.
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).

# VISION, MISSION AND VALUES



## OUR VISION

Empower all students to attain their educational goals, develop an equity-based mindset and become civic leaders in their communities.

## 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:** [deanza.edu/about-us/mission-and-values.html](https://deanza.edu/about-us/mission-and-values.html)



# ABOUT DE ANZA



## ACCREDITATION

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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

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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 AND 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

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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

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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.



# 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, with commitments to Outreach, Individualized Attention to Student Retention and Success, Equity and Civic Engagement.

De Anza College offers 70 degrees, 95 certificates and more than 1,600 courses.

## HISTORY

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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."

De Anza's enrollment has grown from 3,000 students in its first year to almost 21,000 today. 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

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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, and 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 and 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 consistently ranks at or near the top statewide 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 2017-18, the college served 1,403 students with disabilities.

## SUSTAINABILITY, LEARNING FACILITIES AND BOND MEASURES

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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 (VPAC), LEED silver; East Cottage, Multicultural Center, Registration & 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 De Anza Planetarium, which houses the only Infinium S Star projector outside 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 sponsors several initiatives and conferences where 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 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

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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 courses that are consistent with the student-athlete's educational plan.

Most athletic programs follow 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:** [deanza.edu/athletics](http://deanza.edu/athletics)



## BOOKSTORE

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The De Anza College Bookstore is located in the Registration & 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 also sells De Anza College logo clothing and gifts, Scantron forms, pencils and convenience store items. The Bookstore offers computers, software and supplies at educational discounts.

**Telephone:** Textbook information

408.864.8455

General information

408.864.8701

**Website:** [deanza.edu/bookstore](http://deanza.edu/bookstore)  
(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

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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:** [deanza.edu/califhistory](http://deanza.edu/califhistory)

## CHEESEMAN ENVIRONMENTAL STUDY AREA (CHEESEMAN ESA)

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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

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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 or 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 [deanza.edu/child](http://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)

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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](mailto:collegelife@deanza.edu)

**Website:** [deanza.edu/collegelife](http://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:** [deanza.edu/clubs](http://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:** [deanza.edu/dasb](http://deanza.edu/dasb)

## COMMUNITY EDUCATION

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

**Website:** [deanza.edu/community](http://deanza.edu/community)

## DE ANZA COLLEGE ACADEMY

This program is offered for students entering first through 12<sup>th</sup> grades. Though peak operations take place during the summer months, De Anza College Academy operates year round. The programs are offered in partnership with De Anza College's Euphrat Museum of Art, California History Center and the Planetarium, as well as Foothill College's Krause Center for Innovation and local K-12 schools.

**Location:** Learning Center, Room 141

**Telephone:** 408.864.8817

**FAX:** 408.864.5472

**Email:** [communityeducation@deanza.edu](mailto:communityeducation@deanza.edu)

**Website:** [deanza.edu/academy](http://deanza.edu/academy)

## DE ANZA COLLEGE 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:** 408.864.5472

**Email:** [communityeducation@deanza.edu](mailto:communityeducation@deanza.edu)

**Website:** [deanza.edu/shortcourses](http://deanza.edu/shortcourses)

## PLANETARIUM

The De Anza College Planetarium hosts a variety of star and laser light shows during fall, winter and spring 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

**Fax:** 408.864.5643

**Email:** [planetarium@deanza.edu](mailto:planetarium@deanza.edu)

**Website:** [deanza.edu/planetarium](http://deanza.edu/planetarium)

## COUNSELING AND ADVISING CENTER

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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 advisers 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.-5 p.m.; Tuesdays, 8:30 a.m.-7 p.m.; Wednesdays, 8:30 a.m.-3 p.m. and 5-7 p.m.; and Fridays, 8:30 a.m.-1 p.m. Counselors and advisers may be seen on a drop-in basis or by appointment 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 & Student Services Building, 2<sup>nd</sup> floor

**Telephone:** 408.864.5400

**Website:** [deanza.edu/counseling](http://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:

- Eligibility to run for 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:** [deanza.edu/collegelife/idcard.html](http://deanza.edu/collegelife/idcard.html)

## 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:** [deanza.edu/dining](http://deanza.edu/dining)

## 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:** [deanza.edu/dsps/ape](http://deanza.edu/dsps/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](mailto:dss@deanza.edu)

**Website:** [deanza.edu/dsps/dss](http://deanza.edu/dsps/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 & Student Services Building

**Telephone:** 408.864.8838

**Website:** [deanza.edu/dsps](http://deanza.edu/dsps)

## 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:** [deanza.edu/dsps/hope](http://deanza.edu/dsps/hope)

## EDUCATIONAL PLAN/ DEGREEWORKS

Students create an educational plan in DegreeWorks, found on MyPortal. During orientation, new students learn how to create an abbreviated educational plan for their first one or two quarters. Students must then develop a comprehensive educational plan for 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 indicate what percentage of their degree has been completed. 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 or 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

**Website:** [deanza.edu/eops](http://deanza.edu/eops)

## 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](mailto:equityoffice@deanza.edu)

**Website:** [deanza.edu/equityoffice](http://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 DeAnza Student Art Show. Students participate in all aspects of museum operations, including the Euphrat's Arts and 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:** [deanza.edu/euphrat](http://deanza.edu/euphrat)



## FINANCIAL AID AND SCHOLARSHIPS

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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](http://www.fafsa.gov). Carefully follow the directions provided. Undocumented students should use the California Dream Act application instead of the FAFSA. 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 and to 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 Plus Parent Loans

#### Part-time Jobs

- Federal Work Study Program

#### Grants

- Federal Supplemental Educational Opportunity Grant Program (SEOG)
- Federal Pell Grant

- Extended Opportunity Program Grant (EOPG)
- Cal Grants B and C
- Student Success Completion Grant

#### Waivers

- California College Promise

#### 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.

#### AB 540 Students

Students admitted under AB 540 are eligible to apply for the California College Promise, Cal Grants and many private scholarships.

**Location:** Baldwin Winery Building

**Voicemail:** 408.864.8718

**Email:** [financialaid@deanza.edu](mailto:financialaid@deanza.edu)

**Website:** [deanza.edu/financialaid/apply](http://deanza.edu/financialaid/apply)

## HEALTH SERVICES

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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:** [deanza.edu/healthservices](http://deanza.edu/healthservices)

## HOUSING

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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:** [deanza.edu/housing](http://deanza.edu/housing)

## INTERNATIONAL STUDENT PROGRAMS

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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, 2<sup>nd</sup> floor

**Telephone:** 408.864.8826

**Email:** [dainternational@deanza.edu](mailto:dainternational@deanza.edu)

**Website:** [deanza.edu/international](http://deanza.edu/international)

## LEARNING COMMUNITIES

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:** [deanza.edu/learning-communities](http://deanza.edu/learning-communities)

## 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:** SSRS Center  
**Telephone:** 408.864.8470  
**Email:** [fye@deanza.edu](mailto:fye@deanza.edu)  
**Website:** [deanza.edu/fye](http://deanza.edu/fye)

## 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](mailto:dahonors@deanza.edu)  
**Website:** [deanza.edu/honors](http://deanza.edu/honors)

## HUMANITIES MELLON SCHOLARS

The Humanities Mellon Scholars program is designed to expose a diverse population of students to the humanities – which can help students develop essential skills for innovation, critical thinking and problem solving. Participants can take classes together, earn a Certificate of Achievement in Humanities and get ready for transfer in two years. They're also eligible for paid internships and other financial help, workshops, social events and guaranteed admission for up to 20 students to the University of San Francisco.

**Email:** [camminfalk@foothill.edu](mailto:camminfalk@foothill.edu)  
**Website:** [deanza.edu/mellonscholars](http://deanza.edu/mellonscholars)

## IMPACT AAPI

IMPACT AAPI was initially 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](mailto:impactaapi@deanza.edu)  
**Website:** [deanza.edu/impact-aapi](http://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:** Equity and Engagement Division, MLC 250

**Email:** [lead@deanza.edu](mailto:lead@deanza.edu)  
**Website:** [deanza.edu/lead](http://deanza.edu/lead)

Note: The LEAD program is hiatus for 2018-2019 academic year.

## 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](mailto:linc@deanza.edu)  
**Website:** [deanza.edu/linc](http://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 STEM Support Pathway, designed to help students complete Precalculus and pursue majors in science, technology, engineering or math. The STEM Support Pathway includes mentorship, field trips, workshops and the following courses

- MATH 41: Precalculus 1
- MATH 42: Precalculus 2
- MATH 43: Precalculus 3

**Location:** S4  
**Telephone:** 408.864.5664  
**Email:** [mpps@deanza.edu](mailto:mpps@deanza.edu)  
**Website:** [deanza.edu/mpps](http://deanza.edu/mpps)

## MEN OF COLOR COMMUNITY (MC<sup>2</sup>)

The Men of Color Community (MC<sup>2</sup>) 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:** 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:** 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:** deanza.edu/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:** deanza.edu/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:** deanza.edu/vida

## LIBRARY SERVICES

The 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, 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:** deanza.edu/library



## OCCUPATIONAL TRAINING INSTITUTE (OTI)

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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 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, development of an approved individualized education plan; as well as help with purchasing 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 or 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:** [deanza.edu/oti](http://deanza.edu/oti)

## ONLINE EDUCATION CENTER

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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. 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](mailto:onlineeducation@deanza.edu)

**Website:** [deanza.edu/online-ed](http://deanza.edu/online-ed)

## OUTREACH AND RELATIONS WITH SCHOOLS (OFFICE OF)

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The Office of Outreach and Relations with Schools 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, 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:** deanza.edu/outreach

## POLICE (FOOTHILL-DE ANZA COMMUNITY COLLEGE DISTRICT)

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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.

### 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. This service is not available for vehicles with power locks and windows, or side air bags, or vehicles parked off campus.

### Security Escorts

Escorts are provided by district police for anyone wishing to be escorted to their 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:** 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

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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

## SMARTPASS (FORMERLY ECO PASS)

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The SmartPass program is a partnership between the De Anza College Associated Student Body (DASB) and the Santa Clara

Valley Transit Authority (VTA). Students with the SmartPass get unlimited rides on all VTA buses and light rail within Santa Clara County for the duration of each quarter, provided they are enrolled in classes. The SmartPass is not transferable to others and is funded through a mandatory quarterly fee, established by the DASB. Please visit the College Life office or website for more information about the SmartPass.

**Website:** deanza.edu/smartpass

## STEWARDSHIP RESOURCE CENTER

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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)

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Many academic support efforts are organized within the Student Success Center, part of the Equity and Engagement 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:** 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, part of the Equity and Engagement Division, is an academic enrichment and support center. Several programs facilitate 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.

**Location:** Learning Center West 102

**Telephone:** 408.864.8470

**Website:** [deanza.edu/ssrc](http://deanza.edu/ssrc)

## TRANSFER CENTER

The Transfer Center, located in the Registration & 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
- Printed materials from Universities of California, California State Universities and many colleges and universities.
- Easy access to computers for transfer research.
- 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 available through the Counseling and Advising Center.

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

**Location:** Registration & Student Services Building

**Telephone:** 408.864.8841

**Website:** [deanza.edu/transfercenter](http://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.

Under federal regulations, students receiving VA benefits must maintain both satisfactory attendance and grade point average. Students will be notified that they are making unsatisfactory progress if their GPA falls below 2.0 for one quarter and they have been placed on probation. Students will have their VA benefits suspended if their GPA remains below 2.0 for a second consecutive quarter, or if their records show more than two quarters in which they are on probation with a cumulative GPA below 2.0.

**Location:** Registration and Student Services Building, Room 127, Veteran Services Office

**Telephone:** 408.864.8723

**Website:** [deanza.edu/veterans](http://deanza.edu/veterans)

**Appointments:** available



# 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 SmartPass 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 [deanza.edu/cashier/fees.html](http://deanza.edu/cashier/fees.html) 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](mailto: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 2018-2019 Estimated Cost of Attendance	
Living at Home with No Dependents	
Registration and fees	\$1,515
Books and supplies	\$1,917
Transportation	\$1,107
Personal misc.	\$3,258
<b>Total</b>	<b>\$7,797</b>



# 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](http://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 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 AB 540 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 nonstudent 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 nonresident 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 of "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, 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 nonrepeatable 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 they 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, they may not take the Foothill course at any time, and vice versa.

See [deanza.edu/apply-and-register/register/repeat\\_limits.html](http://deanza.edu/apply-and-register/register/repeat_limits.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:

- The necessary subjects to meet graduation requirements and the number of quarter credits in each;
- A list of De Anza courses that may satisfy these high school requirements;
- The total number of quarter units required, including electives; and
- 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, as well as online classes. Certain services are available on a limited basis on Saturdays. Check the De Anza website at [deanza.edu](http://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 & 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 de 1964, Title IX de la Enmienda a la Educación de 1972 (45CRF 86), Sección 504, 1990. El hecho que un individuo no pueda manejar el inglés con facilidad no será un obstáculo para ser admitido a la universidad ni para participar en los programas de educación vocacional.

Todo individuo que desee información tocante a estas leyes o pólizas o que desee presentar una queja debido a supuestas violaciones de Title VI del Acta de los Derechos Civiles de 1964, Title IX de la Enmienda a la Educación de 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註冊課程，學生服務，助學金申請和依法\*顧用人員方面不論其年齡、性別、婚姻狀況、殘障程度、種族、膚色、性傾向、宗教、國家、及相類似的因素都一律平等對待。(依法：指依據 1964 年民權法第 6 章、1972 年教育修正案第 9 章、1973 年恢復案第 504 條款和 1990 年美國殘障人法) 英語程度低將不會成為註冊和學習職業教育課程的障礙。

任何想詢問有關法律、政策或者對違反 1964 年民權法第 6 章、1972 年教育修正案第 9 章、1973 年恢復案第 504 條款想提出控告的人應該與學生發展部和 EOPS 主任 Michele LeBleu-Burns 或她的指定人聯絡。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 and 應用技術部主任 Jim Haynes 或他的指定人聯絡。電話是：408.864.8954。

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

若學生想利用其合法權利提出超出校級的控告，請直接向美國教育部民權辦公室詢問。地址是：50 United 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 chính và công việc làm phù hợp với những dự liệu của Mục VI trong Đạo Luật Nhân Quyền năm 1964, Mục IX của Tu Chính Án về Giáo Dục năm 1972 (45CRF 86), Khoản 504, Đạo Luật về Phục Hồi năm 1973 (P.L. 93-112), và Đạo Luật về Những Người Mỹ có Khuyết Tật năm 1990. Việc thiếu khả năng Anh Ngữ sẽ không phải là một rào cản việc gia nhập và tham dự các chương trình giáo dục chuyên nghiệp.

Bất cứ ai muốn tìm kiếm những thông tin liên quan tới các đạo luật và chính sách này, hoặc nộp một đơn khiếu nại vì những chỉ dấu cho là có vi phạm Mục VI của Đạo Luật Nhân Quyền năm 1964, Mục IX của Tu Chính Án về Giáo Dục năm 1972 (45CRF86) và Khoản 504 của Đạo Luật về Phục Hồi năm 1973 thì xin liên lạc với Michele LeBleu-Burns, Chủ Nhiệm Khoa Student Development và EOPS ở số điện thoại (408) 864-8828, hoặc người được bà 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

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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

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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 [deanza.edu/admissions/forms.html](http://deanza.edu/admissions/forms.html). Course audits may not be approved to override repetition rules.

## CATALOG RIGHTS

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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

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### **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 ("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 or telephone messages, 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](http://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](http://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 including 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 or 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 or remedy. The complainant shall be informed in writing of the initiation of the investigation, and 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 or 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](http://www.copyright.gov), especially their FAQ's at [www.copyright.gov/help/faq](http://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 that students in college-approved, two-year degree A.A./A.S. programs 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. 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 [deanza.edu/collegeops/security.html](http://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](http://www.fhdapolice.org).

**DASB CARD POLICIES**

The DASB Card is the property of the De Anza Associated Student Body (DASB) and entitles the holder to access and service privileges, as long as the student is current in paying quarterly DASB membership fees. Access and privileges may be denied if the student is delinquent in paying fees.

The initial DASB Card is free with the payment of the quarterly membership fee. Subsequent or replacement cards will cost \$5 and are subject to the DASB's replacement card policies.

To avoid paying a replacement fee, students are encouraged to retain the card for future use when not continuously enrolled or when leaving campus for the summer. Students will not be charged a replacement fee if they leave campus and aren't enrolled for three quarters or more.

The DASB Card serves as an official identification card for access at 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 or attending college 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 Foothill-De Anza district police, college departments may not hold the DASB Card for any reason.

Recovered cards should be returned to the Office of College Life immediately.

If the DASB Card is lost, stolen or damaged, the Office of College Life should be notified immediately. The replacement fee will be waived if the card is stolen and a police report is provided to the Office of College Life. To be considered stolen, the card must be taken as a result of a burglary, theft, mugging or other crime. It won't be considered stolen if it is simply reported as lost property or if the student can't find it and thinks it was stolen.

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

**CLERY ACT STATISTICS**

CRIMINAL OFFENSES	ON CAMPUS			ADJACENT PUBLIC PROPERTY			DESIGNATED NON-CAMPUS PROPERTY		
	2015	2016	2017	2015	2016	2017	2015	2016	2017
Criminal Homicide	0	0	0	0	0	0	0	0	0
Sexual Offenses Forcible	2	0	1	0	0	0	0	0	0
Sexual Offenses Non-Forcible	1	0	0	0	0	0	0	0	0
Robbery	0	1	0	0	0	0	0	0	0
Burglary	4	1	2	0	0	0	0	0	0
Aggravated Assault	0	0	0	0	0	0	0	0	0
Motor Vehicle Theft	3	4	3	0	0	0	0	0	0
Arson	1	0	0	0	0	0	0	0	0
Dating Violence	0	1	0	0	0	0	0	0	0
Domestic Violence	1	1	0	0	0	0	0	0	0
Stalking	0	0	5	0	0	0	0	0	0
Hate Crimes	1	2	5	0	0	0	0	0	0
SPECIAL CATEGORY ARRESTS/REFERRALS	ON CAMPUS			ADJACENT PUBLIC PROPERTY			DESIGNATED NON-CAMPUS PROPERTY		
	2015	2016	2017	2015	2016	2017	2015	2016	2017
Liquor Laws	0	1	3	0	0	0	0	0	0
Drug Violations	5	8	18	0	0	0	0	0	0
Weapons Violations	3	3	3	0	0	0	0	0	0

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
- ❑ 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 3.3 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 he or she 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, it will be used as a factor in probation and dismissal procedures. (See section on "Progress

Probation.") A "W" is also used to calculate enrollment limits; that is, students may not enroll in the same course more than three times, which includes both "W" 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 quarter "Pass" (P) units can be applied toward De Anza College degrees.

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"

For 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 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 Area E: physical education, four units of Area E: personal development, and two 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 or 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 and 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, students are responsible for arranging their 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 a course or educational program.

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

### Challenging Prerequisites

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 Evaluations Department for the appropriate next steps at [evaluations@deanza.edu](mailto:evaluations@deanza.edu).

## ADMISSIONS & RECORDS PRIORITY ENROLLMENT

De Anza follows state and local requirements for priority enrollment. These 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.

To qualify for priority enrollment, students must follow these steps

1. Declare a major on their application – not "Undecided."
2. Select a goal of transfer, degree or certificate.
3. Complete the assessment process. De Anza uses several methods to assess students in Language Arts and Mathematics, so they can be placed in the right courses for their level of knowledge. Most students will be assessed on the basis of their U.S. high

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school transcripts and GPA, but the college may also use placement test results, Advanced Placement (AP) Exam scores or completion of college-level coursework. Learn more at [deanza.edu/assessment](https://deanza.edu/assessment).

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 <https://link.deanza.edu/orientation> for details.
5. Create 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. Learn more at <https://link.deanza.edu/edplan>. 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 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 <https://link.deanza.edu/priority>.

## 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 affect your California College Promise eligibility. Visit [deanza.edu/financialaid/types/waivers.html](https://deanza.edu/financialaid/types/waivers.html) for more information. Current and detailed information on the De Anza Probation policy can be found on the Counseling and Advising website at [deanza.edu/counseling/probation.html](https://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 or 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 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 the 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 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, Psychological Services 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 for 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 administrative procedures for 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, conflicts and misunderstandings may arise from time to time. As a student, you have certain rights under the rules and regulations of the college, the Foothill-De Anza college district and the state of California.

If you feel that your rights have been violated by the college, you have the right to seek a resolution. The Foothill-De Anza board of trustees established Administrative Procedure 5530: Student Grievances, to provide an avenue for relief. De Anza's student grievance procedures are summarized in the following steps.

**Step 1:** You must first try to solve the problem informally with the instructor or staff member. You must meet with the others involved and try to resolve the problem.

\* Foothill-De Anza's Administrative Procedures: Investigation and Resolution of Complaints Regarding Harassment and Discrimination, Procedures to Resolve Student Complaints of Sexual Harassment and Discrimination, and the district's Unlawful Discrimination Complaint forms are available in the president's office, the office of the vice president for Student Services, the district human resources office, and the district chancellor's office. Detailed information regarding the sexual harassment, mutual respect, and ADA policies are located at the following campus locations: the president's office, the office of the vice president for Student Services and the office of the dean of Student Development in Student Services.

**Step 2:** If you are unable to resolve the issue at the first level, you must meet with the manager of the other person involved in the dispute – either the division dean for a faculty member or the supervisor for a college administrator or classified professional staff member.

**Step 3:** If situation is still unresolved, you must confer with the vice president who oversees the division dean or supervisor, or with the vice president's designee.

**Step 4:** If you still aren't satisfied, you may consult with the dean of Student Development or designate, and if the administrator advises that your complaint is appropriate for the grievance process, you may file a formal grievance form. You will need to provide the specific rule or law that you feel was violated, as well as all of the details of the situation. Provide copies of any pertinent documents. Don't delay: You must file no more than 30 days after learning of the event or the latest of a series of events that form the basis of the grievance. In addition, you must file within a year after the alleged violation occurred, regardless of when you learned of it. You may only file a grievance if you are a current student or if you were a student no more than 30 days before filing.

**Step 5:** Pick up a Student Grievance form from the Office of Student Development, the Office of College Life or the Office of the Vice President of Student Services. You can receive assistance with completing the form from any faculty or staff member.

**Step 6:** File your completed Student Grievance form with the Office of Student Development in Hinson Campus Center Room 165. Please do not return the completed Grievance form to any other office. You will receive acknowledgement that your grievance was received, usually within two weeks.

**Step 7:** The Grievance Review Board will review your grievance and decide if it meets the standards for filing and for further consideration. The office of Student Development will contact you if the board agrees to schedule a hearing.

**Step 8:** The nature of the hearing will differ according to the circumstances and the discretion of the grievance officer. You and

the others involved can be accompanied by, or represented by, any other individual who is not an attorney. You may purchase a copy of the official record of the hearing.

**Step 9:** The Grievance Review Board will try to decide – within 14 days after the hearing – the outcome of your grievance and whether you are entitled to any relief. The board will forward its recommendation to the dean of Student development, who will forward it to the college president.

**Step 10:** The president or the president's designee will have the final decision regarding the outcome of your grievance. If any violation is determined to be the result of a district rule, or some other factor outside the college's control, the president or the president's designee will recommend appropriate action to the district chancellor or trustees. The president's office will notify you in writing of the outcome.

## STUDENT RIGHT-TO-KNOW AND CAMPUS SECURITY ACT

The following information on completion and transfer rates is provided in accordance with the federal Student Right-to-Know and Campus Security Act.

- Completion rate: 62.38 percent
- Transfer rate: 6.95 percent

These rates are based on tracking a cohort of all certificate-, degree-, and transfer-seeking first-time, full-time students over a three-year period beginning in fall 2014. The rates do not represent the success rates of the entire student population at the college nor do they account for student outcomes occurring after this three-year tracking period.

For this cohort, the completion rate indicates those students who attained a certificate or degree or who became "transfer prepared" during the period from fall 2014 to spring 2017. Students who completed 90 transferable units with a GPA of 2.0 or better are considered "transfer prepared." The transfer rate indicates those students who transferred to another post-secondary institution, prior to attaining a degree, certificate, or becoming "transfer prepared" during a five-semester period from spring 2015 to spring 2017.

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 [deanza.edu/police/clerystatistics.html](http://deanza.edu/police/clerystatistics.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
- 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

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## TEXTBOOK AFFORDABILITY AND ACCESSIBILITY OPTIONS

De Anza recognizes that the cost of textbooks and other materials can have a direct impact on students' ability to achieve their educational goals. Instructors are working to provide more free and low-cost options for textbooks and other required materials. Students can learn more about these options by visiting [deanza.edu/save-on-books](http://deanza.edu/save-on-books).

While the college makes every reasonable effort to determine that the information listed in the online schedule is accurate, 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. Students should review the class listings at [deanza.edu/schedule](http://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 [deanza.edu/titleix](http://deanza.edu/titleix).

### To File A Complaint

**Contact:** Title IX Coordinator

**Location:** Administration Building,  
Room 122

**Telephone:** 408.864.5394

**Email:** [dactitleIX@deanza.edu](mailto:dactitleIX@deanza.edu)

## TRANSCRIPTS

Students can order transcripts in writing from the Admissions office, or by ordering through MyPortal or the website of De Anza's authorized transcript provider. Transcripts will be sent electronically or mailed in hard copy, depending on the arrangement with the receiving institution. Students are entitled to two free transcripts if they submit the request in writing, indicating that the request is not a rush order and that it should be counted as a free copy. All other orders will be subject to published fees. See [deanza.edu/admissions/order-transcripts.html](http://deanza.edu/admissions/order-transcripts.html) for more information.

## TRANSFER CREDIT FROM OTHER COLLEGES

Students transferring from another regionally 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 the Admissions office. A request for transcript evaluation should be submitted to Admissions 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 Admissions 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 Admissions 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 the Admissions office.

### 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 office.

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

## 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. 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 to complete the special petition form.
- 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 32-43 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.

- Students must complete 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.
- 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 (90 quarter 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 semester 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:** For more information and a list of available A.A.-T./A.S.-T. degrees go to [deanza.edu/articulation/apply-adt.html](http://deanza.edu/articulation/apply-adt.html)

### **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 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. 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 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.
- 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 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 department also offer Skills Certificates. These certificates are issued by the department and are not notated on official college transcripts. 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.

## 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.

# DE ANZA COLLEGE TOPS in CAREER TRAINING



# ACADEMIC YEAR 2018-2019 CERTIFICATES AND DEGREES AT A GLANCE

Certificates and Degrees	Certificates and Degrees			Certificates and Degrees
	Skills Certificate	Certificate of Achievement	Certificate of Achievement-Advanced AA/AS Degree	
Accounting	◆	◆	◆	Graphic and Interactive Design
Administration of Justice				Health Technologies
Corrections/Probation			◆	Business Office Clerk
Cyber Forensics and Investigations		◆		Insurance and Coding
Law Enforcement		◆	◆	Lab Assisting
Private Security		◆	◆	Medical Assisting
Art				Medical File Clerk
Art History		◆	◆	Medical Reception
Ceramics			◆	Medical Records Clerk
Museum Studies	◆			Medical Secretary
Painting			◆	Medical Transcription
Sculpture			◆	Phlebotomy Technician I
Spatial Art			◆	Humanities
Automotive Technician (Evening)				Intercultural Studies
Automotive General Service Technician	◆			Journalism
Advanced Engine Performance Technology	◆	◆	◆	Leadership and Social Change
Automotive Chassis Technology	◆	◆	◆	Liberal Arts
Automotive Machining and Engine Repair Technology	◆	◆	◆	Arts and Letters
Automotive Powertrain Technology	◆	◆	◆	Business and Computer Information Systems
Basic Engine Performance Technology	◆			Science, Math, and Engineering
Intermediate Engine Performance Technology	◆			Social and Behavioral Sciences
Smog Technician	◆			Management
Automotive Technology (Day)				Mandarin
Advanced Automotive Technology	◆			Marketing Management
Automotive Chassis and Powertrain		◆	◆	Massage Therapy
Automotive Engine Performance		◆	◆	Medical Laboratory Technology
Automotive Machining and Engine Repair		◆	◆	Clinical Laboratory Assistant
Biological Sciences				Medical Laboratory Technology (MLT)
Business Administration	◆		◆	Music
Business Information Worker	◆			Nursing
Entrepreneurship	◆			LVN Transition to RN
Child Development	◆	◆	◆	Registered Nurse (RN)
Early Childhood Mental Health	◆			Paralegal Studies
Early Intervention/Special Education Assistant		◆		Photographic Arts (Film and Digital)
Communication Studies	◆		◆	Professional Photography (Film and Digital)
Computer Information Systems				Project Management Practitioner
Database Design for Developers (Oracle)	◆			Public Relations
Enterprise Security Professional	◆	◆	◆	Real Estate
Network Administration	◆	◆	◆	Women's Studies
Programming/Network Programming				
Business Programming		◆	◆	<b>Associate Degree for Transfer to CSU (AA-T &amp; AS-T)</b>
Network Basics	◆			Administration of Justice
Network Programming		◆	◆	Anthropology
Programming in C/C++	◆			Business Administration
Programming in Java	◆			Communication Studies
Programming in Perl	◆			Computer Science
Programming in Python	◆			Early Childhood Education
Systems Programming		◆	◆	Economics
UNIX/LINUX Operating System	◆			English
Visual Basic Programming	◆			History
Web Development	◆			Journalism
Design and Manufacturing Technologies				Kinesiology
Computer Aided Design - Mechanical	◆			Mathematics
CNC Machinist	◆	◆	◆	Political Science
CNC Programming - CAD/CAM	◆			Sociology
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	◆	◆	◆	

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 for the most current information.**



# 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 or university for information about admissions qualifications and application procedures, as these vary by institution and are subject to change. It is recommended that students work closely with a counselor or academic adviser to identify appropriate coursework to fulfill lower-division general education and major requirements. With careful planning, students planning to transfer may also complete the graduation requirements for a De Anza Associate in Arts or Associate in Science degree.

## 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 not 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 four-year institutions. Students should consult with a counselor or academic adviser to confirm transfer credits and to develop an educational plan for transfer. While students are strongly encouraged to work with a counselor or academic adviser, 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 or another California community college (CCC) 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 COMM 16 (C-ID COMM 130) at De Anza 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](http://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 baccalaureate colleges and universities. Courses approved for credit at such institutions are listed on these articulation agreements. Department course-to-course, general education and major preparation agreements are available online at [www.ASSIST.org](http://www.ASSIST.org) (for UC and CSU campuses only) and [deanza.edu/articulation/about.html](http://deanza.edu/articulation/about.html).

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 (STATEWIDE ARTICULATION WEBSITE)

ASSIST is the official statewide repository for articulation information for California public colleges and universities. ASSIST is the primary website to use to identify which specific De Anza courses fulfill general education and/or major preparation requirements at a UC or CSU campus. 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](http://www.ASSIST.org).

## ARTICULATION AND TRANSFER SERVICES WEBSITE

The De Anza Articulation and Transfer Services website at [deanza.edu/articulation/](http://deanza.edu/articulation/) offers a variety of information that includes but is not limited to the following:

- Articulation agreements and transfer credit guides
- General education requirements for transfer
- Advanced Placement (AP) and International Baccalaureate (IB) exam credit for CSUGE and IGETC
- Guarantee Admission
  - University of California Transfer Admission Guarantee (TAG)
  - CCCCO-Historically Black Colleges and Universities (HBCU) Guaranteed Transfer program
  - Transfer Admission Agreements with private/out-of-state colleges and universities
- Applying for an Associate Degree for Transfer (ADT)
- Important dates, deadlines and updates

## TRANSFER TO THE UNIVERSITY OF CALIFORNIA

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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 that are offered, the size of the student body, and the physical environment are just a few of the factors that contribute to the distinctive character of each campus. Transfer admission requirements vary by campus and by major as well. Academic preparation and grade point average are factors reviewed by campuses and programs as part of the selection process. These criteria vary from year to year and from campus to campus based on the number and qualifications of applicants. Comprehensive information about the UC system and campuses is available at [admission.universityofcalifornia.edu/transfer/index.html](http://admission.universityofcalifornia.edu/transfer/index.html).

The UC considers an applicant to be a transfer student if the applicant has enrolled in a regular session at a college or university after high school. Students who meet this definition cannot disregard their college records and apply as freshmen. A student who takes a class or two during the summer term immediately following high school graduation is not considered a transfer student.

While at De Anza and prior to applying to the UC, students are advised to research campus catalogs and websites, contact UC campus Admissions Offices, and consult with a counselor or academic adviser to confirm appropriate course selection for admission.

The following information was taken from the UC Quick Reference for Counselors guide. De Anza is not responsible for any changes the UC may make to this information after publication of this catalog.

### Admission Requirements for Junior-Level Transfers

The majority of transfer students come to UC at the junior level from California community colleges. The requirements described below represent the minimum academic standards all students must attain to be considered for admission to UC. Meeting the minimum requirements does not guarantee admission to UC. Often, admission to UC campuses and/

or programs is extremely competitive and requires students to meet more demanding standards.

### Minimum Requirements

To be considered for admission as a junior transfer, a student must meet the following criteria:

- Complete 90 quarter (60 semester) units of UC-transferable college credit with a GPA of at least 2.4 (2.8 for nonresidents). No more than 21 quarter (14 semester) units of the required 90 units may be taken Pass/Not Pass, unless the student is transferring from a college or university that awards only pass credit
- Be in good academic standing (2.0 GPA or better) at the last institution of attendance and at any previous UC campus where the student was enrolled in a regular term (e.g., fall, winter, spring)
- Complete the following seven-course pattern, 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, and physical and biological sciences

The above seven courses may be completed with a Pass/Credit/Satisfactory grade if such designations are equivalent to a letter grade of "C" (2.0) or better. Additionally, AP exams with scores of 3, 4 or 5 can also be used. Please note: Only one of the two English composition/literature courses required can be met with an exam score.

If a student meets the Intersegmental General Education Transfer Curriculum (IGETC) prior to transferring, he or she may meet the seven-course pattern.

All UC campuses recommend that students complete math and English as early as possible, though some highly recommend or require completion by the end of the fall term, one year prior to enrolling at UC.

### Lower-Division Transfers

Some UC campuses may admit a limited number of transfer students before they reach junior standing.

Visit [admission.universityofcalifornia.edu/how-to-apply/check-majors/index.html](http://admission.universityofcalifornia.edu/how-to-apply/check-majors/index.html) to learn if a UC campus will accept applications from lower-division transfers.

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 by campus and by major.

### 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.

## TRANSFER TO THE CALIFORNIA STATE UNIVERSITY

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The California State University (CSU) system gives priority admission consideration to CCC students who meet the CSU upper-division transfer admission requirements. However, the highest admission priority is given to CCC students who have earned a CCC Associate Degree for Transfer (ADT). CCC students will be considered as having achieved junior class level standing once they have completed an ADT or at least 90 quarter (60 semester) CSU-transferable level units that meet their lower-division major requirements.

While at De Anza and prior to applying to the CSU, students are advised to research campus catalogs and websites, contact CSU campus admissions offices, and consult with a counselor or academic adviser to confirm appropriate course selection for admission. For more information about a specific CSU campus, consult the university's general catalog. Comprehensive information about the CSU system and campuses is posted online at [www2.calstate.edu/apply/transfer](http://www2.calstate.edu/apply/transfer).

The following information was obtained from the CSU Admission Handbook. De Anza is not responsible for any changes CSU may make to this information after publication of this catalog.

### Upper-Division Transfer Admission Requirements

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

- Must complete at least 45 quarter (30 semester) units of general education courses. Visit [www.ASSIST.org](http://www.ASSIST.org) for a listing of De Anza courses that meet CSU general education requirements.
- Must complete transferable courses with grades of C or better in written communication, oral communication and critical thinking (CSUGE Area A)
- Must complete one transferable course with a grade of C or better in mathematics or quantitative reasoning (CSUGE Area B4)
- Must have achieved a cumulative grade point average of 2.0 or better in all CSU-transferable college units attempted
- Be 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 90 quarter (60 semester) 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

- Have completed, with a grade of C- or better, a course in written communication and a course in mathematics or quantitative reasoning at a level satisfying CSU General Education Breadth Areas A2 and B4 requirements, respectively
- Be in good standing at the last institution attended
- Meet any one of the following eligibility standards:
  - **Transfer Based on Current Admission Criteria**  
Meet the freshman admission requirements in effect for the term for which application is filed;  
– OR –
  - **Transfer Based on High School Eligibility**  
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:**  
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  
One baccalaureate level course of at least 4 quarter (3 semester) units is usually considered equivalent to one year of high school study.

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. 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.

### Associate Degrees for Transfer (ADT) to the CSU

The Student Transfer Achievement Reform Act (SB 1440) established an Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T) for CCC students. The AA-T/AS-T degrees are designed to provide a pathway to a CSU degree major. For information on meeting the requirements for an AA-T/AS-T degree, students should consult with a counselor or academic adviser in the De Anza Transfer Center or Counseling and Advising Center.

To view a current list of De Anza AA-T/AS-T degrees, visit [deanza.edu/academics/degrees-and-certificates.html](http://deanza.edu/academics/degrees-and-certificates.html). Visit [deanza.edu/articulation/apply-adt.htm](http://deanza.edu/articulation/apply-adt.htm) to view information about how to apply for an AA-T/AS-T degree at De Anza.

## TRANSFER TO PRIVATE AND OUT-OF-STATE COLLEGES AND UNIVERSITIES

Private (or independent) and out-of-state colleges and universities have transfer admissions requirements that are specific to each campus and major. For information on private colleges and universities in California, visit [www.californiacolleges.edu](http://www.californiacolleges.edu). This website provides online resources to help students choose an institution that best match their needs and interests. Information on transfer admission requirements and transfer credit policies for out-of-state colleges and universities can be found in university catalogs and on school websites.

## GUARANTEED ADMISSION

A Transfer Admission Guarantee (TAG) or Transfer Admission Agreement (TAA), is a commitment that select colleges and universities provide to De Anza students who fulfill specific GPA and course requirements. A TAG/TAA serves as a contract between a student and a transfer college or university. Students who complete a TAG/TAA and meet the contractual requirements are guaranteed admission to the university. Guaranteed admission contracts are generally written one year prior to transfer.

Students may prepare for a TAG/TAA by working with a counselor or academic adviser early in their academic career to develop an education plan for transfer.

With a TAG/TAA in place, students have the benefit of knowing that each course completed has been agreed upon and that any loss of credit will be minimized by the participating transfer institution.

The following institutions participate in a guaranteed admission program with De Anza, however, these agreements are subject to change without notice:

#### University of California

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

#### Private Colleges and Universities

- Arizona State University
- Santa Clara University
- University of the Pacific

#### Historically Black Colleges and Universities (HBCUs)

Participating HBCUs provide guaranteed transfer to De Anza and California community college students who complete certain academic requirements. For a current list of participating HBCUs, visit [cccoco.edu/HBCUTransfer.aspx](http://cccoco.edu/HBCUTransfer.aspx).

Students may visit [deanza.edu/articulation](http://deanza.edu/articulation) to view information about TAG/TAA eligibility, requirements, and deadlines and are encouraged to meet with a counselor or academic adviser in the De Anza Transfer Center or Counseling and Advising Center to learn how to initiate and fulfill a TAG/TAA.

## EFFECTIVE TRANSFER PLANNING STRATEGIES

### Determine transfer goals early

Deciding on a college and a major early enables students to focus on planning and meeting specific transfer goals. Students are encouraged to start researching transfer options early in their college career and to consider several colleges and alternative majors in their planning to maximize the chances for successful transfer.

### Be Competitive – Be “Transfer Ready” Do not wait until the last quarter to take math and English

Complete transferable math and English requirements as early as possible. Remember to consider any prerequisites any prerequisite advisories associated with each course and utilize tutoring support services on campus,

as needed.

### Conduct research on prospective transfer institutions

Successful transfer requires planning early and understanding what is required to transfer, including:

- minimum transfer admission requirements
- lower-division major requirements
- competitive GPA for the major and campus
- application process and deadlines

Information regarding transfer is subject to change so it is important for students to check university websites and other available resources periodically for updates and changes to transfer admission and/or major requirements.

### Develop an education plan for transfer

Consult with a counselor or academic adviser to identify required coursework and include in an education plan for transfer.

### Complete general education (GE) requirements

To be as competitive as possible, complete all or as many lower-division GE courses as possible prior to transfer. Students pursuing high-unit majors are generally advised to focus on completing major preparation coursework while meeting the minimum admission requirements for transfer. For students who plan to complete CSUGE or IGETC (see pages 47 and 49), remember to request GE certification from De Anza’s

Admissions and Records Office.

### 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 courses prior to transfer. This is especially true for high-unit majors (e.g. science and engineering). Visit [www.ASSIST.org](http://www.ASSIST.org) for lower-division major requirements for transfer to the CSU and UC campuses.

### Develop relationships with instructors, counselors, and academic advisers

This is especially helpful as applications for admission and scholarships may require letters of recommendation.

### Keep course syllabi

Students should retain the course syllabi for all completed classes and select course materials (e.g. writing samples, final exams, etc.) in case a transfer institution requests such documentation.

### Check and update your email on a regular basis

Most colleges use email as their primary means of communication with students. It is important to make sure that colleges and universities have the most current email address on file and to check messages often to ensure compliance with any requests, requirements, and deadlines.

### Keep on top of deadlines



# GENERAL EDUCATION REQUIREMENTS 2018-2019

## Effective Fall 2018 through Summer 2019

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 32 and 43 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](http://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 [deanza.edu/articulation](http://deanza.edu/articulation).

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](http://www.ASSIST.org) or [deanza.edu/articulation](http://deanza.edu/articulation)

## GENERAL EDUCATION/BREADTH REQUIREMENTS SUMMARY

De Anza College A.A./A.S. Degree General Education Requirements (for students who want an A.A./A.S. Degree)	California State University (CSU) GE Breadth—All Campuses General Education/Breadth Requirements	UC/CSU—All Campuses** Intersegmental General Education Transfer Curriculum (IGETC)
<b>Quarter Units</b>	<b>Quarter Units</b>	<b>Quarter Units</b>
<b>Area A: Communication, Expression, Critical Thinking, and Information Literacy</b> 10-15 1. English Composition 2. Oral Communication 3. Critical Thinking <i>(if completing the AS degree this sub-area is satisfied)</i>	<b>Area A: English Language Communication and Critical Thinking</b> 12-15 1. Oral Communication 2. Written Communication 3. Critical Thinking <b>Area B: Scientific Inquiry and Quantitative Reasoning</b> 12-15 1. Physical Science 2. Life Science 3. Laboratory Activity 4. Mathematics/Quantitative Reasoning <b>Area C: Arts and Humanities</b> 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 <b>Area D: Social Sciences</b> Min. 12-15 Select three courses from at least two disciplines (One ICS course in Area C or D) <b>Area E: Lifelong Learning and Self-Development</b> 4-5	<b>Area 1: English Communication</b> 10-14 a. English Composition b. Critical Thinking – English Composition c. Oral Communication (CSU only) <b>Area 2: Mathematical Concepts &amp; Quantitative Reasoning</b> 4-5 <b>Area 3: Arts &amp; Humanities</b> 12-15 At least three courses including one from Arts and one from Humanities. <b>Area 4: Social &amp; Behavioral Sciences</b> 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.) <b>Area 5: Physical &amp; Biological Sciences</b> 9-12 At least two courses, one Physical Science and one Biological Science; one must include a laboratory. <b>Area 6: Language other than English (UC only)</b>
<b>Area B: Natural Sciences</b> 4-6 One course from the Physical or Biological Sciences		
<b>Area C: Arts and Humanities</b> 8-9 Two courses: one from Arts and one from Humanities (One ICS course in Area C or D)		
<b>Area D: Social &amp; Behavioral Sciences</b> 8 Two courses (One ICS course in Area C or D)		
<b>Area E: Physical/Mental Wellness and Personal Development</b> 2-5 2 units minimum. At least one unit must be completed from Dance, Kinesiology, PE or PEA Activities.		
<b>Graduation requirements also include:</b> <ul style="list-style-type: none"> <li>Proficiency in reading and written expression which is met by Area A1 above. Course must be completed with a grade of "C" or better.</li> <li>Proficiency in mathematics which may be met by completing 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) earning a satisfactory score on the De Anza College Level Math Placement Test.</li> <li>Completion of one Environmental Sustainability and Global Citizenship (ESGC) approved course selected from an Area listed above.</li> </ul>	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 <a href="http://deanza.edu/counseling/forms.html">deanza.edu/counseling/forms.html</a> .	<b>Total Units: 47-61</b>  You must request certification by completing the official certification form available at Admissions and Records and online at <a href="http://deanza.edu/counseling/forms.html">deanza.edu/counseling/forms.html</a>
<b>Total Units: 32-43</b>	<b>Minimum Units: 58</b>	
	* ESL 6 restricted to students whose native language is not English.	** 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 2018-2019**

Effective: Fall 2018 through Summer 2019



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 College Level Math Placement Test.
- Completion of General Education requirements with a minimum GPA of 2.0.

<b>AREA A: COMMUNICATION, EXPRESSION, CRITICAL THINKING, AND INFORMATION LITERACY</b>		<b>10 - 15 Quarter Units</b>
<input type="checkbox"/>	<b>A1 - English Composition</b> - 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: <b>EWRT 1A, 1AH or ESL 5▲</b>	<b>5 Units</b>
<input type="checkbox"/>	<b>A2 - Oral Communication</b> - Select one course: <b>COMM 1, 1H, 10, 10H</b>	<b>5 Units</b>
<input type="checkbox"/>	<b>A3 - Critical Thinking</b> - For the A.A. degree, select one of the following courses: (If completing the A.S. degree, this sub-area is satisfied.) <b>COMM 8, 8H, 9, 9H, 15, 15H, EWRT 2, 2H, EDUC 46, MATH 10, 10H, 17, 44, 46, PHIL 3, 4, 7</b>	<b>0-5 Units</b>
<b>AREA B: NATURAL SCIENCES</b>		<b>4 - 6 Quarter Units</b>
<input type="checkbox"/>	Select <b>one</b> course in the <b>Biological</b> or <b>Physical Sciences</b> category. Note: Completion of the nursing major clears this requirement. <u>Underlined</u> courses have a laboratory component.	
	<b>Biological Sciences:</b> ANTH 1, 1H, 1/1L, 1H/1L, 7, BIOL <u>6A, 6AH, 6C▲, 6CH▲, 10▲, 10H▲, 11▲, 13, 15▲, ESCI 1▲, 1▲/1L, 19▲, 20▲, 30@▲, ES 2@▲, 50@▲</u>	
	<b>Physical Sciences:</b> ASTR 4, 4/15L, 10, 10/15L, <u>CHEM 1A, 10, 25, GEO 1▲, GEOL 10, 20, MET 10, 10/10L, 10/20L, PHYS 2A, 4A, 10</u>	
<b>AREA C: ARTS AND HUMANITIES</b>		<b>8 - 9 Quarter Units</b>
	Select <b>one</b> course from the <b>Arts</b> category and <b>one</b> course from the <b>Humanities</b> category.	
<input type="checkbox"/>	<b>C1 - Arts:</b> ARTS 1A, 1B, 2A, 2B, 2C, 2D, 2F*, 2G, 2H, 2J, 2K, 2L, 3TC@, 3TD, 3TE, <b>DANC 38A, ES 3@▲, F/TV 1, 1H, 2A@, 2AH@, 2AW@, 2AWH@, 2B@, 2BH@, 2BW@, 2BWH@, 2C@, 2CH@, 2CW@, 2CWH@, 75G, HUMI 1@▲, 1H@▲, 15, ICS 5, 33, 45, INTL 10, 21, 22, 23, 24, MUSI 1A, 1B, 1C, 1D, PHTG 7, 21, THEA 1, WMST 3C@</b>	
<input type="checkbox"/>	<b>C2 - Humanities:</b> ELIT 8, 10, 10H, 11, 12, 17, 17H, 19, 21, 22, 24*, 38, 39, 40, 41, 41H, 44, 46A, 46AH, 46B, 46BH, 46C, 46CH, 47A, 47B, 48A, 48AH, 48B, 48BH, 48C, 48CH, <b>ESL 6▲, EWRT 1B, 1BH, 1C, 30, ES 2@▲, F/TV 2A@, 2AH@, 2AW@, 2AWH@, 2B@, 2BH@, 2BW@, 2BWH@, 2C@, 2CH@, 2CW@, 2CWH@, 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 8*@, 21, 22*@, 25*@, 26*@, 29*@, 31*@, 49</b>	
<b>AREA D: SOCIAL AND BEHAVIORAL SCIENCES</b>		<b>8 Quarter Units</b>
	Select <b>two</b> courses from <b>Area D</b> .	
<input type="checkbox"/>	<b>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▲, 3H▲, 4, 5, ES 1▲, 2@▲, 3@▲, 4▲, 50@▲, F/TV 10, 10H, 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@, 10H@, 30@, 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▲, 1H▲, 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*@</b>	
<b>AREA E: PHYSICAL/MENTAL WELLNESS AND PERSONAL DEVELOPMENT</b>		<b>2 - 5 Quarter Units</b>
	At least <b>one unit</b> must be completed from <b>DANC/KNES/PE/PEA</b> Activities.	
	<b>Personal Development:</b> <b>ANTH 2@, 2H@, BUS 56, C D 61, 64, COMM 16@, 16H@, CIS 2@, CLP 70, ES 2@▲, ESCI 30@▲, HLTH 21, HIST 9@, 9H@, HUMA 10@, 10H@, 20, 30@, 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@</b>	
	<b>Dance (DANC) / Kinesiology (KNES) / Physical Education (PE) / Physical Education - Adapted (PEA) Activities:</b> <b>DANC 22, 22K, 22L, 22M, 23A, 23B, 23C, 23L, 23M, 23N, 24A, 24B, 24C, 25A, 25B, 37A, 37B, 37C</b> <b>KNES 1A, 1B, 1C, 1CX, 1D, 1DX, 2A, 2AX, 2B, 2BX, 5A, 5AX, 5B, 5BX, 5C, 5CX, 6A, 6AX, 7A, 7AX, 7D, 7DX, 7G, 7GX, 7H, 9A, 9AX, 9B, 9BX, 11A, 11AX, 12A, 12AX, 12B, 12BX, 12D, 12DX, 12E, 12EX, 12G, 12H, 12HX, 12J, 12JX, 15A, 15AX, 15C, 15CX, 15E, 15EX, 15EY, 15F, 15FX, 16A, 16AX, 16AY, 16B, 16BX, 17A, 17AX, 19A, 19AX, 19B, 19BX, 19D, 19DX, 19E, 19EX, 19G, 19GX, 20A, 20AX, 22A, 22AX, 22B, 22BX, 22C, 22CX, 22D, 22DX, 22E, 22EX, 25A, 25AX, 25B, 25BX, 26A, 26AX, 26B, 26BX, 29A, 29B, 30A, 30B, 30BX, 30C, 31A, 31AX, 31B, 31BX, 31C, 31CX, 32A, 32AX, 32B, 32BX, 32C, 32CX, 32D, 32DX, 33A, 33AX, 33AY, 36A, 36AX, 37A, 37AX, 37B, 37BX, 37C, 37CX, 37D, 37DX, 37E, 38A, 38AX, 38B, 38BX, 38C, 38CX, 38D, 38DX, 39A, 39AX, 39B, 39BX, 39C, 39CX, 39DX, 40A, 40AX, 41A, 41AX, 42A, 42AX, 42B, 42BX, 42C, 42CX, 42D, 42DX, 50AL, 51AL</b> <b>P E 32B, 32F, 32G, 32H, 32HX, 32I, 32IX, 32J, 32JX, 32K, 32L, 32LX, 32M, 32MX, 32N, 32P, 32S, 32SX, 32T, 32W, 38W, 38WX, 38WY, 39M, 39MX, 39MY, 39W, 39WX, 39WY, 40, 40X, 40Y, 41, 41X, 41Y, 42W, 42WX, 42WY, 43, 43X, 43Y, 44M, 44MX, 44MY, 44W, 44WX, 44WY, 45, 45X, 45Y, 46, 46X, 46Y, 47M, 47MX, 47MY, 47W, 47WX, 47WY, 48M, 48MX, 48MY, 48W, 48WX, 48WY</b> <b>PEA 1, 1X, 1Y, 1Z, 2, 2X, 2Y, 2Z, 4, 4X, 4Y, 4Z, 5, 5X, 5Y, 5Z, 6Y</b>	
<input type="checkbox"/>	<b>REQUIREMENT: One ICS course selected from Area C or D above (course may be double-counted to meet Area and ICS requirements)</b>	
<input type="checkbox"/>	<b>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)</b>	
		<b>Total Units (32 - 43 Quarter Units)</b>

\* - In addition to ICS, courses with asterisks meet ICS requirement in Area C or D.

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

▲ - Course meets Environmental Sustainability and Global Citizenship (ESGC) requirement.

**Transfer to All Campuses - California State University (CSU)**  
**CSU General Education/Breadth Requirements for 2018-2019**  
 Effective: Fall 2018 through Summer 2019 ♦

DeAnza 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](http://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 and Records Office, through the Counseling and Advising Center, and online at [deanza.edu/counseling/forms.html](http://deanza.edu/counseling/forms.html).

Use the columns located to the right to track units in-progress/planned and completed: <b>IP/P</b> = In-Progress/Planned <b>C</b> = Completed		Units IP/P	Units C
<b>AREA A: ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING</b>		<b>12-15 Quarter Units</b>	
At least <b>1 course each</b> from <b>Areas A1, A2 and A3</b> . All courses must be completed with a grade of C or better.			
<b>A1 – Oral Communication</b>	<b>COMM 1, 1H, 10, 10H</b>		
Other Course: _____ College: _____ <b>No AP/IB Exam Credit for Area A1</b>			
<b>A2 – Written Communication</b>	<b>EWRT 1A, 1AH or ESL 5</b>		
Other Course: _____ College: _____ AP Exam Credit: _____ Qtr. Units: _____			
<b>A3 – Critical Thinking</b>	Select one course from the following: <b>COMM 8, 8H, 9, 9H, 15, 15H or EWRT 2, 2H or PHIL 3, 4, 7</b>		
Other Course: _____ College: _____ <b>No AP/IB Exam Credit for Area A3</b>			
<b>AREA B: SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING</b>		<b>12-15 Quarter Units</b>	
At least <b>1 course each</b> from <b>Physical Science, Life Science and Mathematics/Quantitative Reasoning</b> . At least <b>1 science course</b> must contain a laboratory component. Courses with a laboratory are <u>underlined</u> .			
<b>B1 – Physical Science</b>	<b>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</b>		
Other Course: _____ College: _____ AP/IB Exam/CLEP Credit: _____ Qtr. Units: _____			
<b>B2 – Life Science</b>	<b>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</b>		
Other Course: _____ College: _____ AP/IB Exam/CLEP Credit: _____ Qtr. Units: _____			
<b>B3 – Laboratory Activity</b>	( <u>Underlined</u> courses in Areas B1 and B2 include a lab.) <b>AP Exam (See credit in Area B1 or B2 above)</b>		
<b>B4 – Mathematics/Quantitative Reasoning</b>	(A grade of C or better is required.) Select one course from the following: <b>EDUC 46, MATH 1A, 1AH, 1B, 1BH, 1C, 1CH, 1D, 1DH, 2A, 2AH, 2B, 2BH, 10, 10H, 11, 12, 17 (through summer 2019), 22, 23, 41, 41H, 42, 42H, 43, 43H, 44, 46, PSYC 15, SOC 15</b>		
Other Course: _____ College: _____ AP/IB Exam/CLEP Credit: _____ Qtr. Units: _____			
<b>AREA C: ARTS AND HUMANITIES</b>		<b>12-15 Quarter Units</b>	
Select <b>3 courses</b> , with at least 1 course in the <b>Arts</b> and 1 course in the <b>Humanities</b> . <b>One ICS course</b> must be taken in <b>Area C or Area D</b> . <b>EWRT 1B, 1BH or ESL 6</b> is strongly recommended for students who do not select <b>COMM 9, 9H or EWRT 2, 2H or PHIL 3</b> in <b>Area A3</b> .			
<b>C1 – Arts: (Arts, Cinema, Dance, Music, Theater)</b>	<b>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#, 2AH#, 2AW#, 2AWH#, 2B#, 2BH#, 2BW#, 2C#, 2CH#, 2CW#, 2CWH#, 75G, HUMI 1#, 1H#, 15, ICS 5#, 33, 45, INTL 10, 21, 22, 23, 24, MUSI 1A, 1B, 1C, 1D, PHTG 7, 21, THEA 1, WMST 3C#</b>		
Other Course: _____ College: _____ AP/IB Exam Credit: _____ Qtr. Units: _____			
<b>C2 – Humanities: (Literature, Philosophy, Languages Other than English)</b>	<b>ESL 6, ELIT 8, 10, 10H, 11, 12, 17, 17H, 19, 21, 22, 24*, 38, 39, 40, 41, 41H, 44, 46A, 46AH, 46B, 46BH, 46C, 46CH, 47A, 47B, 48A, 48AH, 48B, 48BH, 48C, 48CH, EWRT 1B, 1BH, 1C, 30, F/TV 1#, 1H#, 2A#, 2AH#, 2AW#, 2AWH#, 2B#, 2BH#, 2BW#, 2C#, 2CH#, 2CW#, 2CWH#, 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 8*#, 21, 22*#, 25*#, 26*#, 29*#, 31*#, 49</b>		
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 [deanza.edu/articulation](http://deanza.edu/articulation) and [www.assist.org](http://www.assist.org) for updates during the spring 2019 term.  
 \* - In addition to ICS, courses with asterisks meet ICS requirement in Area C or D.  
 # - 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
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**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** or **1H** **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, 3H, 4, 5**, **E S 1, 3#**, **4**, **F/TV 10, 10H**, **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#, 10H#, 30#**, **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, 1H, 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#, 10H#, 20, 30#, 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, 22K, 22L, 22M, 23A, 23B, 23C, 23L, 23M, 23N, 24A, 24B, 24C, 25A, 25B, 37A, 37B, 37C**

**Kinesiology (KNES)/Physical Education (P E) Activity Courses:**

**KNES 1A, 1B, 1C, 1CX, 1D, 1DX, 2A, 2AX, 2B, 2BX, 5A, 5AX, 5B, 5BX, 5C, 5CX, 6A, 6AX, 7A, 7AX, 7D, 7DX, 7G, 7GX, 7H, 9A, 9AX, 9B, 9BX, 11A, 11AX, 12A, 12AX, 12B, 12BX, 12D, 12DX, 12E, 12EX, 12G, 12H, 12HX, 12J, 12JX, 15A, 15AX, 15C, 15CX, 15E, 15EX, 15EY, 15F, 15FX, 16A, 16AX, 16AY, 16B, 16BX, 17A, 17AX, 19A, 19AX, 19B, 19BX, 19D, 19DX, 19E, 19EX, 19G, 19GX, 20A, 20AX, 22A, 22AX, 22B, 22BX, 22C, 22CX, 22D, 22DX, 22E, 22EX, 25A, 25AX, 25B, 25BX, 26A, 26AX, 26B, 26BX, 29A, 29B, 30A, 30B, 30BX, 30C, 31A, 31AX, 31B, 31BX, 31C, 31CX, 32A, 32AX, 32B, 32BX, 32C, 32CX, 32D, 32DX, 33A, 33AX, 33AY, 36A, 36AX, 37A, 37AX, 37B, 37BX, 37C, 37CX, 37D, 37DX, 37E, 38A, 38AX, 38B, 38BX, 38C, 38CX, 38D, 38DX, 39A, 39AX, 39B, 39BX, 39C, 39CX, 39DX, 40A, 40AX, 41A, 41AX, 42A, 42AX, 42B, 42BX, 42C, 42CX, 42D, 42DX, 50AL, 51AL**

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

**Physical Education - Adapted (PEA) Activity Courses:**

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

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 [deanza.edu/articulation](http://deanza.edu/articulation) and [www.assist.org](http://www.assist.org) for updates during the spring 2019 term.

★ - In addition to ICS, courses with asterisks meet ICS requirement in Area C or D.

# - 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.

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 and Records Office. G.E. Certification Request Forms are available at the Admissions and Records Office, through the Counseling and Advising Center, and online at: [deanza.edu/counseling/forms.html](http://deanza.edu/counseling/forms.html).

Use the columns located to the right to track units in-progress/planned and completed: <b>IP/P</b> = In-Progress/Planned <b>C</b> = Completed		Units IP/P	Units C
<b>AREA 1: ENGLISH COMMUNICATION</b>		<b>10 - 15 Quarter Units</b>	
<b>CSU:</b> Select 3 courses, 1 course each from Groups 1A, 1B and 1C		<b>UC:</b> Select 2 courses, 1 course each from Groups 1A and 1B	
<b>Area 1A: English Composition</b> (1 course, 4-5 units):		<b>EWRT 1A, 1AH</b>	
Other Course: _____ College: _____ AP/IB Exam Credit: _____ Qtr. Units: _____			
<b>Area 1B: Critical Thinking-English Composition</b> (1 course, 4-5 units):		<b>COMM 9, 9H, or EWRT 2, 2H, or PHIL 3</b>	
Other Course: _____ College: _____		<b>No AP/IB Exam Credit for Area 1B</b>	
<b>Area 1C: Oral Communication (CSU Requirement Only)</b> (1 course, 4-5 units):		<b>COMM 1, 1H, 10*, 10H*</b>	
Other Course: _____ College: _____		<b>No AP/IB Exam Credit for Area 1C</b>	
<b>AREA 2: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING</b>		<b>4 - 5 Quarter Units</b>	
Select 1 course below.			
<b>MATH 1A*, 1AH*, 1B, 1BH, 1C, 1CH, 1D, 1DH, 2A, 2AH, 2B, 2BH, 10*, 10H*, 11, 12*, 17*</b> (through summer 2019), <b>22, 23*, 43*, 43H*, 44, PSYC 15*, SOC 15*</b>			
Other Course: _____ College: _____ AP/IB Exam Credit: _____ Qtr. Units: _____			
<b>AREA 3: ARTS AND HUMANITIES</b>		<b>12 - 15 Quarter Units</b>	
At least 3 courses below, including 1 course from the <b>Arts</b> and 1 from <b>Humanities</b> .			
<b>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#*, 2AH#*, 2AW#*, 2AWH#*, 2B#*, 2BH#*, 2BW#*, 2C#*, 2CH#*, 2CW#*, 2CWH#*, HUMI 1#, 1H#, 15, ICS 5, 33, 45, INTL 10, 21, 22, 23, 24, MUSI 1A, 1B, 1C, 1D, PHTG 7, 21, THEA 1, WMST 3C#</b>			
Other Course: _____ College: _____ AP/IB Exam Credit: _____ Qtr. Units: _____			
<b>3B – Humanities: ELIT 8, 10, 10H, 11, 12, 17, 17H, 19, 21, 22, 24, 38, 39, 40, 41, 41H, 44, 46A, 46AH, 46B, 46BH, 46C, 46CH, 47A, 47B, 48A, 48AH, 48B, 48BH, 48C, 48CH, EWRT 1C, FTV 2A#*, 2AH#*, 2AW#*, 2AWH#*, 2B#*, 2BH#*, 2BW#*, 2C#*, 2CH#*, 2CW#*, 2CWH#*, 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 8#, 21, 22#, 25#, 26#, 29#, 31#, 49</b>			
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 [deanza.edu/articulation](http://deanza.edu/articulation) and [www.assist.org](http://www.assist.org) for updates during the spring 2019 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](http://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: <b>IP/P</b> = In-Progress/Planned <b>C</b> = Completed		Units IP/P	Units C		
<b>AREA 4: SOCIAL AND BEHAVIORAL SCIENCES</b>		<b>12 - 15 Quarter Units</b>			
At least <b>3</b> courses from at least <b>2</b> different disciplines.					
<b>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, 3H, 4, 5, E S 1, 3#, 4, F/TV 10, 10H, 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, 10H, 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, 1H, 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#</b>					
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: _____					
<b>CSU/UC Graduation Requirement - NOT PART OF IGETC</b>					
<p><b>(CSU) The U.S. History, Constitution, and American Ideals (AI)</b> is a CSU graduation requirement, and it is strongly recommended that it be completed before transfer. This requirement may be fulfilled by completing <b>2 courses</b>: POLI 1 or 1H and <b>one</b> of the following U.S. History courses (<b>HIST 17A, 17AH or 17B, 17BH or 17C, 17CH</b>). These courses may be used as part of the 12-15 quarter units required in <b>Area 4</b>, however, each CSU campus has the discretion whether to allow courses completed in <b>Area 4</b> to also satisfy the <b>AI</b> graduation requirement.</p> <p><b>(UC) The American History &amp; Institutions (AH&amp;I)</b> 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. <u>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.</u> (UC Santa Barbara requires students to complete a college-level course). One, or a combination, of the following courses <u>may</u> fulfill this requirement: POLI 1, 1H, (HIST 17A, 17AH), (HIST 17B, 17BH), (HIST 17C, 17CH). <b>Please check UC campus catalogs for more information, including other course options that may be available.</b></p>					
<b>AREA 5: PHYSICAL AND BIOLOGICAL SCIENCES</b>		<b>9 - 12 Quarter Units</b>			
At least <b>2</b> courses, including <b>1 Physical Science</b> and <b>1 Biological Science</b> ; at least <b>1</b> must include a laboratory. Courses with a laboratory are <u>underlined</u> .					
<b>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*</b>					
Other Course: _____ College: _____ AP/ <sup>^</sup> IB Exam Credit: _____ Qtr. Units: _____					
<b>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*</b>					
Other Course: _____ College: _____ AP/ <sup>^</sup> IB Exam Credit: _____ Qtr. Units: _____					
<b>5C – Science Laboratory</b> ( <u>Underlined</u> courses in Areas 5A and 5B include a lab.)		<b>Check if lab requirement met</b>	<input type="checkbox"/>		
<b>AREA 6: LANGUAGE OTHER THAN ENGLISH (UC Requirement Only)</b>					
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 the De Anza College Admissions and Records Office. For more information on this requirement go to: <a href="http://deanza.edu/articulation/ge-uc-transfer.html">deanza.edu/articulation/ge-uc-transfer.html</a>					
Complete one of the following with a grade of "C" or better: <b>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</b>					
Other Course: _____ College: _____ AP/IB Exam Credit: _____ Qtr. Units: _____					
<b>TOTAL UNITS FOR AREAS 1 - 6 (47-61 Quarter Units):</b>					

- ◆ - 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 [deanza.edu/articulation](http://deanza.edu/articulation) and [www.assist.org](http://www.assist.org) for updates during the spring 2019 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](http://www.assist.org) for more information.
- <sup>^</sup> - International Baccalaureate (IB) Exam does not fulfill the laboratory requirement in Area 5.

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



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# 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 [deanza.edu/academics/degrees-and-certificates.html](http://deanza.edu/academics/degrees-and-certificates.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](http://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. degree) 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.

### Skills Certificate 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: 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 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, or have other P/NP transfer-limitation policies, so transfer students are advised to consult with a counselor or 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 or campuses require a higher GPA. Please consult with a counselor or 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.

*Program 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)	5
or ACCT 1AH	Financial Accounting I - HONORS (5)	
ACCT 1B	Financial Accounting II (5)	5
or ACCT 1BH	Financial Accounting II - HONORS (5)	
ACCT 1C	Managerial Accounting (5)	5
or ACCT 1CH	Managerial Accounting - HONORS (5)	
ACCT 88	Excel Spreadsheets for Accounting	2

#### Complete a minimum of nine units:

ACCT 51A	Intermediate Accounting (5)	9
ACCT 51B	Intermediate Accounting (5)	
ACCT 52	Advanced Accounting (5)	
ACCT 58	Auditing (5)	
ACCT 64	Payroll and Business Tax Accounting (4)	
ACCT 66	Cost Accounting (5)	
ACCT 67	Individual Income Taxation (5)	
ACCT 68	Advanced Tax Accounting (5)	
ACCT 73	Fraud Detection and Deterrence (5)	
ACCT 74	Accounting Ethics (5)	26
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)	
<b>Total Units Required</b> .....		

## 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.

*Program 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)	5
or ACCT 1AH	Financial Accounting I - HONORS (5)	
ACCT 1B	Financial Accounting II (5)	5
or ACCT 1BH	Financial Accounting II - HONORS (5)	
ACCT 1C	Managerial Accounting (5)	5
or ACCT 1CH	Managerial Accounting - HONORS (5)	
ACCT 88	Excel Spreadsheets for Accounting	2

#### Complete a minimum of 28 units:

ACCT 51A	Intermediate Accounting (5)	28
ACCT 51B	Intermediate Accounting (5)	
ACCT 52	Advanced Accounting (5)	
ACCT 58	Auditing (5)	
ACCT 64	Payroll and Business Tax Accounting (4)	
ACCT 66	Cost Accounting (5)	
ACCT 67	Individual Income Taxation (5)	
ACCT 68	Advanced Tax Accounting (5)	
ACCT 73	Fraud Detection and Deterrence (5)	
ACCT 74	Accounting Ethics (5)	
ACCT 75	Accounting for Government and Nonprofit Entities (5)	45
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)	
<b>Total Units Required</b> .....		

*\*A maximum of five 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. Students gain the skills needed for a professional job in accounting or related field such as analyst or staff accountant.

*Program 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	
	<b>Total Units Required .....</b>	<b>90</b>

## 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.

*Program 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 <i>also listed as POLI 10</i>	4
ADMJ 3	Concepts of Criminal Law (CP 2) <i>also listed as PARA 3 and POLI 13</i>	4

#### Complete three courses: 12

ADMJ 6	Crime, Correction and Society (4)	
ADMJ 54	Youth and the Law (4) <i>also listed as PARA 54 and SOC 54</i>	
ADMJ 61	Criminal Investigation (4)	
ADMJ 75	Principles and Procedures of the Justice System (4) <i>also listed as PARA 75 and POLI 75</i>	
ADMJ 84	Forensic Science (4)	
ADMJ 90A	Legal Aspects of Evidence (CP 4) (4) <i>also listed as PARA 90A</i>	

#### Complete two courses: 8-10

PARA 95	Overview of American Law (4) <i>also listed as ADMJ 95 and POLI 95</i>	
POLI 1 or POLI 1H	American Government and Politics (5) American Government and Politics - HONORS (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) <i>also listed as PSYC 15</i>	
or MATH 10 or MATH 10H	Elementary Statistics and Probability (5) 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	
	<b>Total Units Required .....</b>	<b>90</b>

## 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.

*Program 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.

- Meet the A.A./A.S. degree requirements.
- Complete the following.

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

**Complete five courses: 14-20**

ADMJ 3	Concepts of Criminal Law (CP 2) (4) <i>also listed as PARA 3 and POLI 13</i>	
ADMJ 11	Federal Courts and Constitutional Law (4) <i>also listed as PARA 11 and POLI 11</i>	
ADMJ 25	Law and Social Change (4) <i>also listed as PARA 25</i>	
ADMJ 29	Cultural Pluralism and American Law and Justice (4) <i>also listed as ICS 29</i>	
ADMJ 51	Women in Crime (4) <i>also listed as SOC 51</i>	
ADMJ 55	Alcohol, Narcotics and Drug Abuse (4)	
ADMJ 62	Sexual Assault, Police and Community Response (4) <i>also listed as PSYC 63</i>	
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) <i>also listed as PARA 90A</i>	
PARA 95	Overview of American Law (4) <i>also listed as ADMJ 95 and POLI 95</i>	

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	
<b>Total Units Required .....</b>		<b>90</b>

*Recommended*

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

## Cyber Forensics and Investigations

### Certificate of Achievement-Advanced

Cyber crime detection, investigations and network security skills are increasingly in demand by firms and government agencies that are engaged in the collection and evaluation of evidence. By completing the Cyber Forensics and Investigations Certificate of Achievement-Advance program, students will acquire skills to protect data and intellectual property, develop protective solutions, conduct network intrusion investigations and detect violations by criminal, destructive and terrorist perpetrators. This certificate program will meet the needs of students who are seeking employment within the criminal justice system outside of the traditional law enforcement careers. In addition, this specialized knowledge will provide professional law enforcement and private investigative personnel with specialized skills to facilitate career advancement.

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

- Identify the responsibilities of each component of the criminal justice system in relation to laws, investigations and rules of evidence.
- Describe cyber network components and application of technologies.
- Obtain skills to detect, retrieve digital data from and protect cyber systems from intrusion, data theft and corruption.
- Prepare to investigate illicit activities and deter intrusions within computer network systems.
- Prepare students for cyber security, hacking forensic investigator or examiner credentials.

### Certificate of Achievement-Advanced

- Meet the requirements for this certificate level.
- Complete the following.

ADMJ 1	Introduction to Administration of Justice <i>also listed as POLI 10</i>	4
ADMJ 3	Concepts of Criminal Law (CP 2) <i>also listed as PARA 3 and POLI 13</i>	4
ADMJ 90A	Legal Aspects of Evidence (CP 4) <i>also listed as PARA 90A</i>	4
CIS 56	Network Security	4.5
CIS 104	Digital Forensics and Hacking Investigation	4.5
CIS 108	Personal Computer Security Basics	4.5

**Complete one course: 4-4.5**

ADMJ 61	Criminal Investigation (4)	
CIS 102	Ethical Hacking (4.5)	
<b>Total Units Required .....</b>		<b>29.5-30</b>

## 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.

Program 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 <i>also listed as POLI 10</i>	4
ADMJ 3	Concepts of Criminal Law (CP 2) <i>also listed as PARA 3 and POLI 13</i>	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 <i>also listed as PARA 75 and POLI 75</i>	4
ADMJ 90A	Legal Aspects of Evidence (CP 4) <i>also listed as PARA 90A</i>	4

**Complete five courses: 14-20**

ADMJ 6	Crime, Correction and Society (4)	
ADMJ 11	Federal Courts and Constitutional Law (4) <i>also listed as PARA 11 and POLI 11</i>	
ADMJ 25	Law and Social Change (4) <i>also listed as PARA 25</i>	
ADMJ 29	Cultural Pluralism and American Law and Justice (4) <i>also listed as ICS 29</i>	
ADMJ 51	Women in Crime (4) <i>also listed as SOC 51</i>	
ADMJ 53	Criminal Law II (4)	
ADMJ 54	Youth and the Law (4) <i>also listed as PARA 54 and SOC 54</i>	
ADMJ 55	Alcohol, Narcotics and Drug Abuse (4)	
ADMJ 62	Sexual Assault, Police and Community Response (4) <i>also listed as PSYC 63</i>	
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) <i>also listed as SOC 73</i>	
ADMJ 74A	Interviewing, Interrogation and Crisis Intervention (4) <i>also listed as PARA 74A and PSYC 74A</i>	
ADMJ 84	Forensic Science (4)	
PARA 95	Overview of American Law (4) <i>also listed as ADMJ 95 and POLI 95</i>	

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	
<b>Total Units Required .....</b>		<b>90</b>

## 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.

Program 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 <i>also listed as POLI 10</i>	4
ADMJ 56	Practical Writing for Administration of Justice	4
ADMJ 75	Principles and Procedures of the Justice System <i>also listed as PARA 75 and POLI 75</i>	4

**Complete a minimum of 25 units: 25**

ADMJ 3	Concepts of Criminal Law (CP 2) (4) <i>also listed as PARA 3 and POLI 13</i>	
ADMJ 6	Crime, Correction and Society (4)	
ADMJ 11	Federal Courts and Constitutional Law (4) <i>also listed as PARA 11 and POLI 11</i>	
ADMJ 29	Cultural Pluralism and American Law and Justice (4) <i>also listed as ICS 29</i>	
ADMJ 53	Criminal Law II (4)	
ADMJ 54	Youth and the Law (4) <i>also listed as PARA 54 and SOC 54</i>	
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) <i>also listed as PARA 90A</i>	
PARA 95	Overview of American Law (4) <i>also listed as ADMJ 95 and POLI 95</i>	
<b>Total Units Required .....</b>		<b>37</b>

## 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.

*Program 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 <i>also listed as POLI 10</i>	4
ADMJ 3	Concepts of Criminal Law (CP 2) <i>also listed as PARA 3 and POLI 13</i>	4
ADMJ 56	Practical Writing for Administration of Justice	4
ADMJ 75	Principles and Procedures of the Justice System <i>also listed as PARA 75 and POLI 75</i>	4
<b>Complete a minimum of 22 units:</b>		<b>22</b>
ADMJ 6	Crime, Correction and Society (4)	
ADMJ 11	Federal Courts and Constitutional Law (4) <i>also listed as PARA 11 and POLI 11</i>	
ADMJ 29	Cultural Pluralism and American Law and Justice (4) <i>also listed as ICS 29</i>	
ADMJ 53	Criminal Law II (4)	
ADMJ 54	Youth and the Law (4) <i>also listed as PARA 54 and SOC 54</i>	
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) <i>also listed as SOC 73</i>	
ADMJ 74A	Interviewing, Interrogation and Crisis Intervention (4) <i>also listed as PARA 74A and PSYC 74A</i>	
ADMJ 84	Forensic Science (4)	
ADMJ 90A	Legal Aspects of Evidence (CP 4) (4) <i>also listed as PARA 90A</i>	
PARA 95	Overview of American Law (4) <i>also listed as ADMJ 95 and POLI 95</i>	
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	
<b>Total Units Required .....</b>		<b>90</b>

## 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.

*Program 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)	4
or ANTH 1H	Physical Anthropology - HONORS (4)	
ANTH 2	Cultural Anthropology (4)	4
or ANTH 2H	Cultural Anthropology - HONORS (4)	
ANTH 3	Introduction to Archaeology	4
<b>Complete one course:</b>		<b>4</b>
ANTH 4	World Prehistory (4)	
ANTH 6	Linguistic Anthropology (4)	

<b>Complete one course below or from above (not already taken):</b>		<b>4-5</b>
GEOL 10	Introductory Geology (5)	
SOC 14	The Process of Social Research (4)	

<b>Complete three courses below or from above (not already taken):</b>		<b>9-13</b>
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	
<b>Total Units Required .....</b>		<b>90</b>

*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.

*Program 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

- Meet the requirements for this certificate level.
- Complete the following.

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

#### Complete three courses: 12

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

#### Complete three 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 course: 4

ARTS 4A	Beginning Drawing (4)	
ARTS 15A	Acrylic Painting I (4)	
ARTS 16A	Oil Painting I (4)	

#### Complete six to eight 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 degree provides foundation-level art and fundamental ceramics instruction. In the ceramics courses, students gain the experience necessary for entry-level positions and skills needed for ceramics study.

*Program 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 ring techniques.
- Demonstrate loading and ring kilns for different temperature aesthetics and function.

- Meet the A.A./A.S. degree requirements.
- 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	
<b>Total Units Required .....</b>		<b>90</b>

## 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.

*Program 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
<b>Total Units Required .....</b>		<b>22</b>

## 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 and 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.

*Program 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 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 course: 4

ARTS 4D	Representational Drawing (4)
ARTS 10A	Three-Dimensional Design (4)

### Complete two 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	
<b>Total Units Required .....</b>		<b>90</b>

## Sculpture

### A.A. Degree

This degree offers a comprehensive foundation in three-dimensional design, sculpture and furniture design. Students acquire the knowledge and technical skills which are applicable to the other fields of study, including studio art production, product design, museum work, architectural design and model making.

*Program 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 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)	

<i>Major</i>	<i>Sculpture</i>	48
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
<b>Total Units Required .....</b>		<b>90</b>

**Spatial Art**   
**A.A. Degree**

The Spatial Art Degree will help De Anza students smoothly transfer to San Jose State University's third-year Spatial Art Program. The acquired knowledge may be transferred into areas such as teaching, studio art production, product design, museum work, architectural design and model making.

*Program 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 ring techniques.
- Demonstrate loading and ring kilns for different temperature aesthetics and function.
- Emphasize idea development, visual investigation and the sculpture making process on an advanced level.
- Practice critical thinking and problem solving skills.
- Employ materials appropriate to advanced sculptural work.
- Apply knowledge of safe and proper use of all shop tools.

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 10B	Intermediate Three-Dimensional Design	4
ARTS 18A	Ceramics	4
ARTS 18B	Ceramics (Beginning Wheel Throwing)	4

ARTS 37A	Sculpture	4
PHTG 1	Basic Photography	3

**Complete one option: 4-8**

Option 1:		
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)	
Option 2:		
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)	
Option 3:		
ARTS 2G	History of Art: Arts of Asia (4) <i>also listed as INTL 10</i>	

**Complete three courses: 12**

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 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)	

<i>Major</i>	<i>Spatial Art</i>	47-51
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
<b>Total Units Required .....</b>		<b>90</b>

**AUTOMOTIVE TECHNICIAN**

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

**Automotive General Service Technician**   
**Certificate of Achievement**

This Certificate of Achievement prepares a student for employment as an entry-level technician performing vehicle inspections, new car preparation and general automotive maintenance.

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

- Perform basic engine service, cooling system maintenance and battery testing.
- Perform tire service including balancing, disc and drum brake service, and basic front and rear suspension service.

**Certificate of Achievement**

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

AUTO 50A	Introduction to Automotive Principles	4
AUTO 50B	Applied Automotive Principles	2
AUTO 51A	Introduction to Automotive Principles - Chassis Systems	4
AUTO 51B	Applications of Automotive Principles - Chassis Systems	2
AUTO 60	Automotive Electrical Systems	9
<b>Total Units Required .....</b>		<b>21</b>

**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.

*Program 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
<b>Total Units Required .....</b>		<b>18</b>

**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.

*Program 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
<b>Total Units Required .....</b>		<b>49</b>

**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.

*Program 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
<b>Total Units Required .....</b>		<b>22</b>

**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.

*Program 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
<b>Total Units Required .....</b>		<b>18</b>

## Advanced Engine Performance Technology

### Certificate of Achievement

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

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

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

- Meet the requirements for this certificate level.
- 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
<b>Total Units Required .....</b>		<b>18</b>

## 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.

*Program 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

- Meet the requirements for this certificate level.
- 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
<b>Total Units Required .....</b>		<b>58</b>

## 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	
<b>Total Units Required .....</b>		<b>90</b>

### 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.

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

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

- Meet the requirements for this certificate level.
- 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
<b>Total Units Required .....</b>		<b>18</b>

## 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.

*Program 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

- Meet the requirements for this certificate level.
- 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
<b>Total Units Required .....</b>		<b>49</b>

**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	
<b>Total Units Required .....</b>		<b>90</b>

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.

*Program 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
<b>Total Units Required .....</b>		<b>22.5</b>

**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.

*Program 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
<b>Total Units Required .....</b>		<b>44.5</b>

**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	
<b>Total Units Required .....</b>		<b>90</b>

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.

*Program 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	Smog Inspector - Level 1 Training	7
AUTO 65W	Smog Inspector - Level 2 Training	2.5
<b>Total Units Required .....</b>		<b>18.5</b>

**AUTOMOTIVE TECHNOLOGY****An entry-level program for full-time day students****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.

*Program 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
<b>Total Units Required .....</b>		<b>22.5</b>

## 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.

*Program 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
<b>Total Units Required .....</b>		<b>44</b>

#### Option B: Automotive Engine Performance

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

*Program 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
<b>Total Units Required .....</b>		<b>50</b>

#### Option C: Automotive Chassis and Powertrain

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

*Program 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
<b>Total Units Required .....</b>		<b>49.5</b>

## Automotive Technology

### A.S. Degree (Options A - C)

Refer to the corresponding description, Program 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	
<b>Total Units Required .....</b>		<b>90</b>

*Recommended*

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

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	
<b>Total Units Required .....</b>		<b>90</b>

*Recommended elective courses*

BIOL 13, 15, 26, 40A, 40B, 40C
ES 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 and Advising Center and consult with the four-year institution.*

## 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 bachelor's 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.

*Program 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)	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)	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 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)

## 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 quarterly class listings.

### 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.

*Program 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)	5
or ACCT 1AH	Financial Accounting I - HONORS (5)	
BUS 10	Introduction to Business	5
BUS 18	Business Law I	5

**Complete two courses:**

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 or 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.

*Program 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)	5
or ACCT 1AH	Financial Accounting I - HONORS (5)	
ACCT 1B	Financial Accounting II (5)	5
or ACCT 1BH	Financial Accounting II - HONORS (5)	
ACCT 1C	Managerial Accounting (5)	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
<i>Major</i>	<i>Business Administration</i>	<b>49.5</b>
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
<b>Total Units Required .....</b>		<b>90</b>

*Recommended*

BUS 21, 54, 55, 57, 58, 59, 65, 70, 85, 87, 89, 91  
COMM 70, 70H

**8-10**

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 or 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.

*Program 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)	5
or ACCT 1BH	Financial Accounting II - HONORS (5)	
ACCT 1C	Managerial Accounting (5)	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)	4
or ECON 1H	Principles of Macroeconomics - HONORS (4)	
ECON 2	Principles of Microeconomics (4)	4
or ECON 2H	Principles of Microeconomics - HONORS (4)	

**Complete two 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	
<b>Total Units Required</b> .....		<b>90</b>

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

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

<b>Complete three courses:</b>		<b>15</b>
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)	
<b>Total Units Required</b> .....		<b>24</b>

## Business Information Worker

### Certificate of Achievement

The Business Information Worker (BIW) Certificate of Achievement is designed to prepare students for entry-level office and administrative support in a variety of job positions, including general office clerks, retail salespersons, customer service representatives, receptionists and information clerks.

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

- Use computer input devices to properly and efficiently create and edit documents in word processing and spreadsheet programs, and in electronic communications systems such as email.
- Work effectively, respectfully, ethically and professionally with people of diverse ethnic and cultural backgrounds, and diverse social affiliations and personalities, filling a variety of organizational roles.
- Communicate effectively and professionally in business situations through writing, speaking and electronic media.

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

BUS 54	Business Mathematics	5
BUS 56	Human Relations in the Workplace	5
BUS 85	Business Communication	3
CIS 3	Business Information Systems	4.5
CIS 4	Computer Literacy	4.5
CIS 99	Office Software Applications	4.5
<b>Total Units Required</b> .....		<b>26.5</b>

▼ 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 quarterly class listings.

## 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.

*Program 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.

## 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 CD 59G "Supervision and Administration of Child Development Programs (Management Systems)" and CD 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).

*Program 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.

CD 10G	Child Development (The Early Years) also listed as PSYC 10G	4
CD 12	Child, Family and Community Interrelationships	4

CD 50	Principles and Practices of Teaching Young Children	4
<b>Complete a minimum of nine units:</b>		
CD 10H	Child Growth and Development (Middle Childhood and Adolescence) (4) <i>also listed as PSYC 10H</i>	9
CD 52	Observation and Assessment of Children (4)	
CD 53	Creative Art for the Young Child (3)	
CD 54	Curriculum for Early Childhood Programs (4)	
CD 55	Literacy Development and Activities for the Young Child (3)	
CD 56	Understanding and Working with English Learners (3)	
CD 58	Infant/Toddler Development (5)	
CD 61	Music and Movement (Developmental Foundations) (3)	
CD 63	Math and Science Activities for the Young Child (3)	
CD 64	Health, Safety, and Nutrition for the Young Child (4)	
CD 68	Teaching in a Diverse Society (4)	
CD 71	Constructive Guidance and Positive Discipline in Early Childhood (3)	
CD 72	Partnerships with Families in Early Childhood Education (3)	
<b>Practicum Requirement - complete one course:</b>		
CD 51A	Basic Student Teaching Practicum (5)	5
CD 57	Self-Assessment for Teachers of Young Children Using Reflective Practice: Field Experience (5)	
<b>Total Units Required .....</b>		<b>26</b>

## 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.

*Program 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.**

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

### **Complete a minimum of three units:** **3**

CD 53	Creative Art for the Young Child (3)	
CD 55	Literacy Development and Activities for the Young Child (3)	
CD 56	Understanding and Working with English Learners (3)	
CD 57	Self-Assessment for Teachers of Young Children Using Reflective Practice: Field Experience (5)	
CD 58	Infant/Toddler Development (5)	
CD 59G	Supervision and Administration of Child Development Programs (Management Systems) (4)	
CD 59H	Supervision and Administration of Child Development Programs (Leadership Skills) (4)	
CD 60	Introduction to Children with Special Needs (3)	
CD 61	Music and Movement (Developmental Foundations) (3)	
CD 63	Math and Science Activities for the Young Child (3)	
CD 67	Supervision and Administration of Child Development Programs (Adult Supervision) (3)	
CD 71	Constructive Guidance and Positive Discipline in Early Childhood (3)	
EDUC 1	Introduction to Elementary Education in a Diverse Society (3)	

### **Practicum Requirement:** **5**

CD 51A	Basic Student Teaching Practicum	5
<b>Total Units Required .....</b>		<b>40</b>

## 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 CD 59G "Supervision and Administration of Child Development Programs (Management Systems)", CD 59H "Supervision and Administration of Child Development Programs (Leadership Skills)" and CD 67 "Supervision and Administration of Child Development Programs (Adult Supervision)".

*Program 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.**

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

**Complete a minimum of three units: 3**

CD 53	Creative Art for the Young Child (3)	
CD 56	Understanding and Working with English Learners (3)	
CD 57	Self-Assessment for Teachers of Young Children Using Reflective Practice: Field Experience (5)	
CD 58	Infant/Toddler Development (5)	
CD 59G	Supervision and Administration of Child Development Programs (Management Systems) (4)	
CD 59H	Supervision and Administration of Child Development Programs (Leadership Skills) (4)	

CD 60	Introduction to Children with Special Needs (3)
CD 61	Music and Movement (Developmental Foundations) (3)
CD 63	Math and Science Activities for the Young Child (3)
CD 71	Constructive Guidance and Positive Discipline in Early Childhood (3)
CD 72	Partnerships with Families in Early Childhood Education (3)
CD 73	Early Childhood Mental Health (3)
CD 74	Early Childhood Mental Health Seminar and Fieldwork (3)
CD 75	Social Emotional Development in Early Childhood (3)
EDUC 1	Introduction to Elementary Education in a Diverse Society (3)

<b>Practicum Requirement:</b>	<b>10</b>
CD 51A	Basic Student Teaching Practicum 5
CD 51B	Advanced Student Teaching Practicum 5

<i>Major</i>	<i>Child Development</i>	<b>51</b>
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	

**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 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 or 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.

*Program 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.

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

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

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

## 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 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/CD 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.

*Program 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.

CD 10G	Child Development (The Early Years) <i>also listed as PSYC 10G</i>	4
CD 58	Infant/Toddler Development	5
CD 72	Partnerships with Families in Early Childhood Education	3
CD 73	Early Childhood Mental Health	3
CD 74	Early Childhood Mental Health Seminar and Fieldwork	3
CD 75	Social Emotional Development in Early Childhood	3
	<b>Total Units Required .....</b>	<b>21</b>

## 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.

*Program 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.**

CD 10G	Child Development (The Early Years) <i>also listed as PSYC 10G</i>	4
CD 12	Child, Family and Community Interrelationships	4
CD 50	Principles and Practices of Teaching Young Children	4
CD 52	Observation and Assessment of Children	4
CD 55	Literacy Development and Activities for the Young Child	3
CD 58	Infant/Toddler Development	5
CD 60	Introduction to Children with Special Needs	3
CD 64	Health, Safety, and Nutrition for the Young Child	4
CD 73	Early Childhood Mental Health	3
CD 90	Facilitating Inclusion in Early Childhood Programs: Intervention Strategies	3

**Complete a minimum of three units: 3**

CD 10H	Child Growth and Development (Middle Childhood and Adolescence) (4) <i>also listed as PSYC 10H</i>	
CD 53	Creative Art for the Young Child (3)	
CD 54	Curriculum for Early Childhood Programs (4)	
CD 56	Understanding and Working with English Learners (3)	
CD 57	Self-Assessment for Teachers of Young Children Using Reflective Practice: Field Experience (5)	
CD 61	Music and Movement (Developmental Foundations) (3)	
CD 63	Math and Science Activities for the Young Child (3)	
CD 68	Teaching in a Diverse Society (4)	
CD 71	Constructive Guidance and Positive Discipline in Early Childhood (3)	
CD 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.

CD 51A	Basic Student Teaching Practicum	5
<b>Total Units Required .....</b>		<b>45</b>

## COMMUNICATION STUDIES

### 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.

*Program 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 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 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)
or COMM 9H*	Argumentation: Analysis of Oral and Written Communication - HONORS (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) <i>also listed as ICS 7</i>
or COMM 7H	Intercultural Communication - HONORS (4) <i>also listed as ICS 7H</i>
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)
or COMM 9H*	Argumentation: Analysis of Oral and Written Communication - HONORS (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 Communication Studies (1-4)	
COMM 78 series	COMM 78W, 78X, 78Y, 78Z	
	Special Topics in Communication Studies (1-4)	
JOUR 2	Mass Communication and Its Impact on Society (4)	
	<b>Total Units Required .....</b>	<b>20</b>

Note: Up to four 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.

Program 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 course:

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)	

5

<b>Complete one course:</b>		<b>5</b>
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)	
or COMM 9H*	Argumentation: Analysis of Oral and Written Communication - HONORS (5)	

### Complete five courses:

COMM 7	Intercultural Communication (4)	
	<i>also listed as ICS 7</i>	
or COMM 7H	Intercultural Communication - HONORS (4)	
	<i>also listed as ICS 7H</i>	
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	

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### Specialty Area Coursework:

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	
	<b>Total Units Required .....</b>	<b>90</b>

\*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.

Program 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 course:**

- 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)

5

**Complete five courses:**

23-24

- 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 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 courses instead of five 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	
<b>Total Units Required .....</b>		<b>90</b>

*\*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.

*Program 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)	5
or MATH 1AH	Calculus - HONORS (5)	
MATH 1B	Calculus (5)	5
or MATH 1BH	Calculus - HONORS (5)	
MATH 1C	Calculus (5)	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 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	
<b>Total Units Required .....</b>		<b>90</b>

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.

*Program 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)	4.5
or CIS 22BH	Intermediate Programming Methodologies in C++ - HONORS (4.5)	

**Complete four 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)	
<b>Total Units Required .....</b>		<b>24.5-26.5</b>

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.

*Program 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/Corequisites: 4.5**

CIS 108	Personal Computer Security Basics	4.5
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**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 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 greater 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.

*Program 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/Corequisites: 4.5**

CIS 108	Personal Computer Security Basics	4.5
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<b>Requirements:</b>		<b>18</b>
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

<b>Complete one course:</b>		<b>5</b>
CIS 66*	Introduction to Data Communication and Networking (5)	
CIS 75A*	Internet Concepts and TCP/IP Protocols (5)	

<b>Complete one course:</b>		<b>4.5</b>
CIS 104	Digital Forensics and Hacking Investigation (4.5)	
CIS 105	Cloud Security Fundamentals (4.5)	
<b>Total Units Required .....</b>		<b>32</b>

\*Based on previous experience or knowledge, students may substitute another CIS course of equal or greater 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.

*Program 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
GE	General Education (32-43 units)	
Electives	Elective courses required when major units plus GE units total is less than 90	
<b>Total Units Required .....</b>		<b>90</b>

### 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.

*Program 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
<b>Total Units Required .....</b>		<b>22.5</b>

## Network Administration

### Certificate of Achievement-Advanced

#### A.A. Degree

The Certificate of Achievement-Advanced and A.A. degree programs offer 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. The programs include training in programming, network management, UNIX and Perl to aid in understanding more complex networking problems that occur in business enterprises.

*Program 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)	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

<b>Complete one course:</b>	<b>4.5</b>
CIS 18B	Advanced Unix/Linux (4.5)
CIS 33A	Programming in Perl (4.5)

<b>Complete one course:</b>	<b>4.5-5</b>
CIS 31	Operating System Concepts (5)
CIS 170F	Windows Administration (4.5)
<b>Total Units Required .....</b>	<b>40.5-41</b>

**A.A. Degree**

<i>Major</i>	<i>Complete the Cert. of Achievement-Advanced requirements</i>	<i>40.5-41</i>
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
<b>Total Units Required .....</b>		<b>90</b>

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 programs create programming-savvy entrepreneurs who can make decisions about finances and technology, and who understand how to run an enterprise from both the technology and business perspectives. This programs teach 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.

*Program 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)	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)	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

<b>Complete one course:</b>	<b>3-4.5</b>
CIS 56	Network Security (4.5)
CIS 75D	Enterprise Security Policy Management (3)

<b>Complete one course:</b>	<b>4.5</b>
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)

<b>Complete one course:</b>	<b>4-5</b>
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)
<b>Total Units Required .....</b>	<b>44-46.5</b>

**A.A. Degree**

<i>Major</i>	<i>Complete the Cert. of Achievement-Advanced requirements</i>	<i>44-46.5</i>
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
<b>Total Units Required .....</b>		<b>90</b>

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 quarterly class listings.

**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.

*Program 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
<b>Total Units Required .....</b>		<b>18.5</b>

## Network Programming

### Certificate of Achievement-Advanced

#### A.A. Degree

The Certificate of Achievement-Advanced and A.A. degree give 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.

*Program 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)	4.5
or CIS 22BH	Intermediate Programming Methodologies in C++ - HONORS (4.5)	4.5
CIS 22C	Data Abstraction and Structures (4.5)	4.5
or CIS 22CH	Data Abstraction and Structures - HONORS (4.5)	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

#### Complete two courses: 8-9.5

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)	
CIS 75B	Internet Programming with TCP/IP (4.5)	
<b>Total Units Required .....</b>		<b>40.5-42</b>

#### A.A. Degree

<i>Major</i>	<i>Complete the Cert. of Achievement-Advanced requirements</i>	<i>40.5-42</i>
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
<b>Total Units Required .....</b>		<b>90 units</b>

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.

*Program 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)	4.5
or CIS 22BH	Intermediate Programming Methodologies in C++ - HONORS (4.5)	4.5
CIS 22C	Data Abstraction and Structures (4.5)	4.5
or CIS 22CH	Data Abstraction and Structures - HONORS (4.5)	4.5

#### Complete one course: 4.5

CIS 26B	Advanced C Programming (4.5)	
CIS 29	Advanced C++ Programming (4.5)	
<b>Total Units Required .....</b>		<b>18</b>

## Programming in Java

### Certificate of Achievement

This Certificate of Achievement gives students the knowledge and skills necessary to develop for client/server, web and mobile environments. Organizations running networks on private and public clouds, which pass information among desktop, server 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.

*Program 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)	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
<b>Total Units Required .....</b>		<b>22.5</b>

## 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.

*Program 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)	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
<b>Total Units Required .....</b>		<b>22.5</b>

## Programming in Python

### 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.

*Program 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 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 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)	
<b>Total Units Required .....</b>		<b>18-18.5</b>

## 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.

*Program 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)	4.5
or CIS 22BH	Intermediate Programming Methodologies in C++ - HONORS (4.5)	4.5
CIS 22C	Data Abstraction and Structures (4.5)	4.5
or CIS 22CH	Data Abstraction and Structures - HONORS (4.5)	4.5
CIS 26B	Advanced C Programming	4.5
CIS 29	Advanced C++ Programming	4.5
CIS 31	Operating System Concepts	5

**Complete one 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)	
<b>Total Units Required .....</b>		<b>40.5-41.5</b>

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	
<b>Total Units Required .....</b>		<b>90</b>

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.

*Program 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)	4.5
or CIS 22BH	Intermediate Programming Methodologies in C++ - HONORS (4.5)	4.5
<b>Total Units Required .....</b>		<b>22.5</b>

**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. These skills can be applied to degrees in MIS, web development or any associated area.

*Program 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 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
<b>Total Units Required .....</b>		<b>18.5</b>

**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.

*Program 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 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 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
<b>Total Units Required ..... 19.5-22.5</b>	

## 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 an 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.

*Program 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
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<b>Complete one course from the series:</b>	<b>4</b>
DMT 60A - 60E series	
SolidWorks (Beginning) (4)	

<b>Complete one course from the series:</b>	<b>4</b>
DMT 61A - 61E series	
SolidWorks (Intermediate) (4)	

<b>Complete one course from the series:</b>	<b>4</b>
DMT 65A - 65E series	
Creo Parametric (Beginning) (4)	

<b>Complete one course from the series:</b>	<b>4</b>
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 setup and operation of CNC mills. Upon completion, students are prepared for employment in manufacturing facilities as setup 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.

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

- Setup 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
<b>Total Units Required ..... 19.5</b>		

### 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 setup, 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 setup persons and machine operators.

*Program 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 course from the series:** 5  
 DMT 87D - 87E series  
 CAD/CAM Based Computer Numerical Control Programming Using Mastercam (5)

**Complete one course from the series:** 5  
 DMT 87J - 87K series  
 CAD/CAM Based CNC Surface Contouring Programming Using Mastercam (5)

**Complete one 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 course from the series:** 5  
 DMT 89A - 89E series  
 CAM Based CNC Multi-Axis Programming Using NX (5)

**Complete one 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)	
<b>Total Units Required .....</b>		<b>54.5</b>

**A.S. Degree**

<i>Major</i>	<i>Complete the Cert. of Achievement-Advanced requirements</i>	54.5
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
<b>Total Units Required .....</b>		<b>90</b>

**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.

*Program 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 course from the series:** 5  
 DMT 87D - 87E series  
 CAD/CAM Based Computer Numerical Control Programming Using Mastercam (5)

**Complete one course from the series:** 5  
 DMT 87J - 87K series  
 CAD/CAM Based CNC Surface Contouring Programming Using Mastercam (5)

**Complete one 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 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.

*Program 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 course from the series:

DMT 87D - 87E series  
CAD/CAM Based Computer Numerical Control Programming Using Mastercam (5)

#### Complete one course from the series:

DMT 87J - 87K series  
CAD/CAM Based CNC Surface Contouring Programming Using Mastercam (5)

#### Complete one 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 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 setup 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.

*Program 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 course from either series:** 4  
 DMT 60A - 60E series  
     SolidWorks (Beginning) (4)  
 DMT 65A - 65E series  
     Creo Parametric (Beginning) (4)

**Complete one course from the series:** 5  
 DMT 87D - 87E series  
     CAD/CAM Based Computer Numerical  
     Control Programming Using Mastercam (5)

**Complete one course from the series:** 5  
 DMT 87J - 87K series  
     CAD/CAM Based CNC Surface Contouring  
     Programming Using Mastercam (5)

**Complete one 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

### 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 setup 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.

*Program 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.

- Meet the requirements for this certificate level.
- 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
<b>Total Units Required .....</b>		<b>22</b>

## ECONOMICS

### 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.

*Program 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.

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

ECON 1	Principles of Macroeconomics (4)	4
or ECON 1H	Principles of Macroeconomics - HONORS (4)	4
ECON 2	Principles of Microeconomics (4)	4
or ECON 2H	Principles of Microeconomics - HONORS (4)	4
MATH 10	Elementary Statistics and Probability (5)	5
or MATH 10H	Elementary Statistics and Probability - HONORS (5)	5

**Complete one option:**

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 option:**

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 four-10 units:**

- ECON 3 Environmental Economics (4)  
 or ECON 3H Environmental Economics - HONORS (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)  
 or MATH 2BH Linear Algebra - HONORS (5)

\*Students taking MATH 1C/1CH must take MATH 1D/1DH 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**

5-10

**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.

*Program 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:**

- EWRT 1A Composition and Reading (5)  
 or EWRT 1AH Composition and Reading - HONORS (5)

5

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

**Complete one course:**

- 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)

5

**Complete three courses:**

- ELIT 46A Major British Writers  
 (Medieval and Renaissance) (4)  
 or ELIT 46AH Major British Writers  
 (Medieval and Renaissance) - HONORS (4)  
 ELIT 46B Major British Writers  
 (Neo-Classical and Romantic) (4)  
 or ELIT 46BH Major British Writers  
 (Neo-Classical and Romantic) - HONORS (4)  
 ELIT 46C Major British Writers  
 (Victorian and Modern) (4)  
 or ELIT 46CH Major British Writers  
 (Victorian and Modern) - HONORS (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)  
 or ELIT 48AH Major American Writers (Colonial to  
 Romantic, 1620-1865) - HONORS (4)

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ELIT 48B Major American Writers  
(The Advent of Realism, 1865-1914) (4)  
or ELIT 48BH Major American Writers (The Advent of  
Realism, 1865-1914) - HONORS (4)  
ELIT 48C Major American Writers  
(The Modern Age, 1914-the Present) (4)  
or ELIT 48CH Major American Writers (The Modern Age,  
1914-the Present) - HONORS (4)

**Complete one course:**

4-5

ELIT 10 Introduction to Fiction (4)  
or ELIT 10H Introduction to Fiction - HONORS (4)  
ELIT 11 Introduction to Poetry (4)  
ELIT 12 Introduction to Dramatic Literature (4)  
ELIT 17 Introduction to Shakespeare (4)  
or ELIT 17H Introduction to Shakespeare - HONORS (4)  
ELIT 19 Introduction to the Bible as Literature (4)  
EWRT 1C Literature and Composition (5)

**Complete one 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)  
or ELIT 41H Ethnic Literature of the United  
States - HONORS (4)

**Complete one 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 38 Utopian/Dystopian Literature (4)  
ELIT 39 Contemporary Literature (4)  
ELIT 40 African American Literature (4)  
ELIT 41 Ethnic Literature of the United States (4)  
or ELIT 41H Ethnic Literature of the United  
States - HONORS (4)  
ELIT 44 International Literature (Fiction) (4)  
ELIT 46A Major British Writers  
(Medieval and Renaissance) (4)  
or ELIT 46AH Major British Writers  
(Medieval and Renaissance) - HONORS (4)  
ELIT 46B Major British Writers  
(Neo-Classical and Romantic) (4)  
or ELIT 46BH Major British Writers  
(Neo-Classical and Romantic) - HONORS (4)  
ELIT 46C Major British Writers  
(Victorian and Modern) (4)  
or ELIT 46CH Major British Writers  
(Victorian and Modern) - HONORS (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)  
or ELIT 48AH Major American Writers (Colonial to  
Romantic, 1620-1865) - HONORS (4)

ELIT 48B Major American Writers  
(The Advent of Realism, 1865-1914) (4)  
or ELIT 48BH Major American Writers (The Advent of  
Realism, 1865-1914) - HONORS (4)  
ELIT 48C Major American Writers  
(The Modern Age, 1914-the Present) (4)  
or ELIT 48CH Major American Writers (The Modern Age,  
1914-the Present) - HONORS (4)  
EWRT 30 Introduction to Creative Writing (5)  
EWRT 40 Fiction Writing (5)  
EWRT 41 Poetry Writing (5)  
LING 1 Introduction to Linguistics (4)

<i>Major</i>	<i>English</i>	29-31
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
<b>Total Units Required .....</b>		<b>90</b>

**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.

*Program 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 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 course if option 1 is selected above  
 or two courses if option 2 is selected above: 4-10**

ELIT 10 Introduction to Fiction (4)  
 or ELIT 10H Introduction to Fiction - HONORS (4)  
 ELIT 11 Introduction to Poetry (4)  
 ELIT 12 Introduction to Dramatic Literature (4)  
 ELIT 17 Introduction to Shakespeare (4)  
 or ELIT 17H Introduction to Shakespeare - HONORS (4)  
 EWRT 30 Introduction to Creative Writing (5)  
 EWRT 40 Fiction Writing (5)  
 EWRT 41 Poetry Writing (5)

**Complete two options: 12-16**

Option 1:  
 ELIT 46A Major British Writers  
 (Medieval and Renaissance) (4)  
 or ELIT 46AH Major British Writers  
 (Medieval and Renaissance) - HONORS (4)  
 ELIT 46B Major British Writers  
 (Neo-Classical and Romantic) (4)  
 or ELIT 46BH Major British Writers  
 (Neo-Classical and Romantic) - HONORS (4)

Option 2:  
 ELIT 46B Major British Writers  
 (Neo-Classical and Romantic) (4)  
 or ELIT 46BH Major British Writers  
 (Neo-Classical and Romantic) - HONORS (4)  
 ELIT 46C Major British Writers  
 (Victorian and Modern) (4)  
 or ELIT 46CH Major British Writers  
 (Victorian and Modern) - HONORS (4)

Option 3:  
 ELIT 48A Major American Writers  
 (Colonial to Romantic, 1620-1865) (4)  
 or ELIT 48AH Major American Writers (Colonial to  
 Romantic, 1620-1865) - HONORS (4)  
 ELIT 48B Major American Writers  
 (The Advent of Realism, 1865-1914) (4)  
 or ELIT 48BH Major American Writers (The Advent of  
 Realism, 1865-1914) - HONORS (4)

Option 4:  
 ELIT 48B Major American Writers  
 (The Advent of Realism, 1865-1914) (4)  
 or ELIT 48BH Major American Writers (The Advent of  
 Realism, 1865-1914) - HONORS (4)  
 ELIT 48C Major American Writers  
 (The Modern Age, 1914-the Present) (4)  
 or ELIT 48CH Major American Writers (The Modern Age,  
 1914-the Present) - HONORS (4)

**Complete one 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 38 Utopian/Dystopian Literature (4)  
 ELIT 39 Contemporary Literature (4)  
 ELIT 40 African American Literature (4)  
 ELIT 41 Ethnic Literature of the United States (4)  
 or ELIT 41H Ethnic Literature of the United  
 States - HONORS (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).

*Program 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.

ES 4	Energy, the Environment, and Society	4
ES 58	Introduction to Green Building	1
ES 64	California's Approach to Global Warming/Global Climate Change	2
ES 69	Energy Management Within Your Organization	1
ES 70	Introduction to Energy	1
ES 71	Introduction to Sustainable Buildings	1
ES 76	Energy Star Products	1

ES 78	Introduction to Energy Management Systems and Controls	1
ES 79	Renewable and Alternative Energy Systems	1
ES 81	Leadership in Energy and Environmental Design/Sustainability Codes	2
ES 82	Project Management and Technical Report Writing for Energy Professionals	2
ES 83	Energy Management Return on Investment	2
	<b>Total Units Required .....</b>	<b>19</b>

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).

*Program 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.

## 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).

*Program 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. 19
2. Meet the requirements for this certificate level.
3. Complete the following.

ES 51A	Sustainable Energy Systems	4
ES 51B	Energy Efficient Buildings	3
ES 51C	Building Automation Systems	2
ES 69A	Introduction to Facilities Management	3
ES 76A	Solar Thermal Systems	1
	<b>Total Units Required .....</b>	<b>32</b>

1. Complete the Certificate of Achievement and the Certificate of Achievement-Advanced requirements. 32
2. Meet the A.A./A.S. degree requirements.
3. Complete the following.

### Complete 18 units: 18

CIS 3	Business Information Systems (4.5)
CIS 79	Managing Technology Projects (4.5)
ES 1	Introduction to Environmental Studies (4)
ES 50	Introduction to Environmental Resource Management and Pollution Prevention (3)
ES 61B	Environmental Resource Management and Pollution Prevention: Energy, Chemicals and Waste (4)
ES 62C	Environmental Management Tools: Environmental Site Assessments (ESAs) (4)
ES 62D	Environmental Management Tools: Industrial Ecology and Sustainable Design Principles (4)
ES 66	Environmental Leadership (1)
ES 84	Residential Solar Design and Installation (1)
ES 95	Introduction to Environmental Careers (1)
ESCI 1	Environmental Science (4)
MATH 114	College Math Preparation Level 3: Intermediate Algebra (5)
MET 10	Weather and Climate Processes (5)
PHYS 10	Concepts of Physics (5)

## 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

<i>Major</i>	<i>Energy Management and Building Science</i>	<i>50</i>
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
	<b>Total Units Required .....</b>	<b>90</b>

## 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 and 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 or pollution prevention specialists in a wide range of positions and settings, including working for business, 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.

*Program 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.

ES 50	Introduction to Environmental Resource Management and Pollution Prevention	3
ES 61A	Environmental Resource Management and Pollution Prevention: Air, Water and Land	4
ES 61B	Environmental Resource Management and Pollution Prevention: Energy, Chemicals and Waste	4

#### Complete two courses:

ES 62A	Environmental Management Tools: Environmental Management Systems and Environmental Performance Reporting (4)	8
ES 62B	Environmental Management Tools: CEQA and Environmental Impact Reports (EIRs) (4)	
ES 62C	Environmental Management Tools: Environmental Site Assessments (ESAs) (4)	
ES 62D	Environmental Management Tools: Industrial Ecology and Sustainable Design Principles (4)	
<b>Total Units Required .....</b>		<b>19</b>

## 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 and 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 or pollution prevention specialists in a wide range

of positions and settings, including working for business, 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.

*Program 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. 19
2. Meet the requirements for this certificate level.
3. Complete the following.

ES 64	California's Approach to Global Warming/Global Climate Change	2
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#### Complete two courses not previously completed for the Certificate of Achievement:

ES 62A	Environmental Management Tools: Environmental Management Systems and Environmental Performance Reporting (4)	8
ES 62B	Environmental Management Tools: CEQA and Environmental Impact Reports (EIRs) (4)	
ES 62C	Environmental Management Tools: Environmental Site Assessments (ESAs) (4)	
ES 62D	Environmental Management Tools: Industrial Ecology and Sustainable Design Principles (4)	
<b>Total Units Required .....</b>		<b>29</b>

## 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 and 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 or pollution prevention specialists (in a wide range of positions and settings, including working for business, government and nonprofit 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.

*Program 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.	
ES 1 Introduction to Environmental Studies	4
ES 2 Humans, the Environment, and Sustainability	4
ES 6 Introduction to Environmental Law	4
ES 56 Introduction to Environmental Health	4
ES 58 Introduction to Green Building	1
ES 61L Environmental Resource Management and Pollution Prevention Laboratory	1
ES 63 Agenda 21: Blueprint for Sustainability	1
ES 95 Introduction to Environmental Careers	1
ESCI 1 Environmental Science	4
ESCI 1L Environmental Science Laboratory	1
<i>Major</i> Environmental Resource Management and Pollution Prevention	54
<i>GE</i> General Education (32-43 units)	
<i>Electives</i> Elective courses required when major units plus GE units total is less than 90	
<b>Total Units Required .....</b>	<b>90</b>

## Facility and Sustainable Building Management

### 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 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. The 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

*Program 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
ES 58	Introduction to Green Building	1
ES 69A	Introduction to Facilities Management	3
ES 70	Introduction to Energy	1
ES 71	Introduction to Sustainable Buildings	1
ES 78	Introduction to Energy Management Systems and Controls	1
ES 82	Project Management and Technical Report Writing for Energy Professionals	2
REST 50	Real Estate Principles	4
<b>Total Units Required .....</b>		<b>21</b>

##### Certificate of Achievement-Advanced

*Program 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.
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
ES 51B	Energy Efficient Buildings	3
ES 81	Leadership in Energy and Environmental Design/Sustainability Codes	2
<b>Total Units Required .....</b>		<b>37</b>

##### A.S. Degree

*Program 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.
2. Meet the A.A./A.S. degree requirements.
3. Complete the following.

##### Complete 13 units:

ACCT 1A	Financial Accounting I (5)	13
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)	
ES 4	Energy, the Environment, and Society (4)	
ES 51A	Sustainable Energy Systems (4)	
ES 51C	Building Automation Systems (2)	
ES 62A	Environmental Management Tools: Environmental Management Systems and Environmental Performance Reporting (4)	
ES 64	California's Approach to Global Warming/Global Climate Change (2)	
ES 69	Energy Management Within Your Organization (1)	
REST 53	Real Estate Finance (4)	
<i>Major</i>	<i>Facility and Sustainable Building Management</i>	50
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
	<b>Total Units Required .....</b>	<b>90</b>

## 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.

*Program 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.

- Meet the requirements for this certificate level.
- Complete the following.

ES 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
	<b>Total Units Required .....</b>	<b>26</b>

## 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.

*Program 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.

- Complete the Certificate of Achievement requirements. 26
- Meet the requirements for this certificate level.
- Complete the following.

ES 6	Introduction to Environmental Law	4
ES 66	Environmental Leadership	1
ES 67	Environmental Team-Building	1
ESCI 54	Wildlife Science Technician: Data Analysis	3
ESCI 55	Wildlife Science Technology: Corridor Design	3
ESCI 57	Wildlife Science Technician: Wildlife Monitoring	2

### Complete a minimum of two 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 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)	
	<b>Total Units Required .....</b>	<b>47</b>

## 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) or natural community and conservation plan (state).

*Program 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) 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 Science Technician: Wildlife Monitoring and Landscape Linkages for California	2

**Complete a minimum of two units not previously completed for the Certificate of Achievement and the Certificate of Achievement-Advanced:** 2

ES 80 series	ES 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)

<i>Major</i>	<i>Wildlife Science Technician</i>	<b>54</b>
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
<b>Total Units Required .....</b>		<b>90</b>

## 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, 2D hand drawn, 2D digital animation, 3D stop-motion and 3D computer animation. Students select electives that will help build skills for such specific career goals as 2D and 3D animators, illustrators, storyboard artists, visual development artists and background artists.

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

- Apply basic animation principles to 2D and 3D 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)	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: Stop Motion	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 units:**

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)
or F/TV 2AH	History of Cinema (1895-1950) - HONORS (4)
F/TV 2B	History of Cinema (1950-Present) (4)
or F/TV 2BH	History of Cinema (1950-Present) - HONORS (4)
F/TV 2C	Contemporary World Cinema (4)
or F/TV 2CH	Contemporary World Cinema - HONORS (4)
F/TV 10	Introduction to Electronic Media (4)
or F/TV 10H	Introduction to Electronic Media - HONORS (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	
	<b>Total Units Required .....</b>	<b>90</b>

**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 bachelor's 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.

*Program 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.

- 4**
1. Meet the requirements for this certificate level.
  2. Complete the following.

F/TV 1	Introduction to Cinematic Arts (4)	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)	4
or F/TV 10H	Introduction to Electronic Media - HONORS (4)	
F/TV 20	Beginning Video Production	4
F/TV 27	Nonlinear Editing	4

**Complete one course:**

F/TV 22	Beginning 16mm Motion Picture Production (4)	4
F/TV 23	Beginning TV Studio Production (4)	
F/TV 39	Intermediate Digital Film and Video Production (4)	
	<b>Total Units Required .....</b>	<b>24</b>

**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 bachelor's 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.

*Program 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)	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)	4
or F/TV 10H	Introduction to Electronic Media - HONORS (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

<b>Complete one course:</b>	<b>4-4.5</b>
F/TV 2A	History of Cinema (1895-1950) (4)
or F/TV 2AH	History of Cinema (1895-1950) - HONORS (4)
F/TV 2AW	History of Cinema (1895-1950) (4.5)
or F/TV 2AWH	History of Cinema (1895-1950) - HONORS (4.5)
F/TV 2B	History of Cinema (1950-Present) (4)
or F/TV 2BH	History of Cinema (1950-Present) - HONORS (4)
F/TV 2BW	History of Cinema (1950-Present) (4.5)
or F/TV 2BWH	History of Cinema (1950-Present) - HONORS (4.5)
F/TV 2C	Contemporary World Cinema (4)
or F/TV 2CH	Contemporary World Cinema - HONORS (4)
F/TV 2CW	Contemporary World Cinema (4.5)
or F/TV 2CWH	Contemporary World Cinema - HONORS (4.5)

<b>Complete one course:</b>	<b>4</b>
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)

<b>Complete a minimum of eight units below or from above (not already taken):</b>	<b>8</b>
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)
<b>Total Units Required</b>	<b>44-44.5</b>

<b>A.A. Degree</b>	
<i>Major</i>	Complete the Cert. of Achievement-Advanced requirements 44-44.5
<i>GE</i>	General Education (32-43 units)
<i>Electives</i>	Elective courses required when major units plus GE units total is less than 90
<b>Total Units Required</b>	<b>90</b>

## 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 bachelor's 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.

*Program 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)	4
or F/TV 1H	Introduction to Cinematic Arts - HONORS (4)	
F/TV 2A	History of Cinema (1895-1950) (4)	4
or F/TV 2AH	History of Cinema (1895-1950) - HONORS (4)	
F/TV 2B	History of Cinema (1950-Present) (4)	4
or F/TV 2BH	History of Cinema (1950-Present) - HONORS (4)	
F/TV 6A	Screenwriting Fundamentals for Film/Video I	4
F/TV 10	Introduction to Electronic Media (4)	4
or F/TV 10H	Introduction to Electronic Media - HONORS (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

<b>Complete a minimum of four units:</b>	<b>4</b>
F/TV 2C	Contemporary World Cinema (4)
or F/TV 2CH	Contemporary World Cinema - HONORS (4)
F/TV 2CW	Contemporary World Cinema (4.5)
or F/TV 2CWH	Contemporary World Cinema - HONORS (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)	
<i>Major</i>	<i>Film/TV: Screenwriting</i>	48
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
	<b>Total Units Required .....</b>	<b>90</b>

- 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.

ES 1	Introduction to Environmental Studies	4
ICS 7	Intercultural Communication (4) <i>also listed as COMM 7</i>	4
or ICS 7H	Intercultural Communication - HONORS (4) <i>also listed as COMM 7H</i>	
INTL 5	Global Issues	4
LIB 1	Library Research Skills	1

**Complete one 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 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)	
	<b>Total Units Required .....</b>	<b>21</b>

## 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.

*Program 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.

## 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.

*Program 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.

**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 (three 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)	4
or ANTH 2H	Cultural Anthropology - HONORS (4)	
ECON 1	Principles of Macroeconomics (4)	4
or ECON 1H	Principles of Macroeconomics - HONORS (4)	
ES 1	Introduction to Environmental Studies	4
GEO 10	World Regional Geography	4
ICS 7	Intercultural Communication (4)	4
	<i>also listed as COMM 7</i>	
or ICS 7H	Intercultural Communication - HONORS (4)	
	<i>also listed as COMM 7H</i>	
INTL 5	Global Issues	4
LIB 1	Library Research Skills	1

**Complete one 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 (three quarters) of college-level world language or three 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 World History courses completed above, 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) <i>also listed as INTL 10</i>

ARTS 2H	History of Art: Native Arts of Mesoamerica and the Andes (4) <i>also listed as INTL 21</i>
ARTS 2J	History of Art: Arts of Africa, Oceania and Native North America (4) <i>also listed as INTL 22</i>
ARTS 2K	History of Art: Visual Arts of Islam (4) <i>also listed as INTL 23</i>
ARTS 2L	History of Art: Visual Arts of Africa (4) <i>also listed as INTL 24</i>
ARTS 3TC	Women and Art (4) <i>also listed as WMST 3C</i>
F/TV 2A	History of Cinema (1895-1950) (4)
or F/TV 2AH	History of Cinema (1895-1950) - HONORS (4)
F/TV 2B	History of Cinema (1950-Present) (4)
or F/TV 2BH	History of Cinema (1950-Present) - HONORS (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) <i>also listed as HUMI 13</i>
MUSI 1C	Music Appreciation: World Music in America (4)
PHIL 14A	Indian Philosophy (4)
PHIL 14B	Chinese Philosophy (4)
PHIL 14C	Japanese Philosophy (4)

**Global Environment**

ES 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 or HIST 3BH	World History from 750 CE to 1750 CE (4) World History from 750 CE to 1750 CE - HONORS (4)
HIST 3C or HIST 3CH	World History from 1750 CE to the Present (4) World History from 1750 CE to the Present - HONORS (4)
HIST 6A or HIST 6AH	History of Western Civilization (4) History of Western Civilization - HONORS (4)
HIST 6B or HIST 6BH	History of Western Civilization (4) History of Western Civilization - HONORS (4)
HIST 6C or HIST 6CH	History of Western Civilization (4) History of Western Civilization - HONORS (4)
HIST 7A	Colonial Latin American History (4) <i>also listed as ICS 38A</i>
HIST 7B	Modern Latin American History (4) <i>also listed as ICS 38B</i>
HIST 16A	History of Africa to 1800 (4) <i>also listed as ICS 16A</i>
HIST 16B	History of Africa from 1800 to the Present (4) <i>also listed as ICS 16B</i>
HIST 19A	History of Asian Civilization: China and Japan (to the 19th Century) (4) <i>also listed as INTL 19A</i>
HIST 19B	History of Asian Civilization: China and Japan (19th - 21st Centuries) (4) <i>also listed as INTL 19B</i>
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

<i>Major</i>	<i>Global Studies</i>	53-68
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
	<b>Total Units Required .....</b>	<b>90</b>

## 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.

*Program 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
	<b>Total Units Required .....</b>	<b>23</b>

#### 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 units:

ARTS 4A	Beginning Drawing (4)	3
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)	
	<b>Total Units Required .....</b>	<b>54</b>

**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	
	<b>Total Units Required</b> .....	<b>90</b>

**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.

*Program 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
	<b>Total Units Required</b> .....	<b>25</b>

*\*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.

*Program 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
	<b>Total Units Required</b> .....	<b>24</b>

*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.

*Program 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
	<b>Total Units Required</b> .....	<b>25.5</b>

*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.

*Program 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
<b>Total Units Required .....</b>		<b>22.5</b>

*\*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.

*Program 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
<b>Total Units Required .....</b>		<b>24</b>

*\*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.

*Program 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
<b>Total Units Required .....</b>		<b>24.5</b>

*\*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.

*Program 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)	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
	<b>Total Units Required .....</b>	<b>44.5</b>

\*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.

*Program 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
	<b>Total Units Required .....</b>	<b>26</b>

*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.

*Program 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
	<b>Total Units Required .....</b>	<b>22</b>

\*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.

*Program 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
<b>Total Units Required .....</b>		<b>62.5</b>

\*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.

<i>Major</i>	<i>Complete the Cert. of Achievement-Advanced requirements</i>	<i>62.5</i>
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
<b>Total Units Required .....</b>		<b>90</b>

#### 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.

*Program 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)	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)	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)	4
or HIST 17CH	History of the United States from 1900 to the Present- HONORS (4)	

**Complete one 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 course:** **4**

HIST 7A	Colonial Latin American History (4) <i>also listed as ICS 38A</i>	
HIST 7B	Modern Latin American History (4) <i>also listed as ICS 38B</i>	
HIST 16A	History of Africa to 1800 (4) <i>also listed as ICS 16A</i>	
HIST 16B	History of Africa from 1800 to the Present (4) <i>also listed as ICS 16B</i>	
HIST 19A	History of Asian Civilization: China and Japan (to the 19th Century) (4) <i>also listed as INTL 19A</i>	
HIST 19B	History of Asian Civilization: China and Japan (19th - 21st Centuries) (4) <i>also listed as INTL 19B</i>	

**Complete one course:** **4**

HIST 2	Introduction to California Studies (4)	
HIST 9	Women in American History (4) <i>also listed as WMST 9</i>	
or HIST 9H	Women in American History - HONORS (4) <i>also listed as WMST 9H</i>	
HIST 10	History of California (4)	
or HIST 10H	History of California - HONORS (4)	
HIST 18A	African American History to 1865 (4) <i>also listed as ICS 18A</i>	
HIST 18B	African American History Since 1865 (4) <i>also listed as ICS 18B</i>	

HIST 28 Social Environmental History (4)  
*also listed as ICS 28*

<i>Major</i>	<i>History for Transfer</i>	<b>32</b>
<i>Transfer GE</i>	<i>CSU GE or IGETC for CSU pattern (47-61 units)</i>	
<i>Electives</i>	<i>CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90</i>	
<b>Total Units Required .....</b>		<b>90</b>

## HUMANITIES

### 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.

*Program 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 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 or HUMI 9H	Introduction to Comparative Religion (4) 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  or HUMI 18H	History as Mystery: A Critique of Western Perspectives in a Global Context (4) History as Mystery: A Critique of Western Perspectives in a Global Context - HONORS (4)	
HUMI 20	The Greek Achievement (4)	
	<b>Total Units Required .....</b>	<b>20</b>

**Complete one option:**

Option 1: General Multicultural Background  
Complete 16 units from three or more areas.

Option 2: Two Ethnic Areas  
Complete 16 units from two areas.

Option 3: One Ethnic Area  
Complete 16 units from one 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) <i>also listed as HIST 16A</i>
ICS 16B	History of Africa from 1800 to the Present (4) <i>also listed as HIST 16B</i>
ICS 18A	African American History to 1865 (4) <i>also listed as HIST 18A</i>
ICS 18B	African American History Since 1865 (4) <i>also listed as HIST 18B</i>

**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) <i>also listed as ELIT 24</i>
INTL 19A	History of Asian Civilization: China and Japan (to the 19th Century) (4) <i>also listed as HIST 19A</i>
INTL 19B	History of Asian Civilization: China and Japan (19th - 21st Centuries) (4) <i>also listed as HIST 19B</i>

**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) <i>also listed as HIST 7A</i>
ICS 38B	Modern Latin American History (4) <i>also listed as HIST 7B</i>

**Multicultural**

HIST 3A or HIST 3AH	World History from Prehistory to 750 CE (4) World History from Prehistory to 750 CE - HONORS (4)
HIST 3B or HIST 3BH	World History from 750 CE to 1750 CE (4) World History from 750 CE to 1750 CE - HONORS (4)

**INTERCULTURAL STUDIES**

**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 of 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.

*Program 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 <i>also listed as ARTS 2F</i>	4
ICS 7  or ICS 7H	Intercultural Communication (4) <i>also listed as COMM 7</i> Intercultural Communication - HONORS (4) <i>also listed as COMM 7H</i>	4
ICS 9	Race and Ethnicity: Belonging and Exclusion in the U.S.	4
ICS Electives	Complete eight units of ICS electives listed below (unduplicated by GE Requirements)	8

HIST 3C or HIST 3CH	World History from 1750 CE to the Present (4) 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 or ICS 17H	Critical Consciousness and Social Change (4) 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) <i>also listed as ADMJ 29</i>
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)
<b>Total Units Required .....40</b>	

### 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.

<i>Major</i>	<i>Complete the Cert. of Achievement-Advanced requirements plus four additional units</i>	44
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
<b>Total Units Required .....90</b>		

## JOURNALISM

### 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.

*Program 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:

EWRT 1A	Composition and Reading (5)	<b>5</b>
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
JOUR 61A	Student News Media Production I	3
PHTG 4	Introduction to Digital Photography	3

#### Complete one course:

EWRT 1B	Reading, Writing and Research (5)	<b>5</b>
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 two courses:

JOUR 61B	Student News Media Production II (3)	<b>2-8</b>
JOUR 61C	Editorial Leadership for Student News Media (3)	
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)	
JOUR 90	Introduction to Multimedia Reporting (4)	

#### Complete a minimum of four units:

ARTS 53	Introduction to Visual Technology (4)	<b>4</b>
ARTS 56	Graphic Design: Page Layout for Digital Publishing (4)	
CIS 89A	Web Page Development (3)	
COMM 9	Argumentation: Analysis of Oral and Written Communication (5)	
or COMM 9H	Argumentation: Analysis of Oral and Written Communication - HONORS (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)	
	<i>also listed as COMM 7</i>	
or ICS 7H	Intercultural Communication - HONORS (4)	
	<i>also listed as COMM 7H</i>	
ICS 29	Cultural Pluralism and American Law and Justice (4)	
	<i>also listed as ADMJ 29</i>	
LIB 1	Library Research Skills (1)	
POLI 1	American Government and Politics (5)	
or POLI 1H	American Government and Politics - HONORS (5)	
<i>Major</i>	<i>Journalism</i>	<i>27-33</i>
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
	<b>Total Units Required .....</b>	<b>90</b>

## 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.

*Program 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 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)	

Option 3:		
JOUR 90	Introduction to Multimedia Reporting (4)	

### Complete three 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)	
	<i>also listed as SOC 15</i>	
PHTG 1	Basic Photography (3)	
POLI 1	American Government and Politics (5)	
or POLI 1H	American Government and Politics - HONORS (5)	
POLI 2	Comparative Politics (4)	

<i>Major</i>	<i>Journalism for Transfer</i>	<i>28-34</i>
<i>Transfer GE</i>	<i>CSU GE or IGETC for CSU pattern (47-61 units)</i>	
<i>Electives</i>	<i>CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90</i>	
	<b>Total Units Required .....</b>	<b>90</b>

## 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.

*Program 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 unit from three different movement activity areas below:** 3

- Aquatics
- Combatives
- Dance
- Fitness
- Individual and Dual Sports
- Team Sports

**Complete two courses:** 10

BIOL 11	Human Biology (5)	10
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 Transfer GE Kinesiology for Transfer CSU GE or IGETC for CSU pattern (47-61 units)* 32

*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 nonprofit 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 [deanza.edu/vida](http://deanza.edu/vida) for more information on earning this certificate.

*Program 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 (4) <i>also listed as ICS 27</i>	4
or POLI 17H	Grassroots Democracy: Leadership and Power - HONORS (4) <i>also listed as ICS 27H</i>	

#### **Leadership Skills**

**Complete a minimum of four units:** 4

BUS 65	Leadership (5)	4
COMM 15 or COMM 15H	Critical Decision-Making in Groups (5) Critical Decision-Making in Groups - HONORS (5)	
COMM 70 or COMM 70H	Effective Organizational Communication (5) Effective Organizational Communication - HONORS (5)	
ES 65	Environmental Stewardship (1)	
ES 66	Environmental Leadership (1)	
ES 67	Environmental Team-Building (1)	
ES 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 units:** 4

ICS 10	An Introduction to African American Studies (4)
ICS 17 or ICS 17H	Critical Consciousness and Social Change (4) 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) <i>also listed as ADMJ 29</i>
POLI 15	Grassroots Democracy: Race, Politics and the American Promise (4) <i>also listed as ICS 25</i>
POLI 16	Grassroots Democracy: Social Movements Since the 1960s (4) <i>also listed as ICS 36</i>
SOC 5	Sociology of Globalization and Social Change (4) <i>also listed as INTL 8</i>
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 units:**

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)
<b>Total Units Required ..... 18</b>	

## 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; or 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.**

*Program 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, 9H, 10, 10H, 15, 15H  
**DANC** 22, 22K, 22M, 23A, 23L, 23M, 23N, 24A, 25A, 25B, 27A, 27B, 27C, 27D, 37A, 38A  
**ES (Environmental Studies)** 3  
**ELIT** 8, 10, 10H, 11, 12, 17, 17H, 19, 21, 22, 24, 39, 40, 41, 41H, 44, 46A, 46AH, 46B, 46BH, 46C, 46CH, 47A, 47B, 48A, 48AH, 48B, 48BH, 48C, 48CH  
**ESL** 6  
**EWRT** 1B, 1BH, 1C, 2, 2H, 30, 40, 41, 42  
**F/TV** 1, 1H, 2A, 2AH, 2AW, 2AWH, 2B, 2BH, 2BW, 2BWH, 2C, 2CH, 2CW, 2CWH, 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, 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, 67, 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, 3H, 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  
**ES (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, 2AH, 2B, 2BH, 10, 10H, 11, 12, 17, 22, 23, 41, 41H, 42, 42H, 43, 43H, 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  
**CD** 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  
**ES (Environmental Studies)** 1, 2, 3  
**ECON** 1, 1H, 2, 2H, 3, 3H, 4, 5  
**EDUC** 1, 46  
**F/TV** 10, 10H  
**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, 10H, 20, 30  
**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, 1H, 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.

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

- Identify management issues and apply solutions and leadership styles.

- Meet the requirements for this certificate level.
- 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 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)	
	<b>Total Units Required</b> .....	<b>24</b>

## Management

### A.A. Degree

The A.A. degree in Management prepares students for a career managing and leading employees in positions such as 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.

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

- Analyze management issues, develop solutions and compare leadership styles for a given organizational environment.

- Meet the A.A./A.S. degree requirements.
- 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)	

<i>Major</i>	<i>Management</i>	53
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
	<b>Total Units Required</b> .....	<b>90</b>

## 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, Taiwan, 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.

*Program 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.

- Meet the requirements for this certificate level.
- Complete the following.

INTL 19A	History of Asian Civilization: China and Japan (to the 19th Century)	4
	<i>also listed as HIST 19A</i>	
MAND 1	Elementary Mandarin (First Quarter)	5
MAND 2	Elementary Mandarin (Second Quarter)	5
MAND 3	Elementary Mandarin (Third Quarter)	5
	<b>Total Units Required</b> .....	<b>19</b>

### 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.

*Program 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
<b>Total Units Required .....</b>		<b>34</b>

## 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.

*Program 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 course:** 5

ACCT 1A	Financial Accounting I (5)	5
or ACCT 1AH	Financial Accounting I - HONORS (5)	
BUS 18	Business Law I (5)	24
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)	
<b>Total Units Required .....</b>		

## 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 or coordinator and sales support specialist. Students learn the fundamentals of general business administration with an emphasis on marketing, advertising, selling, international business and management.

*Program 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)	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 units:** 9

BUS 21	Business and Society (5)	9
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 California Massage Therapy Council (CAMTC) certification. (The CAMTC will not accept online courses toward certification.)

*Program 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 (60 hours)	3
MASG 50B	Intermediate Massage (72 hours)	4
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 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 National Certification Board for Therapeutic Massage and Bodywork (NCBTMB) certification. The certification allows a therapist to work within a majority of the United States. (The NCBTMB will not accept online courses toward certification.)

*Program 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 (60 hours)	3
MASG 50B	Intermediate Massage (72 hours)	4
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 units: 3**

**One 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 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)	
	<b>Total Units Required (876 hours min.)</b> .....	<b>44.5</b>

\*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 toward certification.)

Program 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 (60 hours)	3
MASG 50B	Intermediate Massage (72 hours)	4
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 units: 4**  
**One 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	
	<b>Total Units Required (1,020 hours)</b> .....	<b>90</b>

## 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.

*Program 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)	5
or MATH 1AH	Calculus - HONORS (5)	
MATH 1B	Calculus (5)	5
or MATH 1BH	Calculus - HONORS (5)	
MATH 1C	Calculus (5)	5
or MATH 1CH	Calculus - HONORS (5)	
MATH 1D	Calculus (5)	5
or MATH 1DH	Calculus - HONORS (5)	
MATH 2A	Differential Equations (5)	5
or MATH 2AH	Differential Equations - HONORS (5)	
MATH 2B	Linear Algebra (5)	5
or MATH 2BH	Linear Algebra - HONORS (5)	
<i>Major</i>	<i>Mathematics for Transfer</i>	<i>30</i>
<i>Transfer GE</i>	<i>CSU GE or IGETC for CSU pattern (47-61 units)</i>	
<i>Electives</i>	<i>CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90</i>	
<b>Total Units Required .....</b>		<b>90</b>

## 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.

*Program 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/Immuno-hematology Laboratory	1.5
HTEC 84A	Clinical Immunology/Immuno-hematology Lecture	4.5
HTEC 85A	Clinical Chemistry I Laboratory	1.5
HTEC 85C	Clinical Chemistry I Lecture	4.5
<b>Total Units Required .....</b>		<b>24</b>

### Medical Laboratory Technology (MLT)

#### 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.

*Program 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

<b>Complete the following:</b>	<b>16</b>
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

<b>Complete one sequence:</b>	<b>15-18</b>
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)
<b>Prerequisite Units Required</b> .....	<b>31-34</b>

<b>Requirements:</b>	<b>57</b>
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
<b>Total Units Required,</b>	
<b>Incl. Prerequisites</b> .....	<b>88-91</b>

## 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.

*Program 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 bachelor's degree in Music. Students are encouraged to take private instruction (not provided by the college) each term along with classes in their specialization.

*Program 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 course:** 4

MUSI 1A	Music Appreciation: Music in Western Cultures (4)
MUSI 1B	Music Appreciation: Jazz Styles (4)

MUSI 1C	Music Appreciation: World Music in America (4)	
MUSI 1D	Music Appreciation: Rock - From Roots to Rap (4)	

**Complete a minimum of 12 units:**

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 units:**

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)	

<i>Major</i>	<i>Music</i>	46
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
<b>Total Units Required .....</b>		<b>90</b>

## NURSING

### LVN Transition to RN

#### A.S. Degree

12

Admission to the program is limited. The Licensed Vocational Nurse (LVN) Transition to Registered Nurse (RN) Program is a minimum of three 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 the student's placement in the program. 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 quarters in length (not including prerequisites).

6

*Program 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 prerequisites or their equivalents must be completed with a "C" grade or better:

MATH 114	College Math Preparation Level 3: Intermediate Algebra	5
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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 course:

4

ANTH 2	Cultural Anthropology (4)	
or ANTH 2H	Cultural Anthropology - HONORS (4)	
SOC 1	Introduction to Sociology (4)	

**These nine 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 course:**

ESL 5^	Advanced Composition and Reading (5)	5
EWRT 1A	Composition and Reading (5)	
or EWRT 1AH	Composition and Reading - HONORS (5)	

**Complete one course:**

COMM 1	Public Speaking (5)	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 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:**

Complete with a "C" grade or better: **16**

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 course from GE Area C1 - Arts (4 units)
- One course from GE Area C2 - Humanities (4 units)
- One unit from GE Area E in PE or PEA activities
- One 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](http://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 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 quarters in length (not including prerequisites).

*Program 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:**

The 11 prerequisites in this section will be used for screening and admission into the RN program. **7**

These two 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 prerequisites or their equivalents must be completed with a "C" grade or better.**

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 course:** 5  
 ESL 5<sup>^</sup> Advanced Composition and Reading (5)  
 EWRT 1A Composition and Reading (5)  
 or EWRT 1AH Composition and Reading - HONORS (5)

**Complete one 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 years of nursing program admission screening.*

<sup>^</sup>ESL 5 restricted to students whose native language is not English.

**Prerequisite/Corequisite:** 4  
 Complete one 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
<b>Total Units Required,</b>		
<b>Incl. Prerequisites .....113</b>		

*Recommended*  
 NURS 151, 152, 153, 154

**Nursing A.S. Degree General Education Requirements  
 Complete with a minimum 2.0 GPA:**

- One course from GE Area C1 - Arts (4 units)
- One course from GE Area C2 - Humanities (4 units)
- One unit from GE Area E in PE or PEA activities
- One 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](http://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:

- 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.
- Develop in paralegal students an understanding of the basic organization and operation of the federal and California state legal systems.
- Promote the development of paralegals who understand and appreciate the role of and ethical responsibilities of paralegals in the legal field.
- Develop in paralegal students the following practical skills:
  - Written and oral communication skills
  - Ability to do basic legal research, including computer assisted legal research, demonstrating familiarity with both federal and state research tools
  - Ability to do basic legal writing including office correspondence, interoffice memoranda and memoranda of law
  - In-depth knowledge and ability to function in the area of civil litigation including the ability to draft documents such as pleadings and motions
  - 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.

*Program 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 <i>also listed as ADMJ 95 and POLI 95</i>	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 units below OR from the courses listed above (not already taken): 4

ADMJ 3	Concepts of Criminal Law (CP 2) (4) <i>also listed as PARA 3 and POLI 13</i>
ADMJ 11	Federal Courts and Constitutional Law (4) <i>also listed as PARA 11 and POLI 11</i>
ADMJ 54	Youth and the Law (4) <i>also listed as PARA 54 and SOC 54</i>
ADMJ 61	Criminal Investigation (4)
ADMJ 84	Forensic Science (4)
ADMJ 90A	Legal Aspects of Evidence (CP 4) (4) <i>also listed as PARA 90A</i>
BUS 18	Business Law I (5)
ES 6	Introduction to Environmental Law (4)
ICS 29	Cultural Pluralism and American Law and Justice (4) <i>also listed as ADMJ 29</i>
LIB 51	Business Resources on the Internet (1)
PARA 25	Law and Social Change (4) <i>also listed as ADMJ 25</i>
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) <i>also listed as ADMJ 74A and PSYC 74A</i>
PARA 75	Principles and Procedures of the Justice System (4) <i>also listed as ADMJ 75 and POLI 75</i>
REST 52A	Legal Aspects of Real Estate (4)
<b>Total Units Required ..... 48</b>	

#### A.A. Degree

<i>Major</i>	Complete the Cert. of Achievement-Advanced requirements	48
<i>GE</i>	General Education (32-43 units)	
<i>Electives</i>	Elective courses required when major units plus GE units total is less than 90	
<b>Total Units Required ..... 90</b>		

## 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.

*Program 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.

ARTS 4A	Beginning Drawing	4
ARTS 8	Two-Dimensional Design	4
ARTS 10A	Three-Dimensional Design	4
ARTS 10B	Intermediate Three-Dimensional Design	4
PHTG 1	Basic Photography	3
PHTG 4	Introduction to Digital Photography	3
PHTG 58A	Photographic Photoshop I	3

**Complete one option:** 4-8

- Option 1:
- 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)

- Option 2:
- 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)

- Option 3:
- ARTS 2G History of Art: Arts of Asia (4)  
*also listed as INTL 10*

**Complete one option:** 4-8

- Option 1:
- ARTS 4D Representational Drawing (4)
- Option 2:
- ARTS 15A Acrylic Painting I (4)
- ARTS 16A Oil Painting I (4)

- Option 3:
- ARTS 18A Ceramics (4)
- ARTS 18B Ceramics (Beginning Wheel Throwing) (4)

**Complete a minimum of seven units:** 7

- ARTS 2D History of Art: Europe and the United States from Post-Impressionism to the Present (4)
- ARTS 4B Intermediate Drawing (4)
- ARTS 14A Watercolor Painting I (4)
- ARTS 53 Introduction to Visual Technology (4)
- ARTS 54 Visual Technology II (4)
- ARTS 55A Graphic Design-Communication I (4)
- ARTS 55B Graphic Design-Communication II (4)

F/TV 2A	History of Cinema (1895-1950) (4)	
or F/TV 2AH	History of Cinema (1895-1950) - HONORS (4)	
F/TV 2B	History of Cinema (1950-Present) (4)	
or F/TV 2BH	History of Cinema (1950-Present) - HONORS (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 15	Discussion on the Arts (4)	
PHTG 2	Intermediate Photography (3)	
PHTG 5	Intermediate Digital Photography (3)	
PHTG 21	Contemporary Trends in Photography (4)	
PHTG 54	Experimental Photography (3)	
PHTG 57A	Commercial Lighting I (3)	

<i>Major</i>	<i>Photographic Arts (Film and Digital)</i>	40-48
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
	<b>Total Units Required .....</b>	<b>90</b>

## 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.

*Program 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)	5
or POLI 1H	American Government and Politics - HONORS (5)	

<b>Complete three courses:</b>	<b>12-13</b>
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) <i>also listed as SOC 15</i>
or MATH 10	Elementary Statistics and Probability (5)
or MATH 10H	Elementary Statistics and Probability - HONORS (5)

<b>Complete three courses below or from above (not already taken):</b>	<b>12</b>
ADMJ 29	Cultural Pluralism and American Law and Justice (4) <i>also listed as ICS 29</i>
ANTH 2	Cultural Anthropology (4)
or ANTH 2H	Cultural Anthropology - HONORS (4)
ES 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) <i>also listed as ICS 25</i>
POLI 16	Grassroots Democracy: Social Movements Since the 1960s (4) <i>also listed as ICS 36</i>
POLI 17	Grassroots Democracy: Leadership and Power (4) <i>also listed as ICS 27</i>
or POLI 17H	Grassroots Democracy: Leadership and Power - HONORS (4) <i>also listed as ICS 27H</i>
SOC 5	Sociology of Globalization and Social Change (4) <i>also listed as INTL 8</i>
<b>Major</b>	<b>Political Science for Transfer</b>
<b>Transfer GE</b>	<b>CSU GE or IGETC for CSU pattern (47-61 units)</b>
<b>Electives</b>	<b>CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90</b>
	<b>Total Units Required .....90</b>

## 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.

*Program 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

<b>Complete one course:</b>	<b>3</b>
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)
<b>Total Units Required .....</b>	<b>18</b>

### 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.

*Program 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)

<i>Major</i>	<i>Professional Photography (Film and Digital)</i>	<i>44</i>
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
	<b>Total Units Required .....</b>	<b>90</b>

*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, as well as 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.

*Program 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 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)	
	<b>Total Units Required .....</b>	<b>19-20.5</b>

## PUBLIC RELATIONS

### Public Relations

**Certificate of Achievement**

The Certificate of Achievement in Public Relations meets the needs of community college students and working professionals in areas such as sales, fund raising or marketing who wish to expand their skill repertoire in the area of public relations. Potential careers upon completion include public relations specialist, public relations and fundraising manager, or advertising and promotion manager.

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

- Demonstrate competency in the basics of journalistic and public relations writing, including structure of a story and a press release.
- Demonstrate competency in research, information gathering and critical analysis of information using techniques such as observation, online research and interviewing.
- Summarize appropriate steps to gain employment in public relations industry.

**Certificate of Achievement**

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

BUS 90	Principles of Marketing	5
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 80	Introduction to Public Relations	4

**Complete one course:** **3-5**

BUS 59	Promoting Your Business with Social Media (5)
JOUR 61A	Student News Media Production I (3)

**Total Units Required ..... 22-24**

## Public Relations

### Certificate of Achievement-Advanced

The Certificate of Achievement-Advanced in Public Relations meets the needs of community college students seeking training in a skill set in preparation for a career in public relations, promotions, marketing communication or fundraising.

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

- Demonstrate competency in the basics of journalistic and public relations writing, including structure of a story and a press release.
- Demonstrate competency in research, information gathering and critical analysis of information using techniques such as observation, online research and interviewing.
- Demonstrate understanding of marketing and communication in organizational structures.
- Summarize appropriate steps to gain employment in public relations industry.

### Certificate of Achievement-Advanced

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

BUS 59	Promoting Your Business with Social Media	5
BUS 90	Principles of Marketing	5
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
JOUR 80	Introduction to Public Relations	4

**Complete three courses:** **11-15**

BUS 10	Introduction to Business (5)
BUS 89	Advertising (5)
COMM 70	Effective Organizational Communication (5)
or COMM 70H	Effective Organizational Communication - HONORS (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)
JOUR 61B	Student News Media Production II (3)
JOUR 61C	Editorial Leadership for Student News Media (3)

**Total Units Required ..... 38-42**

## 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.

*Program 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 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)	

<i>Major</i>	<i>Real Estate</i>	45
<i>GE</i>	<i>General Education (32-43 units)</i>	
<i>Electives</i>	<i>Elective courses required when major units plus GE units total is less than 90</i>	
	<b>Total Units Required .....</b>	<b>90</b>

For more program information see the California Department of Real Estate Web site at [www.dre.ca.gov](http://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.

*Program 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
	<b>Complete two courses:</b>	<b>8</b>
SOC 14	The Process of Social Research (4)	
SOC 15	Basic Statistics and Research Methods in Social and Behavioral Sciences (4) <i>also listed as PSYC 15</i>	
SOC 20	Social Problems (4)	

	<b>Complete three courses:</b>	<b>12</b>
ICS 4	Race, Ethnicity and Inequality (4)	
PSYC 8	Introduction to Social Psychology (4)	
SOC 28	Sociology of Women and Men (4) <i>also listed as WMST 28</i>	
SOC 29	Sociology of Structural Racism in the United States (4)	
SOC 35	Marriage, Family, and Intimate Relationships (4)	

	<b>Complete one course:</b>	<b>4</b>
GEO 10	World Regional Geography (4)	
PSYC 1	General Psychology (4)	
SOC 51	Women in Crime (4) <i>also listed as ADMJ 51</i>	
SOC 54	Youth and the Law (4) <i>also listed as ADMJ 54 and PARA 54</i>	
SOC 73	Crime and Criminology (4) <i>also listed as ADMJ 73</i>	

<i>Major</i>	<i>Sociology for Transfer</i>	28
<i>Transfer GE</i>	<i>CSU GE or IGETC for CSU pattern (47-61 units)</i>	
<i>Electives</i>	<i>CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90</i>	
	<b>Total Units Required .....</b>	<b>90</b>

## WOMEN'S STUDIES

### 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 nonprofit 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.

*Program 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 four courses:** **16**

ICS 26	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer Studies (4)
WMST 3C	Women and Art (4) <i>also listed as ARTS 3TC</i>
WMST 9	Women in American History (4) <i>also listed as HIST 9</i>

or WMST 9H	Women in American History - HONORS (4) <i>also listed as HIST 9H</i>
WMST 12	Psychology of Gender (4) <i>also listed as PSYC 12</i>
WMST 21	Women in Literature (4) <i>also listed as ELIT 21</i>
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) <i>also listed as SOC 28</i>
WMST 29	Masculinities in U.S. Culture and Society (4)
WMST 31	Women and Popular Culture (4)
WMST 49	Women and Philosophy (4) <i>also listed as PHIL 49</i>

**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](http://www.ASSIST.org) for updates. The 2018-2019 UC transferable course should be available on the ASSIST website when the system is updated.

### 2017-2018 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/PARA/POLI 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 and 15 combined: maximum credit, one course
COUN	COUN 50 and HUMA 50 combined: maximum credit, 4.5 quarter units
ESCI	ESCI 19, 20, 21 and 30 combined: maximum credit, three courses
F/TV	F/TV 2A, 2H and 2AW, 2 AWH combined: maximum credit, one course F/TV 2B, 2 BH and 2BW combined: maximum credit, one course F/TV 2C, 2CH and 2CW, 2 CWH 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
HUMA	HUMA 50 and COUN 50 combined: maximum credit, 4.5 quarter units
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	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 <a href="http://www.ASSIST.org">www.ASSIST.org</a>
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
MUSI	No credit for MUSI 10A if taken after 3A
PERS	PERS 2 corresponds to two years of high school study
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 <a href="http://www.ASSIST.org">www.ASSIST.org</a> Any or all of the following PE courses combined: maximum credit, 12 quarter units: PE 32B, 32F, 32G, 32H, 32HX, 32I, 32IX, 32J, 32JX, 32K, 32L, 32LX, 32M, 32MX, 32N, 32P, 32S, 32SX, 32T, 32W
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**  
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.

**Limitation**  
An "ea" after the unit value of a course on an agreement listed at [www.ASSIST.org](http://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 a grade in a particular credit course re-enrolls in that same course and receives another 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 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 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:

- Alleviating substandard academic work (CCR §55042)
- A significant lapse of time (5 years) since the last time the student was enrolled in the course (CCR §55043)
- Legally mandated training for employment or licensure (CCR §55000)
- Extenuating circumstances (CCR §55045)
- 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):

- 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 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 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 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 he or she 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 [deanza.edu/apply-and-register/register/repeat\\_limits.html](http://deanza.edu/apply-and-register/register/repeat_limits.html).



# COURSE LISTINGS

## ACCOUNTING

<p><b>ACCT 1A Financial Accounting I</b> <b>5 Units</b>            (Not open to students with credit in ACCT 1AH.)  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.</i>  <i>Five hours lecture (60 hours total per quarter).</i>            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.</p>	<p><b>ACCT 51B Intermediate Accounting</b> <b>5 Units</b>  <i>Prerequisite: ACCT 1B or ACCT 1BH.</i>  <i>Advisory: ACCT 51A.</i>  <i>Five hours lecture (60 hours total per quarter).</i>            Principles, control, and theory of accounting for liabilities and equities, corporations, accounting changes, pensions and leases, price level and fair-value accounting.</p>
<p><b>ACCT 1AH Financial Accounting I - HONORS</b> <b>5 Units</b>            (Not open to students with credit in ACCT 1A.)  <i>(Admission into this course requires consent of the Honors Program Coordinator.)</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.</i>  <i>Five hours lecture (60 hours total per quarter).</i>            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.</p>	<p><b>ACCT 52 Advanced Accounting</b> <b>5 Units</b>  <i>Prerequisite: ACCT 1B or ACCT 1BH.</i>  <i>Advisory: ACCT 51B.</i>  <i>Five hours lecture (60 hours total per quarter).</i>            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.</p>
<p><b>ACCT 1B Financial Accounting II</b> <b>5 Units</b>            (Not open to students with credit in ACCT 1BH.)  <i>Prerequisite: ACCT 1A or ACCT 1AH.</i>  <i>Five hours lecture (60 hours total per quarter).</i>            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, including corporate and partnership financial statements.</p>	<p><b>ACCT 58 Auditing</b> <b>5 Units</b>  <i>Prerequisite: ACCT 1B or ACCT 1BH.</i>  <i>Advisory: ACCT 51B.</i>  <i>Five hours lecture (60 hours total per quarter).</i>            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.</p>
<p><b>ACCT 1BH Financial Accounting II - HONORS</b> <b>5 Units</b>            (Not open to students with credit in ACCT 1B.)  <i>(Admission into this course requires consent of the Honors Program Coordinator.)</i>  <i>Prerequisite: ACCT 1A or ACCT 1AH.</i>  <i>Five hours lecture (60 hours total per quarter).</i>            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.</p>	<p><b>ACCT 64 Payroll and Business Tax Accounting</b> <b>4 Units</b>  <i>Prerequisite: ACCT 1A or ACCT 1AH.</i>  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 212 or equivalent.</i>  <i>Four hours lecture (48 hours total per quarter).</i>            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.</p>
<p><b>ACCT 1C Managerial Accounting</b> <b>5 Units</b>            (Not open to students with credit in ACCT 1CH.)  <i>Prerequisite: ACCT 1B or ACCT 1BH.</i>  <i>Five hours lecture (60 hours total per quarter).</i>            Study the role of management accounting information in organizations for operational control, product and customer costing and performance measurement.</p>	<p><b>ACCT 66 Cost Accounting</b> <b>5 Units</b>  <i>Prerequisite: ACCT 1B or ACCT 1BH.</i>  <i>Advisory: ACCT 1C or ACCT 1CH.</i>  <i>Five hours lecture (60 hours total per quarter).</i>            Procedures, practices, and fundamentals used by accountants when costing products or services, evaluating and measuring performances, and reporting results to users of accounting information.</p>
<p><b>ACCT 1CH Managerial Accounting - HONORS</b> <b>5 Units</b>            (Not open to students with credit in ACCT 1C.)  <i>(Admission into this course requires consent of the Honors Program Coordinator.)</i>  <i>Prerequisite: ACCT 1B or ACCT 1BH.</i>  <i>Five hours lecture (60 hours total per quarter).</i>            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.</p>	<p><b>ACCT 67 Individual Income Taxation</b> <b>5 Units</b>            (Formerly ACCT 67A.)  <i>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).</i>  <i>Five hours lecture (60 hours total per quarter).</i>            A study of current federal and California state income tax law and the procedures for preparing an individual's tax return.</p>
<p><b>ACCT 51A Intermediate Accounting</b> <b>5 Units</b>  <i>Prerequisite: ACCT 1B or ACCT 1BH.</i>  <i>Five hours lecture (60 hours total per quarter).</i>            Principles, control, and theory of accounting for assets, financial statements, cash and cash flows, receivables, inventories, plant and equipment, intangible assets.</p>	<p><b>ACCT 68 Advanced Tax Accounting</b> <b>5 Units</b>  <i>Advisory: ACCT 1A or ACCT 1AH.</i>  <i>Five hours lecture (60 hours total per quarter).</i>            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.</p>
	<p><b>ACCT 73 Fraud Detection and Deterrence</b> <b>5 Units</b>  <i>Prerequisite: ACCT 1B or ACCT 1BH.</i>  <i>Five hours lecture (60 hours total per quarter).</i>            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.</p>
	<p><b>ACCT 74 Accounting Ethics</b> <b>5 Units</b>  <i>Prerequisite: ACCT 1A or ACCT 1AH.</i>  <i>Five hours lecture (60 hours total per quarter).</i>            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.</p>
	<p><b>ACCT 75 Accounting for Government and Nonprofit Entities</b> <b>5 Units</b>  <i>Prerequisite: ACCT 1B or ACCT 1BH.</i>  <i>Advisory: ACCT 1C or ACCT 1CH.</i>  <i>Five hours lecture (60 hours total per quarter).</i>            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</p>

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 administering 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.

<b>A</b>	<b>ADMJ 56</b>	<b>Practical Writing for Administration of Justice</b>	<b>4 Units</b>
	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273. Four hours lecture (48 hours total per quarter).</i>		
	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.		
	<b>ADMJ 61</b>	<b>Criminal Investigation</b>	<b>4 Units</b>
	<i>Prerequisite: ADMJ 3 (may be taken concurrently) or ADMJ 75 (may be taken concurrently).</i>		
	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273. Four hours lecture (48 hours total per quarter).</i>		
	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.		
	<b>ADMJ 62</b>	<b>Sexual Assault, Police and Community Response</b>	<b>4 Units</b>
	<i>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.)</i>		
	<i>Four hours lecture (48 hours total per quarter).</i>		
	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.		
	<b>ADMJ 64</b>	<b>Administration of Justice Internship</b>	<b>1 Unit</b>
	<b>ADMJ 64X</b>		<b>2 Units</b>
	<b>ADMJ 64Y</b>		<b>3 Units</b>
	<b>ADMJ 64Z</b>		<b>4 Units</b>
<i>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).</i>			
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.			
<b>ADMJ 69</b>	<b>Administration of Justice Field Trips</b>	<b>1 Unit</b>	
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273. Three hours laboratory (36 hours total per quarter).</i>			
A survey of current conditions in law enforcement, probation, and corrections and visits to adult or juvenile detention and correctional facilities in Northern California.			
<b>ADMJ 73</b>	<b>Crime and Criminology</b>	<b>4 Units</b>	
<i>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.)</i>			
<i>Four hours lecture (48 hours total per quarter).</i>			
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.			
<b>ADMJ 74A</b>	<b>Interviewing, Interrogation and Crisis Intervention</b>	<b>4 Units</b>	
<i>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.)</i>			
<i>Four hours lecture (48 hours total per quarter).</i>			
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.			
<b>ADMJ 75</b>	<b>Principles and Procedures of the Justice System</b>	<b>4 Units</b>	
<i>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.)</i>			
<i>Four hours lecture (48 hours total per quarter).</i>			
Procedures followed by law enforcement and courts in criminal cases; constitutional principles governing those procedures.			
<b>ADMJ 78</b>	<b>Correctional Investigation</b>	<b>4 Units</b>	
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273. Four hours lecture (48 hours total per quarter).</i>			
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.			
<b>ADMJ 84</b>	<b>Forensic Science</b>	<b>4 Units</b>	
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273. Four hours lecture (48 hours total per quarter).</i>			
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.

**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.

<b>A</b>	<p><b>ARTS 2J History of Art: Arts of Africa, Oceania and Native North America 4 Units</b>  <i>(See general education pages for the requirement this course meets.)</i>                      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.</p>	<p><b>ARTS 4B Intermediate Drawing 4 Units</b>                      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.</p>
	<p><b>ARTS 2K History of Art: Visual Arts of Islam 4 Units</b>                      (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.</p>	<p><b>ARTS 4C Life Drawing 4 Units</b>                      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.</p>
	<p><b>ARTS 2L History of Art: Visual Arts of Africa 4 Units</b>                      (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.</p>	<p><b>ARTS 4D Representational Drawing 4 Units</b>                      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.</p>
	<p><b>ARTS 3TC Women and Art 4 Units</b>                      (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.</p>	<p><b>ARTS 8 Two-Dimensional Design 4 Units</b>                      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.</p>
	<p><b>ARTS 3TD American Art: Public and Private 4 Units</b>                      (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.</p>	<p><b>ARTS 10A Three-Dimensional Design 4 Units</b>                      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.</p>
	<p><b>ARTS 3TE Today's Art Scene 4 Units</b>                      (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.</p>	<p><b>ARTS 10B Intermediate Three-Dimensional Design 4 Units</b>                      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.</p>
	<p><b>ARTS 4A Beginning Drawing 4 Units</b>                      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.</p>	<p><b>ARTS 12 Design and Color 4 Units</b>                      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.</p>
		<p><b>ARTS 14A Watercolor Painting I 4 Units</b>                      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.</p>
		<p><b>ARTS 14B Watercolor Painting II 4 Units</b>                      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.</p>
		<p><b>ARTS 14C Watercolor Painting III 4 Units</b>                      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.</p>

<p><b>ARTS 15A Acrylic Painting I</b> 4 Units  <i>Prerequisite:</i> ARTS 4A.  <i>Advisory:</i> 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.</p>	<p><b>ARTS 18D Ceramics Hand Building</b> 4 Units  <i>Prerequisite:</i> 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.</p>
<p><b>ARTS 15B Acrylic Painting II</b> 4 Units  <i>Prerequisite:</i> ARTS 15A.  <i>Advisory:</i> 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.</p>	<p><b>ARTS 18E Ceramics (Advanced Wheel Throwing)</b> 4 Units  <i>Prerequisite:</i> 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.</p>
<p><b>ARTS 15C Acrylic Painting III</b> 4 Units  <i>Prerequisite:</i> ARTS 15B.  <i>Advisory:</i> 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.</p>	<p><b>ARTS 19H Ceramics Raku</b> 4 Units  <i>Prerequisite:</i> 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.</p>
<p><b>ARTS 16A Oil Painting I</b> 4 Units  <i>Prerequisite:</i> ARTS 4A.  <i>Advisory:</i> 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.</p>	<p><b>ARTS 19J Ceramics Techniques</b> 4 Units  <i>Prerequisite:</i> 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.</p>
<p><b>ARTS 16B Oil Painting II</b> 4 Units  <i>Prerequisite:</i> ARTS 16A.  <i>Advisory:</i> 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.</p>	<p><b>ARTS 19K Ceramics Decoration</b> 4 Units  <i>Prerequisite:</i> 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.)            Surface treatments and refinement used in the production of stoneware, earthenware and porcelain.</p>
<p><b>ARTS 16C Oil Painting III</b> 4 Units  <i>Prerequisite:</i> ARTS 16B.  <i>Advisory:</i> 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.</p>	<p><b>ARTS 19M Ceramics Low Fire</b> 4 Units  <i>Prerequisite:</i> 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.</p>
<p><b>ARTS 18A Ceramics</b> 4 Units  <i>Advisory:</i> 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.)            An introduction to ceramics materials, concepts, and processes including basic design principles, creative development, hand-building, throwing, glaze techniques, firing and ceramic terminology. Aesthetics and creative development of clay objects examining historical, contemporary, and personal modes of expression across cultures will be covered.</p>	<p><b>ARTS 20 Ceramics Individual Laboratory</b> 2 Units  <i>Prerequisite:</i> 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.</p>
<p><b>ARTS 18B Ceramics (Beginning Wheel Throwing)</b> 4 Units  <i>Prerequisite:</i> 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).</p>	<p><b>ARTS 37A Sculpture</b> 4 Units  <i>Advisory:</i> 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.</p>
<p><b>ARTS 18C Ceramics (Intermediate Wheel Throwing)</b> 4 Units  <i>Prerequisite:</i> 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 ARTS 18B, Ceramics (Beginning Wheel Throwing).</p>	<p><b>ARTS 37B Intermediate Sculpture</b> 4 Units  <i>Prerequisite:</i> ARTS 37A.  <i>Advisory:</i> 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.</p>
<p><b>ARTS 37A Sculpture</b> 4 Units  <i>Advisory:</i> 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.</p>	<p><b>ARTS 37C Advanced Sculpture</b> 4 Units  <i>Prerequisite:</i> ARTS 37B.  <i>Advisory:</i> 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.</p>

<p><b>A</b></p>	<p><b>ARTS 53 Introduction to Visual Technology 4 Units</b>  <i>(Formerly ARTS 53A.)</i>                      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.</p>	<p><b>ARTS 58C Advanced Furniture Design 4 Units</b>                      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).  <i>(This course is included in the Industrial Design Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>                      Advanced furniture design, with an emphasis on individual projects and further development on skills in design, construction and craftsmanship.</p>
<p><b>ARTS 54 Visual Technology II 4 Units</b>  <i>(Formerly ARTS 53B.)</i>                      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.</p>	<p><b>ARTS 63 Business Practices for Graphic Designers 4 Units</b>                      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.</p>	<p><b>ARTS 65 Graphic Design: UI/UX and the World Wide Web 4 Units</b>                      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.</p>
<p><b>ARTS 55A Graphic Design-Communication I 4 Units</b>                      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.</p>	<p><b>ARTS 55B Graphic Design-Communication II 4 Units</b>                      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.</p>	<p><b>ARTS 70 Viewing Bay Area Art Museums and Galleries 1 Unit</b>                      Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.                      Three hours laboratory (36 hours total per quarter).  <i>(This course is included in the Arts - Professional Practice Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>                      Designed to develop skills in art gallery/museum viewing and critical analysis of content of exhibits, collections and/or lectures.</p>
<p><b>ARTS 55C Graphic Design-Communication III: Production Techniques 4 Units</b>                      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.</p>	<p><b>ARTS 55C Graphic Design-Communication III: Production Techniques 4 Units</b>                      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.</p>	<p><b>ARTS 71 Gallery and Exhibition Design 4 Units</b>                      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).  <i>(This course is included in the Arts - Professional Practice Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>                      The practical experience in all aspects of exhibition design and installation of art exhibits in galleries and museums. Emphasis on design theory and the evaluation and analysis of the communicative, cultural, aesthetic, technical factors involved in the production of exhibits.</p>
<p><b>ARTS 56 Graphic Design: Page Layout for Digital Publishing 4 Units</b>                      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.</p>	<p><b>ARTS 56 Graphic Design: Page Layout for Digital Publishing 4 Units</b>                      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.</p>	<p><b>ARTS 72 Internship in Art 1 Unit</b>                      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).  <i>(This course is included in the Arts - Professional Practice Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>                      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).</p>
<p><b>ARTS 57 Graphic Design-Communication: Typography 4 Units</b>                      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.</p>	<p><b>ARTS 57 Graphic Design-Communication: Typography 4 Units</b>                      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.</p>	<p><b>ARTS 85 Graphic Design: Motion Graphics 4 Units</b>                      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.</p>
<p><b>ARTS 58A Furniture Design 4 Units</b>                      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).  <i>(This course is included in the Industrial Design Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>                      Beginning furniture design with emphasis on developing basic skills in design, construction and craftsmanship.</p>	<p><b>ARTS 58A Furniture Design 4 Units</b>                      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).  <i>(This course is included in the Industrial Design Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>                      Beginning furniture design with emphasis on developing basic skills in design, construction and craftsmanship.</p>	<p><b>ARTS 86 Graphic Design: Digital Illustration Techniques 4 Units</b>                      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.</p>
<p><b>ARTS 58B Intermediate Furniture Design 4 Units</b>                      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).  <i>(This course is included in the Industrial Design Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>                      Intermediate furniture design, with an emphasis on a broader range of skills in design, construction and craftsmanship.</p>	<p><b>ARTS 58B Intermediate Furniture Design 4 Units</b>                      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).  <i>(This course is included in the Industrial Design Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>                      Intermediate furniture design, with an emphasis on a broader range of skills in design, construction and craftsmanship.</p>	

## 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 (either course 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

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

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 AUTO 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.

### 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.

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**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 AUTO 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 51A and AUTO 51B. 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; AUTO 62A. 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 AUTO 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      Smog Inspector - Level 1 Training      7 Units**

*Corequisite: AUTO 65W. 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 Smog inspection program. Course content is mandated by the Bureau of Automotive Repair (BAR).*

**AUTO 65W      Smog Inspector - Level 2 Training      2 ½ Units**

*Corequisite: AUTO 65P. 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 Smog Inspection Program. Meets one of the Bureau of Automotive Repair (BAR) requirement for obtaining Smog Inspector 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.*

<b>AUTO 67G Gaseous Fuels 4 ½ Units</b> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.</i> <i>Four and one-half hours lecture (54 hours total per quarter).</i> Gaseous fuels include propane, compressed natural gas, liquefied natural gas and hydrogen. Propane has been used as an engine fuel for over 80-years. After gasoline and diesel, it is the third most popular fuel. It is used to power over four million vehicles. Compressed natural gas and liquefied natural gas are being used in many fleet applications and have a large pipeline distribution system. Hydrogen is used in a fuel cell to create electricity and expels water. Two major automobile manufacturers have introduced hydrogen powered cars. As a society we are moving towards having humans have less of an impact on our environment and the gaseous fuel are a big part of the movement.	<b>AUTO 93C Automatic Transmissions 6 Units</b> <i>Prerequisite: Approved Automotive Technology Course Sequence Contract.</i> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.</i> <i>Four hours lecture, six hours laboratory (120 hours total per quarter).</i> Operation of automatic transmissions including torque converters, hydraulic control, planetary gear train, clutch and band operation. Inspection and repair procedures for automatic transmissions.
<b>AUTO 67J Introduction to Automotive and Light Truck Diesel Systems 4 ½ Units</b> <i>(Formerly AUTO 64G.)</i> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A and AUTO 50B.</i> <i>Four and one-half hours lecture (54 hours total per quarter).</i> 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 and Jeep 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.	<b>AUTO 93D Automatic Transaxles 2 Units</b> <i>Prerequisite: Approved Automotive Technology Course Sequence Contract.</i> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.</i> <i>One and one-half hours lecture, one and one-half hours laboratory (36 hours total per quarter).</i> A detailed study of automatic transaxles. Power flow, service requirements and repair procedures will be covered.
<b>AUTO 69Y Smog Check Update 1 ½ Units</b> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; current CA Smog Check License.</i> <i>One and one-half hours lecture (18 hours total per quarter).</i> Legally mandated course by the California Bureau of Automotive Repair (BAR) to obtain a renewal Smog Check License every two years. This applies to all State Licensed Smog Check Technicians. The latest Smog Check Program changes and updates will be covered. The State Smog Check License renewal examination will be given at the end of the course.	<b>AUTO 93E Diagnostic Techniques 1 ½ Units</b> <i>Prerequisite: Approved Automotive Technology Course Sequence Contract.</i> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.</i> <i>One hour lecture, one and one-half hours laboratory (30 hours total per quarter).</i> Diagnostic techniques for problem solving in the automotive and light duty truck powertrain.
<b>AUTO 91A Automotive Brake Systems 6 Units</b> <i>Prerequisite: Approved Automotive Technology Course Sequence Contract.</i> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A and AUTO 50B.</i> <i>Four hours lecture, six hours laboratory (120 hours total per quarter).</i> Repair, maintenance and troubleshooting of automotive braking systems.	<b>AUTO 93F Automotive Transmission Service 6 Units</b> <i>Prerequisite: Approved Automotive Technology Course Sequence Contract.</i> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.</i> <i>Four hours lecture, six hours laboratory (120 hours total per quarter).</i> Operation of rear axles, transfer cases, clutches, automatic and standard transmissions and transaxles. Diagnostic, inspection and repair procedures for these powertrain components.
<b>AUTO 92A Automotive Steering and Suspension 6 Units</b> <i>Prerequisite: Approved Automotive Technology Course Sequence Contract.</i> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 51A and AUTO 51B.</i> <i>Four hours lecture, six hours laboratory (120 hours total per quarter).</i> Repair, maintenance and troubleshooting of suspension and steering systems.	<b>AUTO 94A Principles of Four Stroke Cycle Gas and Diesel Engines 6 Units</b> <i>Prerequisite: Approved Automotive Technology Course Sequence Contract.</i> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.</i> <i>Four hours lecture, six hours laboratory (120 hours total per quarter).</i> Shop operations specific to engine repair and rebuilding including safety and hazardous waste management. Emphasis on theory, diagnosis, disassembly, cleaning, inspection and failure analysis.
<b>AUTO 92B Automotive Alignment 6 Units</b> <i>Prerequisite: Approved Automotive Technology Course Sequence Contract.</i> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.</i> <i>Four hours lecture, six hours laboratory (120 hours total per quarter).</i> Automotive alignment systems, including repair, maintenance and troubleshooting. Service and repair procedures.	<b>AUTO 94B Automotive Machining and Engine Service 6 Units</b> <i>Prerequisite: Approved Automotive Technology Course Sequence Contract.</i> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.</i> <i>Four hours lecture, six hours laboratory (120 hours total per quarter).</i> Reconditioning cylinder heads and related valve train components including crack detection, repair, testing and assembly. Resurfacing cylinder heads.
<b>AUTO 92C Automotive Electronic Chassis Controls 2 Units</b> <i>Prerequisite: Approved Automotive Technology Course Sequence Contract.</i> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.</i> <i>One and one-half hours lecture, one and one-half hours laboratory (36 hours total per quarter).</i> Computer controlled automotive suspension and steering systems, including repair, maintenance, troubleshooting, and service procedures.	<b>AUTO 94C Automotive Machining and Engine Service 6 Units</b> <i>Prerequisite: AUTO 94A.</i> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.</i> <i>Four hours lecture, six hours laboratory (120 hours total per quarter).</i> Reconditioning engine short block assemblies and components including balancing, assembly and testing.
<b>AUTO 93A Automotive Final Drive Train 6 Units</b> <i>Prerequisite: Approved Automotive Technology Course Sequence Contract.</i> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.</i> <i>Four hours lecture, six hours laboratory (120 hours total per quarter).</i> Components of the final drive train including design features and service techniques.	<b>AUTO 94D Automotive Machining and Engine Service 6 Units</b> <i>Prerequisite: AUTO 94A.</i> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.</i> <i>Four hours lecture, six hours laboratory (120 hours total per quarter).</i> 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.
<b>AUTO 93B Standard Transaxles 2 Units</b> <i>Prerequisite: Approved Automotive Technology Course Sequence Contract.</i> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.</i> <i>One and one-half hours lecture, one and one-half hours laboratory (36 hours total per quarter).</i> Standard transaxles: power flow, service requirements and repair procedures.	<b>AUTO 94E Automotive Machining and Engine Service 6 Units</b> <i>Prerequisite: AUTO 94C.</i> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent.</i> <i>Four hours lecture, six hours laboratory (120 hours total per quarter).</i> Complete automotive machine shop practice including engine repair, assembly, testing and installation. Researching service and installation procedures and parts and labor estimating.

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<p><b>AUTO 94F</b>      <b>Automotive Machining and Engine Service</b>      <b>6 Units</b></p> <p><i>Prerequisite:</i> AUTO 94C.  <i>Advisory:</i> 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.</p>	<p><b>AUTO 350A</b>      <b>Introduction to Automotive Principles</b>      <b>0 Units</b></p> <p><i>(This is an enhanced, non-credit CTE course, which can lead to and only be applied to a non-transcriptable certificate offered directly from the Applied Technologies Division. Students will not be graded.)</i>  <i>Advisory:</i> 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).                      (No limit on repeatability for 0 unit courses.)                      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.</p>
<p><b>AUTO 99A</b>      <b>Automotive Electricity, Battery and Cranking Systems</b>      <b>7 Units</b></p> <p><i>Prerequisite:</i> Approved Automotive Technology Course Sequence Contract.  <i>Advisory:</i> 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.</p>	<p><b>AUTO 350B</b>      <b>Applied Automotive Principles</b>      <b>0 Units</b></p> <p><i>(This is an enhanced, non-credit CTE course, which can lead to and only be applied to a non-transcriptable certificate offered directly from the Applied Technologies Division. Students will not be graded.)</i>  <i>Advisory:</i> EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 350A (may be taken concurrently).                      One and one-half hours lecture, two and one-half hours laboratory (48 hours total per quarter).                      (No limit on repeatability for 0 unit courses.)                      Basic experiences in automotive repair and maintenance as related to the engine and its supporting systems.</p>
<p><b>AUTO 99B</b>      <b>Automotive Charging, Ignition and Accessory Systems</b>      <b>7 Units</b></p> <p><i>Prerequisite:</i> Approved Automotive Technology Course Sequence Contract.  <i>Advisory:</i> 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.</p>	<p><b>AUTO 351A</b>      <b>Introduction to Automotive Principles - Chassis Systems</b>      <b>0 Units</b></p> <p><i>(This is an enhanced, non-credit CTE course, which can lead to and only be applied to a non-transcriptable certificate offered directly from the Applied Technologies Division. Students will not be graded.)</i>  <i>Advisory:</i> 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).                      (No limit on repeatability for 0 unit courses.)                      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.</p>
<p><b>AUTO 99C</b>      <b>Introduction to Engine Performance Systems</b>      <b>7 Units</b></p> <p><i>Prerequisite:</i> AUTO 99A.  <i>Advisory:</i> 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.</p>	<p><b>AUTO 351B</b>      <b>Applications of Automotive Principles - Chassis Systems</b>      <b>0 Units</b></p> <p><i>(This is an enhanced, non-credit CTE course, which can lead to and only be applied to a non-transcriptable certificate offered directly from the Applied Technologies Division. Students will not be graded.)</i>  <i>Advisory:</i> EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 351A (may be taken concurrently).                      One and one-half hours lecture, two and one-half hours laboratory (48 hours total per quarter).                      (No limit on repeatability for 0 unit courses.)                      Basic experiences in automotive repair and maintenance as related to: suspension, steering, braking and drive line components.</p>
<p><b>AUTO 99D</b>      <b>Intermediate Engine Performance Systems</b>      <b>7 Units</b></p> <p><i>Prerequisite:</i> AUTO 99A.  <i>Advisory:</i> 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.</p>	<p><b>AUTO 360</b>      <b>Automotive Electrical Systems</b>      <b>0 Units</b></p> <p><i>(This is an enhanced, non-credit CTE course, which can lead to and only be applied to a non-transcriptable certificate offered directly from the Applied Technologies Division. Students will not be graded.)</i>  <i>Advisory:</i> EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 350A and AUTO 350B.                      Nine hours lecture (108 hours total per quarter).                      (No limit on repeatability for 0 unit courses.)                      Principles of electricity, electronics, cranking and charging systems. Testing, diagnosis and repair of these systems.</p>
<p><b>AUTO 99E</b>      <b>Basic Engine Performance Diagnostic Procedures</b>      <b>7 Units</b></p> <p><i>Prerequisite:</i> AUTO 99C.  <i>Advisory:</i> 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.</p>	<p><b>AUTO 361A</b>      <b>Automotive Brake Systems</b>      <b>0 Units</b></p> <p><i>(This is an enhanced, non-credit CTE course, which can lead to and only be applied to a non-transcriptable certificate offered directly from the Applied Technologies Division. Students will not be graded.)</i>  <i>Advisory:</i> EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 351A and AUTO 351B.                      Four and one-half hours lecture (54 hours total per quarter).                      (No limit on repeatability for 0 unit courses.)                      Operation of automotive brake systems. Repair, maintenance and troubleshooting.</p>
<p><b>AUTO 99F</b>      <b>Intermediate Engine Performance Diagnostic Procedures</b>      <b>7 Units</b></p> <p><i>Prerequisite:</i> AUTO 99C.  <i>Advisory:</i> 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.</p>	<p><b>AUTO 361B</b>      <b>Electronically Controlled Brake Systems</b>      <b>0 Units</b></p> <p><i>(This is an enhanced, non-credit CTE course, which can lead to and only be applied to a non-transcriptable certificate offered directly from the Applied Technologies Division. Students will not be graded.)</i>  <i>Advisory:</i> EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 361A .                      Four and one-half hours lecture (54 hours total per quarter).                      (No limit on repeatability for 0 unit courses.)                      Computer controlled automotive brake systems, including service, maintenance, troubleshooting and repair procedures.</p>

**AUTO 362A Automotive Suspension, Steering and Alignment 0 Units**  
*(This is an enhanced, non-credit CTE course, which can lead to and only be applied to a non-transcriptable certificate offered directly from the Applied Technologies Division. Students will not be graded.)*  
 Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 212 or equivalent; AUTO 351A and AUTO 351B.  
 Nine hours lecture (108 hours total per quarter).  
 (No limit on repeatability for 0 unit courses.)  
 Operation of automotive suspension, steering and alignment systems. Overview of maintenance, repair and troubleshooting procedures.

**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.

## 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 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 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 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 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 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 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 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 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 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. Study of cell chemistry, cell biology, histology and the integumentary, skeletal and muscular systems with emphasis on homeostatic mechanisms.

**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 40B Human Anatomy and Physiology 5 Units**  
 Prerequisite: BIOL 40A 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).  
 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 40B, 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).  
 Study of the endocrine system, lymphatic system, digestive system, metabolism, urinary, and reproductive systems.

**B**

**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 interdependencies 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: alkynes, 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.

## CHILD DEVELOPMENT

**CD 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.)

**CD 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.)

**CD 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 how ecology and socialization impact development, as well as 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.

(Applicable standards to this course: National Association for the Education of Young Children Standards; Standard 2 Building Family and Community Relationship, Standard 4 Using developmentally effective approaches, and Standard 5 Becoming a Professional; National Board for Professional Teaching Standards Early Childhood Generalist Standard 2 Equity, Fairness and Diversity, Standard 7 Family, Community Partnerships and Standard 9 Reflective Practice; Council for Exceptional Children/Division for Early Childhood Standard 9 Professional and Ethical Practice and Standard 10 Collaboration; California Early Childhood Competencies: Culture, Diversity & Equity, Family & Community Engagement, Professionalism.)

**CD 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.

(Applicable standards for this course: National Association Education Of Young Children (NAEYC) Standard 1. Promoting Child Development and Learning; 1a, 1b, and 1c; Standard 4 Using Developmentally Effective Approaches 4a, 4b, 4c and 4d; Standard 6 Becoming a Professional 6a, 6b, 6c, 6d and 6e; National Association Education of Young Children (NBPTS) Standard IV promoting Child Development and Learning; Standard IX Reflective Practice; Council for Exceptional (CEC)/Division for Early Childhood Special Education (DEC) Standard 3 Individual learning differences; Standard 5 Learning environments and social interactions; Standard 9 Professional and ethical practice.)

**CD 51A Basic Student Teaching Practicum 5 Units**

Prerequisite: CD 10G (or PSYC 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 the NAEYC Standards 1, 2, 3, 4, and 5; and NBPTS Standards 1 through 9.)

**CD 51B Advanced Student Teaching Practicum 5 Units**

Prerequisite: CD 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 the NAEYC Standards 1, 2, 3, 4, and 5; and NBPTS Standards 1 through 9.)

**CD 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 1a,1b,2a,2c,3a,3b,3c, 3d,6b,6c SS3, SS; NBPTS Standards 3 and 4; DEC Standard 8 Assessment; CA Early Childhood Educator Competency Focus 1: Observation, Screening, Assessment and Documentation; CAECE/Infant Family Early Childhood Mental Health Competencies Areas B and E.)

<p><b>CD 53 Creative Art for the Young Child 3 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours lecture (36 hours total per quarter).</i>            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.)</p>	<p><b>CD 59G Supervision and Administration of Child Development Programs (Management Systems) 4 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Four hours lecture (48 hours total per quarter).</i>            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 &amp; Supervision.)</p>
<p><b>CD 54 Curriculum for Early Childhood Programs 4 Units</b>  <i>Prerequisite: CD 10G or PSYC 10G (may be taken concurrently).</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Four hours lecture (48 hours total per quarter).</i>            Curriculum development with emphasis on planning curriculum that is emergent, developmentally and individually appropriate and inclusive for all young children through age six. 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.)</p>	<p><b>CD 59H Supervision and Administration of Child Development Programs (Leadership Skills) 4 Units</b>  <i>Prerequisite: A minimum of 12 units of Child Development course work, which includes CD 10G.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Four hours lecture (48 hours total per quarter).</i>            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.)</p>
<p><b>CD 55 Literacy Development and Activities for the Young Child 3 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours lecture (36 hours total per quarter).</i>            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.)</p>	<p><b>CD 60 Introduction to Children with Special Needs 3 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours lecture (36 hours total per quarter).</i>            Introduces the variations in development of children with special needs ages birth through eight and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to children with special needs, and the identification and referral process.</p>
<p><b>CD 56 Understanding and Working with English Learners 3 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours lecture (36 hours total per quarter).</i>            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 &amp; Characteristics of Learners; Standard 6: Language. California Early Child Educators Competencies: Culture, Diversity and Equity and Dual Language Development.</p>	<p><b>CD 61 Music and Movement (Developmental Foundations) 3 Units</b>  <i>(See general education pages for the requirement this course meets.)</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours lecture (36 hours total per quarter).</i>            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.)</p>
<p><b>CD 57 Self-Assessment for Teachers of Young Children Using Reflective Practice: Field Experience 5 Units</b>  <i>Prerequisite: CD 10G or PSYC 10G.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Two hours lecture, ten hours laboratory (144 hours total per quarter).</i>            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.)</p>	<p><b>CD 63 Math and Science Activities for the Young Child 3 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours lecture (36 hours total per quarter).</i>            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.)</p>
<p><b>CD 58 Infant/Toddler Development 5 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Five hours lecture (60 hours total per quarter).</i>            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 the 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.)</p>	<p><b>CD 64 Health, Safety, and Nutrition for the Young Child 4 Units</b>  <i>(See general education pages for the requirement this course meets.)</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Four hours lecture (48 hours total per quarter).</i>            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, National Association Education of Young Children (NAEYC) Standard 1. Promoting Child Development and Learning; 1a,1b and 1c and Standard 5. Using Content Knowledge to Build Meaningful Curriculum; 5a, 5b and 5c. National Board of Professional Teaching Standards (NBPTS) Standards 1, 3 and 4 and Council for Exceptional Children (CEC) Standards 1, 2 and 3.)</p>
<p><b>CD 58 Infant/Toddler Development 5 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Five hours lecture (60 hours total per quarter).</i>            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 the 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.)</p>	<p><b>CD 67 Supervision and Administration of Child Development Programs (Adult Supervision) 3 Units</b>  <i>Prerequisite: CD 10G, 12 and 54.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours lecture (36 hours total per quarter).</i>            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.</p>

<p><b>CD 68 Teaching in a Diverse Society 4 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Four hours lecture (48 hours total per quarter).</i>                      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. Includes a 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.)</p>	<p><b>CD 75 Social Emotional Development in Early Childhood 3 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours lecture (36 hours total per quarter).</i>                      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 National Association for the Education of Young Children (NAEYC) Standards 1a, 1b, 1c, 2b, 4a; Council for Exceptional Children/ Division for Early Childhood Standards CC2-K1; National Board for Professional Teaching 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.)</p>
<p><b>CD 69 Early Childhood Education Principles and Practices (Cross-Cultural Emphasis) 3 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours lecture (36 hours total per quarter).</i>                      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)</p>	<p><b>CD 77 Special Projects in Child Development ½ Unit</b>  <b>CD 77W 1 Unit</b>  <b>CD 77X 2 Units</b>  <b>CD 77Y 3 Units</b>  <i>Prerequisite: Consent of instructor and division dean.</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).</i>                      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 &amp; Ethical Practice; ECE Competencies Professionalism.)</p>
<p><b>CD 70 Seminar in Parenting the Preschool Child 1 Unit</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>One hour lecture (12 hours total per quarter).</i>  <i>Pass-No Pass (P-NP) course.</i>                      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.)</p>	<p><b>CD 80 Design, Program Development, and Daily Operation of Family Child Care 3 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours lecture (36 hours total per quarter).</i>                      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.)</p>
<p><b>CD 71 Constructive Guidance and Positive Discipline in Early Childhood 3 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours lecture (36 hours total per quarter).</i>                      Explores the principals and techniques that promote high self-esteem and positive behaviors in young children.                      (This course meets NAEYC Standards 1a, 1c, 2a, 2b, 2c, 3a, 3b, 4a, 4b, 4c, 4d, 5c, 6b, 6e, SS3, SS4, SS5; DEC/CEC Standards CC3-K3, EC3-S1, CC6-K3; NBPTS Standard 2; and EIA Reflective Practice 2, 3, 8, 9.)</p>	<p><b>CD 90 Facilitating Inclusion in Early Childhood Programs: Intervention Strategies 3 Units</b>  <i>Prerequisite: CD 10G (or PSYC 10G) and CD 60.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours lecture (36 hours total per quarter).</i>                      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.)</p>
<p><b>CD 72 Partnerships with Families in Early Childhood Education 3 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours lecture (36 hours total per quarter).</i>                      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.)</p>	<p><b>CD 101W Current Issues in Child Development 1 Unit</b>  <b>CD 101X 2 Units</b>  <b>CD 101Y 3 Units</b>  <b>CD 101Z 4 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).</i>                      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.</p>
<p><b>CD 73 Early Childhood Mental Health 3 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours lecture (36 hours total per quarter).</i>                      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.)</p>	<p><b>CD 102W Curriculum for Child Development Personnel 1 Unit</b>  <b>CD 102X 2 Units</b>  <b>CD 102Y 3 Units</b>  <b>CD 102Z 4 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).</i>                      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.</p>
<p><b>CD 74 Early Childhood Mental Health Seminar and Fieldwork 3 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Two hours lecture, three hours laboratory (60 hours total per quarter).</i>                      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.)</p>	

**CD 103W**      **Topics in Preschool Program Administration**      **1 Unit**

**CD 103X**      **2 Units**  
**CD 103Y**      **3 Units**  
**CD 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.

**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.

## COMMUNICATION STUDIES

**(The Communications Studies Department was formerly the Speech Communications Department.)**

**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 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 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 9**      **Argumentation: Analysis of Oral and Written Communication**      **5 Units**

*(Formerly SPCH 9.)*  
*(See general education pages for the requirement this course meets.)*  
*(Not open to students with credit in COMM 9H.)*  
*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 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 9H**      **Argumentation: Analysis of Oral and Written Communication - HONORS**      **5 Units**

*(See general education pages for the requirement this course meets.)*  
*(Not open to students with credit in COMM 9.)*  
*(Admission into this course requires consent of the Honors Program Coordinator.)*  
*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. As an honors course, students will be expected to complete additional assignments to gain deeper insight in argumentation and critical inquiry.

**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 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.

C	<b>COMM 15 Critical Decision-Making in Groups</b> 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.	<b>COMM 77W Special Individual Projects in Communication Studies</b> 1 Unit
	<b>COMM 15H Critical Decision-Making in Groups - HONORS</b> 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.	<b>COMM 77X</b> 2 Units <b>COMM 77Y</b> 3 Units <b>COMM 77Z</b> 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, research, presentation, facilitation, teaching assistant, and/or community service/civic engagement leadership projects in Communication Studies as determined in consultation with the instructor.
	<b>COMM 16 Interpersonal Communication</b> 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.	<b>COMM 78W Special Topics in Communication Studies</b> 1 Unit <b>COMM 78X</b> 2 Units <b>COMM 78Y</b> 3 Units <b>COMM 78Z</b> 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.
	<b>COMM 16H Interpersonal Communication - HONORS</b> 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.	
	<b>COMM 70 Effective Organizational Communication</b> 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.	
	<b>COMM 70H Effective Organizational Communication - HONORS</b> 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.	

## COMPUTER INFORMATION SYSTEMS

<b>CIS 2 Computers and the Internet in Society</b> 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.
<b>CIS 3 Business Information Systems</b> 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.
<b>CIS 4 Computer Literacy</b> 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.
<b>CIS 14A Visual Basic .NET Programming I</b> 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.
<b>CIS 14B Visual Basic .NET Programming II</b> 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.
<b>CIS 18A Introduction to Unix/Linux</b> 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.

<b>CIS 18B</b> <b>Advanced Unix/Linux</b> <b>4 ½ Units</b> <i>Prerequisite:</i> CIS 18A. <i>Advisory:</i> CIS 14A, 22A, 36A or 40. 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 egrep, find, sed, awk, file archiving, compression, and conversion, version control, makefile, basic shell scripts and installation of a Linux distribution.	<b>CIS 22CH</b> <b>Data Abstraction and Structures - HONORS</b> <b>4 ½ Units</b> <i>(Not open to students with credit in CIS 22C.)</i> <i>(Admission into this course requires consent of the Honors Program Coordinator.)</i> <i>Prerequisite:</i> CIS 22B, 22BH or 35A. <i>Advisory:</i> 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.
<b>CIS 18C</b> <b>Shell Programming</b> <b>4 ½ Units</b> <i>Prerequisite:</i> 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.	<b>CIS 26A</b> <b>C as a Second Programming Language</b> <b>4 ½ Units</b> <i>(This course is intended for students who are competent in another programming language.)</i> <i>Prerequisite:</i> 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.
<b>CIS 21JA</b> <b>Introduction to x86 Processor Assembly Language and Computer Architecture</b> <b>4 ½ Units</b> <i>Prerequisite:</i> 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.	<b>CIS 26B</b> <b>Advanced C Programming</b> <b>4 ½ Units</b> <i>Advisory:</i> 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.
<b>CIS 21JB</b> <b>Advanced x86 Processor Assembly Programming</b> <b>4 ½ Units</b> <i>Prerequisite:</i> CIS 21JA. <i>Advisory:</i> 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.	<b>CIS 27</b> <b>Programming in C++ for C/Java Programmers</b> <b>4 ½ Units</b> <i>(Students may receive credit for either (CIS 22A and CIS 22B/22BH) or CIS 27, but not both.)</i> <i>Advisory:</i> EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 26A or CIS 35A. 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.
<b>CIS 22A</b> <b>Beginning Programming Methodologies in C++</b> <b>4 ½ Units</b> <i>(Students may receive credit for either (CIS 22A and CIS 22B/22BH) or CIS 27.)</i> <i>Advisory:</i> 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.	<b>CIS 28</b> <b>Object Oriented Analysis and Design</b> <b>4 ½ Units</b> <i>Advisory:</i> CIS 22B, 22BH, 27, 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.
<b>CIS 22B</b> <b>Intermediate Programming Methodologies in C++</b> <b>4 ½ Units</b> <i>(Not open to students with credit in CIS 22B.)</i> <i>(Students may receive credit for either (CIS 22A and CIS 22B/22BH) or CIS 27.)</i> <i>Prerequisite:</i> 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.	<b>CIS 29</b> <b>Advanced C++ Programming</b> <b>4 ½ Units</b> <i>Prerequisite:</i> (CIS 22B or CIS 22BH) or CIS 27 or equivalent. <i>Advisory:</i> 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.
<b>CIS 22BH</b> <b>Intermediate Programming Methodologies in C++ - HONORS</b> <b>4 ½ Units</b> <i>(Not open to students with credit in CIS 22B.)</i> <i>(Admission into this course requires consent of the Honors Program Coordinator.)</i> <i>(Students may receive credit for (CIS 22A and CIS 22B/22BH) or CIS 27.)</i> <i>Prerequisite:</i> 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.	<b>CIS 30A</b> <b>Introduction to C# Programming</b> <b>4 ½ Units</b> <i>Advisory:</i> 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.
<b>CIS 22C</b> <b>Data Abstraction and Structures</b> <b>4 ½ Units</b> <i>(Not open to students with credit in CIS 22CH.)</i> <i>Prerequisite:</i> CIS 22B, 22BH or 35A. <i>Advisory:</i> 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.	<b>CIS 30B</b> <b>Advanced C# Programming</b> <b>4 ½ Units</b> <i>Prerequisite:</i> 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.
<b>CIS 31</b> <b>Operating System Concepts</b> <b>5 Units</b> <i>Advisory:</i> 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.	<b>CIS 31</b> <b>Operating System Concepts</b> <b>5 Units</b> <i>Advisory:</i> 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.

<b>C</b>	<p><b>CIS 33A Programming in Perl 4 ½ Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 22B or CIS 26A.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      A complete coverage of the core Perl language. Topics covered will include: basic loops and control structures, the elemental data types and operators, subroutines and variable scoping, regular expressions and text parsing, manipulation of files, advanced list processing with grep and map, references, built-in functions and core modules, and advanced input/output including random-access files and formatting.</p> <p><b>CIS 33B Advanced Perl Programming 4 ½ Units</b>  <i>Advisory: CIS 33A.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      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.</p> <p><b>CIS 35A Java Programming 4 ½ Units</b>  <i>(Students may receive credit for either (CIS 36A and 36B) or 35A, but not both.)</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 22B, 22BH, 26A or 27.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      Introduction to Java programming, computing context, primitive types, flow of control constructs, operators, file I/O, objects and classes, inheritance, interfaces, packages, data structures and exceptions.</p> <p><b>CIS 35B Advanced Java Programming 4 ½ Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 35A.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      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, Java FX, Web Programming with Java Server Pages, Servlets, JavaServer Faces and JavaBeans.</p> <p><b>CIS 36A Introduction to Computer Programming Using Java 4 ½ Units</b>  <i>(Formerly CIS 61A.)</i>  <i>(Students may receive credit for either (CIS 36A and 36B) or CIS 35A, but not both.)</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 114 or equivalent.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      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.</p> <p><b>CIS 36B Intermediate Problem Solving in Java 4 ½ Units</b>  <i>(Formerly CIS 61B.)</i>  <i>(Students may receive credit for either CIS 36A and 36B, or CIS 35A, but not both.)</i>  <i>Prerequisite: CIS 36A.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      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.</p> <p><b>CIS 40 Introduction to Programming in Python 4 ½ Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 114 or equivalent.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      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.</p> <p><b>CIS 41A Python Programming 4 ½ Units</b>  <i>Prerequisite: CIS 22A or 36A or 40.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      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</p>	<p><b>CIS 41B Advanced Python Programming 4 ½ Units</b>  <i>Prerequisite: CIS 41A.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      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.</p> <p><b>CIS 50 Introduction to Computers, Data Processing, and Applications 3 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours lecture (36 hours total per quarter).</i>                      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.</p> <p><b>CIS 53 Java for Mobile Development 4 ½ Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 35A.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      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.</p> <p><b>CIS 55 iOS Development 4 ½ Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 22A or CIS 36A.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      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.</p> <p><b>CIS 56 Network Security 4 ½ Units</b>  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; CIS 108.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      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.</p> <p><b>CIS 57 Web Site Administration 4 ½ Units</b>  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; CIS 66 and 89A.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      Introduction to establishing, configuring, managing and controlling access to Internet servers.</p> <p><b>CIS 63 Systems Design 4 ½ Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      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.</p> <p><b>CIS 64A Database Management Systems 4 ½ Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 22B.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      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.</p> <p><b>CIS 64B Introduction to SQL 4 ½ Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 64A.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      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.</p>
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<p><b>CIS 64C</b>      <b>Introduction to PL/SQL</b>      <b>4 ½ Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 64B.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      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.</p>	<p><b>CIS 75B</b>      <b>Internet Programming with TCP/IP</b>      <b>4 ½ Units</b>  <i>Prerequisite: CIS 26B.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 75A.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      Writing client/server applications using the TCP/IP protocol suite. All server classes - "well known", iterative, concurrent, and polling - will be explored and used. Typical Internet programming problems will be addressed including resource availability, machine addressing, and differences in data representation between communicating computers.</p>
<p><b>CIS 64D</b>      <b>Database Tuning</b>      <b>3 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 64C.</i>  <i>Three hours lecture (36 hours total per quarter).</i>                      Emphasis on importance of Performance Tuning, techniques for tuning several Oracle components, optimizing database for high volume transactions and Data Warehouses.</p>	<p><b>CIS 75D</b>      <b>Enterprise Security Policy Management</b>      <b>3 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 75A or equivalent experience.</i>  <i>Two hours lecture, three hours laboratory (60 hours total per quarter).</i>                      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.</p>
<p><b>CIS 64E</b>      <b>Introduction to Large Scale Processing Systems</b>      <b>4 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Four hours lecture (48 hours total per quarter).</i>                      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.</p>	<p><b>CIS 75E</b>      <b>Enterprise Emergency Response Planning</b>      <b>2 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Two hours lecture (24 hours total per quarter).</i>                      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.</p>
<p><b>CIS 64F</b>      <b>Introduction to Big Data and Analytics</b>      <b>4 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Four hours lecture (48 hours total per quarter).</i>                      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.</p>	<p><b>CIS 77</b>      <b>Special Projects in Computer Information Systems</b>      <b>1 Unit</b></p> <p><b>CIS 77X</b>      <b>2 Units</b>  <b>CIS 77Y</b>      <b>3 Units</b>  <i>Prerequisite: Consent of instructor and division dean.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter). (Hours to be individually arranged.)</i>                      Design, implement, and document a special computer programming project.</p>
<p><b>CIS 66</b>      <b>Introduction to Data Communication and Networking</b>      <b>5 Units</b>  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; CIS 3 or CIS 50.</i>  <i>Five hours lecture (60 hours total per quarter).</i>                      Concepts of communication, data communications and networks. Overview of connectivity options, common protocols, local and wide area networks.</p>	<p><b>CIS 79</b>      <b>Managing Technology Projects</b>      <b>4 ½ Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      Introduction to the theory and practice of the design and management of technology projects, including planning, performing, and monitoring of projects. Subjects explored are estimating costs and schedules, analyzing client expectations, guiding diverse groups of people toward a common goal, while earning a profit. Use of common software packages for project management.</p>
<p><b>CIS 67A</b>      <b>Local Area Networks</b>      <b>4 Units</b>  <i>Advisory: CIS 66.</i>  <i>Four hours lecture (48 hours total per quarter).</i>                      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.</p>	<p><b>CIS 80A</b>      <b>Process Management</b>      <b>3 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours lecture (36 hours total per quarter).</i>                      Learn the basics of process mapping in examining work flow and relationships to improve the efficiency of an organization, improve communication and understanding, and find ways to optimize a process.</p>
<p><b>CIS 67B</b>      <b>Introduction to Wide Area Networking</b>      <b>4 Units</b>  <i>Advisory: CIS 67A.</i>  <i>Four hours lecture (48 hours total per quarter).</i>                      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.</p>	<p><b>CIS 82W</b>      <b>Current Topics in Computer Information Systems</b>      <b>1 Unit</b></p> <p><b>CIS 82X</b>      <b>2 Units</b>  <b>CIS 82Y</b>      <b>3 Units</b>  <b>CIS 82Z</b>      <b>4 Units</b>  <i>Credit course - Does not apply to De Anza Associate degree.</i>  <i>Requisite/Advisory: None.</i>  <i>One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).</i>                      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.</p>
<p><b>CIS 73</b>      <b>Unix/Linux Systems Programming</b>      <b>4 ½ Units</b>  <i>Prerequisite: CIS 18A and CIS 26B.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      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.</p>	<p><b>CIS 83</b>      <b>Open Computer Information Systems Laboratory</b>      <b>½ Unit</b>  <i>Corequisite: CIS 82W, 82X, 82Y or 82Z.</i>  <i>One and one-half hours laboratory (18 hours total per quarter).</i>  <i>Pass-No Pass (P-NP) course.</i>                      Use of the computer laboratory facilities in conjunction with a computer information systems programming course.</p>
<p><b>CIS 74</b>      <b>Software Quality Assurance</b>      <b>4 ½ Units</b>  <i>Advisory: CIS 40 and CIS 89A.</i>  <i>Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).</i>                      Software testing basics, Äi equivalence classes, boundary values, edge cases, corner cases, positive vs. negative tests, verification vs. validation, black-box testing, white-box testing, gray-box testing, smoke testing, alpha vs. beta testing, requirements documents and traceability matrices; justification for testing software; types of testing, Äi accessibility, functional, security, performance, visual; breaking software and defect reporting; test-driven development; test case management (TCM) tools; and automating tests for web applications.</p>	<p><b>CIS 89A</b>      <b>Web Page Development</b>      <b>3 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; CIS 18A.</i>  <i>Two hours lecture, three hours laboratory (60 hours total per quarter).</i>                      Fundamentals of Web page design and creation: designing, encoding, and maintaining pages on the World Wide Web using HTML and CSS.</p>
<p><b>CIS 75A</b>      <b>Internet Concepts and TCP/IP Protocols</b>      <b>5 Units</b>  <i>Prerequisite: CIS 66.</i>  <i>Advisory: CIS 22A, 26A, 36A or 40; EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Five hours lecture (60 hours total per quarter).</i>                      The architecture and underlying protocols of the Internet. The Internet will be examined as a layered product. Layers discussed will include mid-level packet delivery and address computation and high-level client/server applications using the TCP/IP Protocol Suite.</p>	

All courses are for unit credit and apply to a De Anza associate degree unless otherwise noted.

**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. 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 105 Cloud Security Fundamentals 4 ½ Units**  
*Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; CIS 56.*

*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*

An exploration of how to secure a cloud environment. The history of cloud computing and how cloud computing is being used today will be learned. Various cloud environments such as Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS) and understand both native and hybrid environments will also be explored. Topics including network security, host security, Identity and Access Management (IAM), cryptography and data protection, access controls, patch management, as well as credential and key management will be examined. Cloud security operations including logging, incident response in the cloud, as well as preventative and self-correcting security controls using labs exercises will be investigated. This hands-on course is designed to prepare students for modern day infrastructure environments.

**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

<b>COUN 5</b>	<b>Introduction to College</b>	<b>1 Unit</b>
<i>(Formerly COUN 50.)</i>		
<i>Advisory: Counseling Division orientation workshop.</i>		
<i>One hour lecture (12 hours total per quarter).</i>		
<i>Pass-No Pass (P-NP) course.</i>		
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.		
<b>COUN 80X</b>	<b>Special Topics in Counseling</b>	<b>1 Unit</b>
<b>COUN 80Y</b>		<b>2 Units</b>
<b>COUN 80Z</b>		<b>3 Units</b>
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).</i>		
Selected counseling topics with a focus on academic and personal development.		

## DANCE

<b>DANC 22</b>	<b>Body Awareness and Conditioning for Dancers</b>	<b>1 Unit</b>
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>		
<i>Three hours laboratory (36 hours total per quarter).</i>		
<i>(This course is included in the Ballet and Conditioning Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
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.		
<b>DANC 22K</b>	<b>Theory and Technique of Ballet I</b>	<b>1 Unit</b>
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Three hours laboratory (36 hours total per quarter).</i>		
<i>(This course is included in the Ballet and Conditioning Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
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.		
<b>DANC 22L</b>	<b>Theory and Technique of Ballet II</b>	<b>1 Unit</b>
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: DANC 22K.</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Three hours laboratory (36 hours total per quarter).</i>		
<i>(This course is included in the Ballet and Conditioning Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
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.		
<b>DANC 22M</b>	<b>Theory and Technique of Ballet III</b>	<b>1 Unit</b>
<i>(Formerly DANC 52M.)</i>		
<i>(See general education pages for the requirements this course meets.)</i>		
<i>Prerequisite: DANC 22L.</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Three hours laboratory (36 hours total per quarter).</i>		
<i>(This course is included in the Ballet and Conditioning Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
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.		
<b>DANC 23A</b>	<b>Theory and Technique of Contemporary (Modern) Dance I</b>	<b>1 Unit</b>
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Three hours laboratory (36 hours total per quarter).</i>		
<i>(This course is included in the Dance Technique Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
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.).		

<b>DANC 23B</b>	<b>Theory and Technique of Contemporary (Modern) Dance II</b>	<b>1 Unit</b>
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: DANC 23A.</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Three hours laboratory (36 hours total per quarter).</i>		
<i>(This course is included in the Dance Technique Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
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.).		
<b>DANC 23C</b>	<b>Theory and Technique of Contemporary (Modern) Dance III</b>	<b>1 Unit</b>
<i>(Formerly DANC 53C.)</i>		
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: DANC 23B.</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Three hours laboratory (36 hours total per quarter).</i>		
<i>(This course is included in the Dance Technique Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
The discipline and creative art of contemporary dance focusing on practice, theory, technique, and movement explorations in time and space, developing a working advanced dance vocabulary in three contemporary dance techniques (i.e. Limon, Graham, Dunham).		
<b>DANC 23L</b>	<b>Theory and Technique of Hip-Hop I (Popular American Dance)</b>	<b>1 Unit</b>
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Three hours laboratory (36 hours total per quarter).</i>		
<i>(This course is included in the Social/Cultural Dance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
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.		
<b>DANC 23M</b>	<b>Theory and Technique of Hip-Hop II (Popular American Dance II)</b>	<b>1 Unit</b>
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: DANC 23L.</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Three hours laboratory (36 hours total per quarter).</i>		
<i>(This course is included in the Social/Cultural Dance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
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.		
<b>DANC 23N</b>	<b>Theory and Technique of Hip-Hop III (Popular American Dance III)</b>	<b>1 Unit</b>
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: DANC 23M.</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Three hours laboratory (36 hours total per quarter).</i>		
<i>(This course is included in the Social/Cultural Dance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
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.		
<b>DANC 24A</b>	<b>Theory and Technique of Social Dance I</b>	<b>1 Unit</b>
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Three hours laboratory (36 hours total per quarter).</i>		
<i>(This course is included in the Social/Cultural Dance Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
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.		

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**D 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 Intermediate 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 Advanced 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 advanced 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.

## 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.

<b>DMT 54</b>	<b>3D Printing/Additive Manufacturing: Theory and Practice</b>	<b>4 Units</b>	<b>DMT 70A</b>	<b>Introduction to Computer Aided Design Using AutoCAD</b>	<b>4 Units</b>
<i>Prerequisite: DMT 53.</i> <i>Four hours lecture (48 hours total per quarter).</i> A focus on design considerations and rapid prototyping applications of Additive Manufacturing (AM), commonly known as 3D Printing. Using a combination of lecture and hands-on projects, students will explore the design and material considerations within AM and will configure AM systems and build prototypes and functional parts. Guest lecturers from the AM industry will provide key insights and best practices across a wide array of AM technologies. Students are expected to have a fundamental understanding of at least one parametric modeling CAD system to produce functional designs.			<i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.</i> <i>Two hours lecture, six hours laboratory (96 hours total per quarter).</i> Introduction-level computer-aided design and drafting using AutoCAD software. Emphasis on 2D drawings and dimensioning.		
<b>DMT 55</b>	<b>Survey of Design and Manufacturing Processes/Modern Fabrication</b>	<b>4 Units</b>	<b>DMT 70B</b>	<b>Introduction to Computer Aided Design Using AutoCAD</b>	<b>4 Units</b>
<i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i> <i>Four hours lecture (48 hours total per quarter).</i> 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.			<i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.</i> <i>Two hours lecture, six hours laboratory (96 hours total per quarter).</i> Introduction-level computer-aided design and drafting using AutoCAD software. Emphasis on 2D drawings and dimensioning.		
<b>DMT 60A</b>	<b>SolidWorks (Beginning)</b>	<b>4 Units</b>	<b>DMT 70C</b>	<b>Introduction to Computer Aided Design Using AutoCAD</b>	<b>4 Units</b>
<i>(Formerly CDI 60.)</i> <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i> <i>Two hours lecture, six hours laboratory (96 hours total per quarter).</i> Fundamentals of computer-aided design and drafting using SolidWorks software. Application of SolidWorks in creating manufacturing models (parts, assemblies and drawings).			<i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.</i> <i>Two hours lecture, six hours laboratory (96 hours total per quarter).</i> Introduction-level computer-aided design and drafting using AutoCAD software. Emphasis on 2D drawings and dimensioning.		
<b>DMT 61A</b>	<b>SolidWorks (Intermediate)</b>	<b>4 Units</b>	<b>DMT 70E</b>	<b>Introduction to Computer Aided Design Using AutoCAD</b>	<b>4 Units</b>
<i>(Formerly CDI 61.)</i> <i>Prerequisite: Any DMT 60A-E course.</i> <i>Two hours lecture, six hours laboratory (96 hours total per quarter).</i> 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.			<i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.</i> <i>Two hours lecture, six hours laboratory (96 hours total per quarter).</i> Introduction-level computer-aided design and drafting using AutoCAD software. Emphasis on 2D drawings and dimensioning.		
<b>DMT 62A</b>	<b>SolidWorks: Top-Down Design and Advanced System Tools</b>	<b>4 Units</b>	<b>DMT 73A</b>	<b>Introduction to Computer Aided Design Using Autodesk Inventor</b>	<b>4 Units</b>
<i>Prerequisite: Any DMT 61A-E course.</i> <i>Two hours lecture, six hours laboratory (96 hours total per quarter).</i> 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.			<i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.</i> <i>Two hours lecture, six hours laboratory (96 hours total per quarter).</i> Introduction-level computer-aided design and drafting using AutoDesk Inventor software. Application of AutoDesk Inventor in creating manufacturing models (parts, assemblies and drawings).		
<b>DMT 63A</b>	<b>SolidWorks: Surface Modeling</b>	<b>4 Units</b>	<b>DMT 75A</b>	<b>Introduction to Computer Aided Design Using Siemens NX</b>	<b>4 Units</b>
<i>Prerequisite: Any DMT 60A-E course.</i> <i>Two hours lecture, six hours laboratory (96 hours total per quarter).</i> 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.			<i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.</i> <i>Two hours lecture, six hours laboratory (96 hours total per quarter).</i> Introduction-level application of Siemens NX in manufacturing models. This course covers solid modeling, assemblies and drawings.		
<b>DMT 65A</b>	<b>Creo Parametric (Beginning)</b>	<b>4 Units</b>	<b>DMT 77A</b>	<b>Special Projects In Manufacturing and CNC/Mastercam Certification Level 1</b>	<b>2 Units</b>
<i>(Formerly CDI 70.)</i> <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i> <i>Two hours lecture, six hours laboratory (96 hours total per quarter).</i> Fundamentals of computer-aided design using Creo Parametric. Application of Creo Parametric software in creating manufacturing models (parts, assemblies, and drawings).			<i>(Formerly MCNC 80A.)</i> <i>Prerequisite: Consent of instructor and division dean.</i> <i>Six hours laboratory (72 hours total per quarter).</i> Projects advancing student's knowledge and experience in computer numerical control machining using Mastercam CAD/CAM software, a selected area of Design and Manufacturing 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.		
<b>DMT 66A</b>	<b>Creo Parametric (Intermediate)</b>	<b>4 Units</b>	<b>DMT 77B</b>	<b>Special Projects In Manufacturing and CNC/Mastercam Certification Level 2</b>	<b>2 Units</b>
<i>(Formerly CDI 71.)</i> <i>Prerequisite: Any DMT 65A-E course.</i> <i>Two hours lecture, six hours laboratory (96 hours total per quarter).</i> 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.			<i>(Formerly MCNC 80B.)</i> <i>Prerequisite: Consent of instructor and division dean.</i> <i>Six hours laboratory (72 hours total per quarter).</i> Projects advancing student's knowledge and experience in computer numerical control machining using Mastercam CAD/CAM software, a selected area of Design and Manufacturing Technologies. 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.		
<b>DMT 67A</b>	<b>Creo Parametric: Top-Down Design and Advanced System Tools</b>	<b>4 Units</b>			
<i>Prerequisite: Any DMT 65A-E course.</i> <i>Two hours lecture, six hours laboratory (96 hours total per quarter).</i> 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).					

<b>D</b>	<p><b>DMT 77C</b>      <b>Special Projects In Manufacturing and CNC/Mastercam Certification Level 3</b>      <b>2 Units</b></p> <p><i>(Formerly MCNC 80C.)</i>  <i>Prerequisite: Consent of instructor and division dean.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>                      Projects advancing student's knowledge and experience in computer numerical control machining using Mastercam CAD/CAM software, a selected area of Design and Manufacturing Technologies. Project type and design will be determined through consultation with the instructor based on Multiaxis 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.</p>	<p><b>DMT 80</b>      <b>Introduction to Machining and CNC Processes</b>      <b>5 Units</b></p> <p><i>(Formerly MCNC 71.)</i>  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.</i>  <i>Three hours lecture, six hours laboratory (108 hours total per quarter).</i>                      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.</p>
	<p><b>DMT 77D</b>      <b>Special Projects In Manufacturing and CNC/NIMS Level 1</b>      <b>2 Units</b></p> <p><i>(Formerly MCNC 80D.)</i>  <i>Prerequisite: Consent of instructor and division dean.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>                      Projects advancing student's knowledge and experience in computer numerical control and conventional machining, selected areas of Design and Manufacturing Technologies. 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.</p>	<p><b>DMT 82</b>      <b>Machining Practices Using Conventional Machine Tools, Tool Design, Abrasive Machining</b>      <b>5 Units</b></p> <p><i>(Formerly MCNC 77.)</i>  <i>Prerequisite: DMT 80 with a grade of C or better or equivalent.</i>  <i>Three hours lecture, six hours laboratory (108 hours total per quarter).</i>                      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.</p>
	<p><b>DMT 77E</b>      <b>Special Projects In Manufacturing and CNC/NIMS Level 2</b>      <b>2 Units</b></p> <p><i>(Formerly MCNC 80E.)</i>  <i>Prerequisite: Consent of instructor and division dean.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>                      Projects advancing student's knowledge and experience in computer numerical control and conventional machining, selected areas of Design and Manufacturing Technologies. 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.</p>	<p><b>DMT 84A</b>      <b>Introduction to Computer-Aided Numerical Control (CNC) Programming and Operation; Mills</b>      <b>5 Units</b></p> <p><i>(Formerly MCNC 75A.)</i>  <i>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.</i>  <i>Three hours lecture, six hours laboratory (108 hours total per quarter).</i>                      Introduction to mill tool path programming using G&amp;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.</p>
	<p><b>DMT 77F</b>      <b>Special Projects In Manufacturing and CNC/NIMS Level 3</b>      <b>2 Units</b></p> <p><i>(Formerly MCNC 80F.)</i>  <i>Prerequisite: Consent of instructor and division dean.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>                      Projects advancing student's knowledge and experience in computer numerical control, a selected area of Design and Manufacturing Technologies. 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.</p>	<p><b>DMT 84B</b>      <b>Computer-Aided Numerical Control (CNC) Programming and Operation; Lathe Introduction, Advanced Mills</b>      <b>5 Units</b></p> <p><i>(Formerly MCNC 75B.)</i>  <i>Prerequisite: DMT 84A or equivalent with a grade of C or better.</i>  <i>Three hours lecture, six hours laboratory (108 hours total per quarter).</i>                      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.</p>
	<p><b>DMT 77G</b>      <b>Special Projects in 3D Printing/ Additive Manufacturing</b>      <b>2 Units</b></p> <p><i>Prerequisite: Consent of instructor and division dean.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>                      Projects advancing students' knowledge and experience in a selected area of Additive Manufacturing/3D Printing. Project type and design will be determined through consultation with the instructor based on FDM or PolyJet Process.</p>	<p><b>DMT 84C</b>      <b>CNC Lathes-Horizontal Mill-4th Axis Rotary-Programming Operations</b>      <b>5 Units</b></p> <p><i>(Formerly MCNC 75C.)</i>  <i>Prerequisite: DMT 84A or equivalent work experience.</i>  <i>Three hours lecture, six hours laboratory (108 hours total per quarter).</i>                      CNC lathe tool path programming using G&amp;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.</p>
	<p><b>DMT 77H</b>      <b>Special Projects for Additive Manufacturing in the Digital Factories</b>      <b>2 Units</b></p> <p><i>Prerequisite: Consent of instructor and division dean.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>                      Projects advancing students' knowledge and experience in a selected area of Additive Manufacturing in the Digital Factories. Project type and design will be determined through consultation with the instructor based on FDM, FFF or PolyJet Process.</p>	<p><b>DMT 87D</b>      <b>CAD/CAM Based Computer Numerical Control Programming Using Mastercam</b>      <b>5 Units</b></p> <p><i>(Formerly MCNC 76D.)</i>  <i>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.</i>  <i>Three hours lecture, six hours laboratory (108 hours total per quarter).</i>                      Introduction to Mastercam three axis mill programming. Create part geometry, define tools and tool paths, using post-processors to produce word-address format programs.</p>
	<p><b>DMT 77J</b>      <b>Special Projects in Additive Manufacturing for Rapid Prototyping</b>      <b>2 Units</b></p> <p><i>Prerequisite: Consent of instructor and division dean.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>                      Projects advancing students' knowledge and experience in a selected area of Additive Manufacturing for Rapid Prototyping. Project type and design will be determined through consultation with the instructor based on Fused Deposition Modeling FDM or Fused filament fabrication FFF, Material Jetting, Stereolithography.</p>	<p><b>DMT 87J</b>      <b>CAD/CAM Based CNC Surface Contouring Programming Using Mastercam</b>      <b>5 Units</b></p> <p><i>(Formerly MCNC 76J.)</i>  <i>Prerequisite: Any DMT 87A-E course.</i>  <i>Three hours lecture, six hours laboratory (108 hours total per quarter).</i>                      CAD/CAM 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 verification of completed programs.</p>
	<p><b>DMT 77X</b>      <b>Special Projects in CAD</b>      <b>1 Unit</b>  <b>DMT 77Y</b>      <b>3 Units</b>  <b>DMT 77Z</b>      <b>3 Units</b></p> <p><i>(Formerly CDI 56, 56X and 56Y respectively.)</i>  <i>Prerequisite: Consent of instructor and division dean.</i>  <i>Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).</i>                      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.</p>	<p><b>DMT 87N</b>      <b>CAD/CAM Based CNC 4 and 5 Axis Mill/Lathe Programming Using Mastercam</b>      <b>5 Units</b></p> <p><i>(Formerly MCNC 76N.)</i>  <i>Prerequisite: Any DMT 87A-E course.</i>  <i>Three hours lecture, six hours laboratory (108 hours total per quarter).</i>                      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.</p>

<b>DMT 89A</b>	<b>CAM Based CNC Multi-Axis Programming Using NX</b>	<b>5 Units</b>	<b>DMT 103</b>	<b>CAD Technology Laboratory Creo Parametric (Intermediate)</b>	<b>2 Units</b>
<p>(Formerly MCNC 78A.)  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.</i>  <i>Three hours lecture, six hours laboratory (108 hours total per quarter).</i>            NX is an advanced 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.</p>			<p>(Formerly CDI 103Z.)  <i>Requisite/Advisory: None.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>  <i>Pass-No Pass (P-NP) course.</i>            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.</p>		
<b>DMT 90</b>	<b>Print Reading and Machine Shop Calculations</b>	<b>4 ½ Units</b>	<b>DMT 104</b>	<b>CAD Technology Laboratory SolidWorks (Intermediate)</b>	<b>2 Units</b>
<p>(Formerly MCNC 60.)  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.</i>  <i>Four and one-half hours lecture (54 hours total per quarter).</i>            Interpretation of multi-view engineering blueprints, visualization techniques, auxiliary and section views. Appraisal of revision columns, title blocks and bill of materials. Introduction to geometric dimensioning and tolerancing (GD&amp;T) using ANSI and ISO standards. Review of calculations used to solve common problems found in print interpretation and inspection.</p>			<p>(Formerly CDI 104Z.)  <i>Requisite/Advisory: None.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>  <i>Pass-No Pass (P-NP) course.</i>            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.</p>		
<b>DMT 91</b>	<b>Dimensional Metrology</b>	<b>4 ½ Units</b>	<b>DMT 105</b>	<b>CAD Technology Laboratory Creo Parametric (Advanced)</b>	<b>2 Units</b>
<p><i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.</i>  <i>Four and one-half hours lecture (54 hours total per quarter).</i>            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)</p>			<p>(Formerly CDI 105Z.)  <i>Requisite/Advisory: None.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>  <i>Pass-No Pass (P-NP) course.</i>            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.</p>		
<b>DMT 92</b>	<b>Applied Geometric Inspection Dimensioning and Tolerancing (ASME Y14.5m); Coordinate Measuring Machines (CMM)</b>	<b>4 Units</b>	<b>DMT 106</b>	<b>CAD Technology Laboratory SolidWorks (Advanced)</b>	<b>2 Units</b>
<p>(Formerly MCNC 72.)  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent; experience in blueprint reading.</i>  <i>Three hours lecture, three hours laboratory (72 hours total per quarter).</i>            Interpretation of specifications and inspection procedures related to current ASME Y14.5 Geometric Dimensioning and Tolerancing (GD&amp;T) standards. Applications and capabilities of precision measuring tools, including the computer-aided Coordinate Measuring Machine (CMM), used in manufacturing environments to inspect discrete complex parts. Machine and inspected part set-up for measuring form, orientation, and position call outs.</p>			<p>(Formerly CDI 106Z.)  <i>Requisite/Advisory: None.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>  <i>Pass-No Pass (P-NP) course.</i>            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.</p>		
<b>DMT 93</b>	<b>Introduction to Quality Assurance</b>	<b>4 Units</b>	<b>DMT 107</b>	<b>CAD Technology Laboratory Creo Parametric (Surfaces)</b>	<b>2 Units</b>
<p><i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.</i>  <i>Four hours lecture (48 hours total per quarter).</i>            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.</p>			<p>(Formerly CDI 107Z.)  <i>Requisite/Advisory: None.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>  <i>Pass-No Pass (P-NP) course.</i>            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.</p>		
<b>DMT 95</b>	<b>Manufacturing Materials and Processes</b>	<b>4 Units</b>	<b>DMT 108</b>	<b>CAD Technology Laboratory SolidWorks (Surfaces)</b>	<b>2 Units</b>
<p>(Formerly MCNC 64.)  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>  <i>Three hours lecture, three hours laboratory (72 hours total per quarter).</i>            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.</p>			<p>(Formerly CDI 108Z.)  <i>Requisite/Advisory: None.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>  <i>Pass-No Pass (P-NP) course.</i>            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.</p>		
<b>DMT 101</b>	<b>CAD Technology Laboratory Creo Parametric (Beginning)</b>	<b>2 Units</b>	<b>DMT 109</b>	<b>CAD Technology Laboratory Creo Parametric (Sheetmetal)</b>	<b>2 Units</b>
<p>(Formerly CDI 101Z.)  <i>Requisite/Advisory: None.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>  <i>Pass-No Pass (P-NP) course.</i>            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.</p>			<p>(Formerly CDI 109Z.)  <i>Requisite/Advisory: None.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>  <i>Pass-No Pass (P-NP) course.</i>            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.</p>		
<b>DMT 102</b>	<b>CAD Technology Laboratory SolidWorks (Beginning)</b>	<b>2 Units</b>	<b>DMT 110</b>	<b>CAD Technology Laboratory Geometric Dimensioning and Tolerancing</b>	<b>2 Units</b>
<p>(Formerly CDI 102Z.)  <i>Requisite/Advisory: None.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>  <i>Pass-No Pass (P-NP) course.</i>            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.</p>			<p>(Formerly CDI 110Z.)  <i>Requisite/Advisory: None.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>  <i>Pass-No Pass (P-NP) course.</i>            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.</p>		

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**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.  
 Corequisite: 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 Design and Manufacturing 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.  
 Corequisite: 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 Design and Manufacturing 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.  
 Corequisite: 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 Design and Manufacturing 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.  
 Corequisite: 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 Design and Manufacturing 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.  
 Corequisite: 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 Design and Manufacturing Technologies 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. CNC equipment will be utilized to complete projects.

**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.)  
 (Not open to students with credit in ECON 3H.)  
 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 3H Environmental Economics - HONORS 4 Units**

(See general education pages for the requirement this course meets.)  
 (Not open to students with credit in ECON 3.)  
 (Admission into this course requires consent of the Honors Program Coordinator.)  
 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. As an honors course students will be expected to complete extra assignments to gain deeper insight in environmental economics.

**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.*

## EDUCATIONAL ACCESS

*(The Educational Access Department was formerly the Special Education Department.)*

**EDAC 1 Introduction to College and Accommodations 1 ½ Units**

*Requisite/Advisory: None. One and one-half hours lecture (18 hours total per quarter). Pass-No Pass (P-NP) course. Orientation to college for the first time college student. Includes De Anza academic policies, resources, campus programs and services; transition concerns from high school to post-secondary for students requiring special classroom accommodations related to disabilities; California system of higher education; educational goals and program planning. This course satisfies the college orientation requirement for new students.*

**EDAC 54 Universal Design and Accessibility 4 Units**

*Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; EDAC 245. Four hours lecture (48 hours total per quarter). Introduction to Universal Design concept and media accessibility principles applicable across multidisciplinary areas such as instructional design, information architecture, engineering and technology, media communications, urban design, and transit systems. Benefits of inclusive design by considering the full range of human diversity: physical, cognitive, sensory, cultural and social, and the advantages of incorporating accessibility into the planning and design phase of products, services, and consumer experiences will be examined. Students will examine legal guidelines and accessible media content design strategies for various media (digital documents, videos, audio, websites), and will identify tools and techniques to extend usability for all users.*

- EDAC 230 Vocational Interests and Aptitudes 1 Unit**
- EDAC 230R 2 Units**
- EDAC 230S 3 Units**
- EDAC 230T 4 Units**
- EDAC 230U 5 Units**
- EDAC 230V 6 Units**
- EDAC 230W 7 Units**
- EDAC 230X 8 Units**
- EDAC 230Y 9 Units**
- EDAC 230Z 10 Units**

*(Formerly SPED 230, 230R-Z respectively.) 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.*

- EDAC 231 Workforce Skills 1 Unit**
- EDAC 231R 2 Units**
- EDAC 231S 3 Units**
- EDAC 231T 4 Units**
- EDAC 231U 5 Units**
- EDAC 231V 6 Units**
- EDAC 231W 7 Units**
- EDAC 231X 8 Units**
- EDAC 231Y 9 Units**
- EDAC 231Z 10 Units**

*(Formerly SPED 231, 231R-Z respectively.) 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.*

- EDAC 232 Workplace Culture 1 Unit**
- EDAC 232R 2 Units**
- EDAC 232S 3 Units**
- EDAC 232T 4 Units**
- EDAC 232U 5 Units**
- EDAC 232V 6 Units**
- EDAC 232W 7 Units**
- EDAC 232X 8 Units**
- EDAC 232Y 9 Units**
- EDAC 232Z 10 Units**

*(Formerly SPED 232, 232R-Z respectively.) 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.*

- EDAC 233 Professional Conduct 1 Unit**
- EDAC 233R 2 Units**
- EDAC 233S 3 Units**
- EDAC 233T 4 Units**
- EDAC 233U 5 Units**
- EDAC 233V 6 Units**
- EDAC 233W 7 Units**
- EDAC 233X 8 Units**
- EDAC 233Y 9 Units**
- EDAC 233Z 10 Units**

*(Formerly SPED 233, 233R-Z respectively.) 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. Students will develop an understanding of and comparison of professional conduct and behavior in various work environments through individualized instruction and training to meet the goals identified in the Student Educational Contract.*

E	<b>EDAC 234</b>	<b>Civic Responsibility</b>	<b>1 Unit</b>
	<b>EDAC 234R</b>		<b>2 Units</b>
	<b>EDAC 234S</b>		<b>3 Units</b>
	<b>EDAC 234T</b>		<b>4 Units</b>
	<b>EDAC 234U</b>		<b>5 Units</b>
	<b>EDAC 234V</b>		<b>6 Units</b>
	<b>EDAC 234W</b>		<b>7 Units</b>
	<b>EDAC 234X</b>		<b>8 Units</b>
	<b>EDAC 234Y</b>		<b>9 Units</b>
	<b>EDAC 234Z</b>		<b>10 Units</b>

(Formerly SPED 234, 234R-Z respectively.)

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.

E	<b>EDAC 235</b>	<b>Transition to Campus</b>	<b>1 Unit</b>
	<b>EDAC 235R</b>		<b>2 Units</b>
	<b>EDAC 235S</b>		<b>3 Units</b>
	<b>EDAC 235T</b>		<b>4 Units</b>
	<b>EDAC 235U</b>		<b>5 Units</b>
	<b>EDAC 235V</b>		<b>6 Units</b>
	<b>EDAC 235W</b>		<b>7 Units</b>
	<b>EDAC 235X</b>		<b>8 Units</b>
	<b>EDAC 235Y</b>		<b>9 Units</b>
	<b>EDAC 235Z</b>		<b>10 Units</b>

(Formerly SPED 235, 235R-Z respectively.)

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.

E	<b>EDAC 240</b>	<b>Assistive Technology Access Evaluation</b>	<b>½ Unit</b>
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(Formerly SPED 240.)

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.

E	<b>EDAC 245</b>	<b>Assistive Technology Access (Windows)</b>	<b>2 Units</b>
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(Formerly SPED 245.)

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.

E	<b>EDAC 290X</b>	<b>Assistive Technology Access Practice</b>	<b>½ Unit</b>
	<b>EDAC 290Y</b>		<b>1 Unit</b>

(Formerly SPED 290X and SPED 290Y respectively.)

Credit course - Does not apply to De Anza Associate degree.

Prerequisite: EDAC 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.

## ENGINEERING

E	<b>ENGR 10</b>	<b>Introduction to Engineering</b>	<b>4 ½ Units</b>
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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 projects. 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.

E	<b>ENGR 35</b>	<b>Statics</b>	<b>4 Units</b>
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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.

E	<b>ENGR 37</b>	<b>Introduction to Circuit Analysis</b>	<b>5 Units</b>
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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.

E	<b>ENGR 77</b>	<b>Special Projects in Engineering</b>	<b>1 Unit</b>
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**ENGR 77X**

**ENGR 77Y**

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.

E	<b>ENGR 78X</b>	<b>Special Projects in Electrical Engineering</b>	<b>1 Unit</b>
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**ENGR 78Y**

**ENGR 78Z**

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.

E	<b>ENGR 79X</b>	<b>Special Projects in Mechanical Engineering</b>	<b>1 Unit</b>
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**ENGR 79Y**

**ENGR 79Z**

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

Some courses in the English Department are designed for students with a recommended level of skills and knowledge. De Anza uses a variety of assessment methods – including placement tests, high school transcripts and high school GPA – to place students in the best course sequence for them to succeed. Students who have not been assessed or who are unsure of their placement should contact the Assessment Center: [deanza.edu/assessment](http://deanza.edu/assessment).

## ENGLISH AS A SECOND LANGUAGE

Some courses in the English Department are designed for students with a recommended level of skills and knowledge. De Anza uses a variety of assessment methods – including placement tests, high school transcripts and high school GPA – to place students in the best course sequence for them to succeed. Students who have not been assessed or who are unsure of their placement should contact the Assessment Center: [deanza.edu/assessment](http://deanza.edu/assessment).

E	<b>ESL 5</b>	<b>Advanced Composition and Reading</b>	<b>5 Units</b>
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(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.

<p><b>ESL 6 Critical Reading and Research for Writing 5 Units</b> (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.</p>	<p><b>ESL 260 Accent Reduction (for Non-Native Speakers) 4 Units</b> <i>Credit course - Does not apply to De Anza Associate degree.</i> (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.</p>
<p><b>ESL 200 High Beginning English as a Second Language 10 Units</b> <i>Credit course - Does not apply to De Anza Associate degree.</i> 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.</p>	<p><b>ESL 261 Low Advanced Listening and Speaking 3 Units</b> <i>Credit course - Does not apply to De Anza Associate degree.</i> (Restricted to students whose native language is not English.) Prerequisite: A qualifying score on the English as a Second Language Placement Test or ESL 251. 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.</p>
<p><b>ESL 234 Low Intermediate English as a Second Language 10 Units</b> <i>Credit course - Does not apply to De Anza Associate degree.</i> (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.</p>	<p><b>ESL 262 Low Advanced Reading 3 Units</b> <i>Credit course - Does not apply to De Anza Associate degree.</i> (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.</p>
<p><b>ESL 244 Intermediate English as a Second Language 10 Units</b> <i>Credit course - Does not apply to De Anza Associate degree.</i> (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.</p>	<p><b>ESL 263 Low Advanced Grammar and Writing 4 Units</b> <i>Credit course - Does not apply to De Anza Associate degree.</i> (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.</p>
<p><b>ESL 251 High Intermediate Listening and Speaking 3 Units</b> <i>Credit course - Does not apply to De Anza Associate degree.</i> (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.</p>	<p><b>ESL 272 Advanced Reading and Vocabulary 5 Units</b> <i>Credit course - Does not apply to De Anza Associate degree.</i> (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.</p>
<p><b>ESL 252 High Intermediate Reading 3 Units</b> <i>Credit course - Does not apply to De Anza Associate degree.</i> (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.</p>	<p><b>ESL 273 Introduction to the Essay 5 Units</b> <i>Credit course - Does not apply to De Anza Associate degree.</i> (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.</p>
<p><b>ESL 253 High Intermediate Grammar and Writing 4 Units</b> <i>Credit course - Does not apply to De Anza Associate degree.</i> (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.</p>	<p><b>ESL 274 Grammar and Proofreading for Academic Writing 4 Units</b> <i>Credit course - Does not apply to De Anza Associate degree.</i> (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.</p>
<p><b>ESL 254 American Language and Culture Through Media as Related to Child Development 2 Units</b> <i>Credit course - Does not apply to De Anza Associate degree.</i> Corequisite: 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.</p>	<p><b>ESL 280 Developmental Reading for Child Development and Education 1 Unit</b> <i>Credit course - Does not apply to De Anza Associate degree.</i> (Restricted to students who are enrolled in the Child Development Department.) Corequisite: ESL 280 students must also enroll in CD 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.</p>

## E ENGLISH/LITERATURE

Some courses in the English Department are designed for students with a recommended level of skills and knowledge. De Anza uses a variety of assessment methods – including placement tests, high school transcripts and high school GPA – to place students in the best course sequence for them to succeed. Students who have not been assessed or who are unsure of their placement should contact the Assessment Center: [deanza.edu/assessment](http://deanza.edu/assessment).

### 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.)  
(Not open to students with credit in ELIT 10H.)  
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 10H Introduction to Fiction - HONORS 4 Units

(See general education pages for the requirement this course meets.)  
(Not open to students with credit in ELIT 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).  
Intensive study of fiction; reading, discussion and analysis of structure and meaning in selected novels and short stories. As an honors course, the students will be expected to complete extra assignments to gain deeper insight into fiction.

### 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.)  
(Not open to students with credit in ELIT 17H.)  
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 17H Introduction to Shakespeare - HONORS 4 Units

(See general education pages for the requirement this course meets.)  
(Not open to students with credit in ELIT 17.)  
(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).  
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. As an honors course, the students will be expected to complete extra assignments to gain deeper insight in English literature.

### 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 38 Utopian/Dystopian 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 texts of this genre, with particular attention to contemporary (postwar) dystopian novels, and with additional readings at instructor's discretion from political theory/philosophy, cultural studies, or other sources that foreground issues or themes implicit in the literary texts.

### 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.)  
(Not open to students with credit in ELIT 41H.)  
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 41H Ethnic Literature of the United States - HONORS 4 Units

(See general education pages for the requirement this course meets.)  
(Not open to students with credit in ELIT 41.)  
(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).  
Examines significant authors, movements, and traditions (continuing as well as emerging) in a diverse range of ethnic literature of the United States. As an honors course, the students will be expected to complete extra assignments to gain deeper insight in 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.)  
(Not open to students with credit in ELIT 46A.)  
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 46AH Major British Writers (Medieval and Renaissance) - HONORS 4 Units**

(See general education pages for the requirement this course meets.)  
 (Not open to students with credit in ELIT 46A.)  
 (Admission into this course requires consent of the Honors Program Coordinator.)  
 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. As an honors course, the students will be expected to complete extra assignments to gain deeper insight in Literature.

**ELIT 46B Major British Writers (Neo-Classical and Romantic) 4 Units**

(See general education pages for the requirement this course meets.)  
 (Not open to students with credit in ELIT 46BH.)  
 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 46BH Major British Writers (Neo-Classical and Romantic) - HONORS 4 Units**

(See general education pages for the requirement this course meets.)  
 (Not open to students with credit in ELIT 46B.)  
 (Admission into this course requires consent of the Honors Program Coordinator.)  
 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. As an honors course, the students will be expected to complete extra assignments to gain deeper insight in literature.

**ELIT 46C Major British Writers (Victorian and Modern) 4 Units**

(See general education pages for the requirement this course meets.)  
 (Not open to students with credit in ELIT 46CH.)  
 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 46CH Major British Writers (Victorian and Modern) - HONORS 4 Units**

(See general education pages for the requirement this course meets.)  
 (Not open to students with credit in ELIT 46CH.)  
 (Admission into this course requires consent of the Honors Program Coordinator.)  
 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. As an honors course, the students will be expected to complete extra assignments to gain deeper insight in English literature.

**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.)  
 (Not open to students with credit in ELIT 48AH.)  
 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 48AH Major American Writers (Colonial to Romantic, 1620-1865) - HONORS 4 Units**

(See general education pages for the requirement this course meets.)  
 (Not open to students with credit in ELIT 48A.)  
 (Admission into this course requires consent of the Honors Program Coordinator.)  
 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. As an honors course, the students will be expected to complete extra assignments to gain deeper insight in literature.

**ELIT 48B Major American Writers (The Advent of Realism, 1865-1914) 4 Units**

(See general education pages for the requirement this course meets.)  
 (Not open to students with credit in ELIT 48BH.)  
 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 Chesnut, Mary Wilkins Freeman, Kate Chopin, Stephen Crane, Booker T. Washington, W.E.B. DuBois, Black Elk, and Robert Frost.

**ELIT 48BH Major American Writers (The Advent of Realism, 1865-1914) - HONORS 4 Units**

(See general education pages for the requirement this course meets.)  
 (Not open to students with credit in ELIT 48B.)  
 (Admission into this course requires consent of the Honors Program Coordinator.)  
 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 Chesnut, Mary Wilkins Freeman, Kate Chopin, Stephen Crane, Booker T. Washington, W.E.B. DuBois, Black Elk, and Robert Frost. As an honors course, the students will be expected to complete extra assignments to gain deeper insight in Literature.

**ELIT 48C Major American Writers (The Modern Age, 1914-the Present) 4 Units**

(See general education pages for the requirement this course meets.)  
 (Not open to students with credit in ELIT 48CH.)  
 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 48CH Major American Writers (The Modern Age, 1914-the Present) - HONORS 4 Units**

(See general education pages for the requirement this course meets.)  
 (Not open to students with credit in ELIT 48C.)  
 (Admission into this course requires consent of the Honors Program Coordinator.)  
 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. As an honors course, the students will be expected to complete extra assignments to gain deeper insight in English literature.

**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.

## E ENGLISH/WRITING

Some courses in the English Department are designed for students with a recommended level of skills and knowledge. De Anza uses a variety of assessment methods – including placement tests, high school transcripts and high school GPA – to place students in the best course sequence for them to succeed. Students who have not been assessed or who are unsure of their placement should contact the Assessment Center: [deanza.edu/assessment](http://deanza.edu/assessment).

### **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 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.*

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 Science Technician: Wildlife Monitoring 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 monitoring field studies lab course exploring wildlife movement and wildlife corridors locally. Applies the principles of wildlife science technology to assist in the preservation, protection and restoration of native species and ecosystems.*

## 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*

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**ESCI 58 Wildlife Science Technician: Wildlife Monitoring 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 monitoring 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 Science Technician (WST) 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 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**

**ES 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.)

**ES 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.)

**ES 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.)

**ES 4 Energy, the Environment, 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).*  
Energy plays a dominant role in our modern global industrialized society. Rapid growth of human populations worldwide, combined with increases in fossil fuel related energy to support human activities have caused social, environmental, health and safety, political and economic ramifications. Damage to land, sea, and air, nuclear and oil spill disasters, global political strife, greenhouse gas emissions, species extinction and habitat degradation, and economic inflation are all associated with our need to have abundant amounts of energy in our lives. Many issues faced in the world we live in are the result of the extraction, production, transmission, distribution and consumption of energy. Energy and its negative impacts know no social, economic, cultural, racial, gender, religious, political, geographic or environmental boundaries. This course examines how our energy demands and its ramifications affect everyone on the planet. (Field trip outside of scheduled class time may be required for this course.)

**ES 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 associated regulation in the U.S. and California, addressing the areas of air quality, water quality, waste management, hazardous materials management, natural resources management and preservation, global warming/climate change, and land use, along with environmental equity/justice concerns.

**ES 50 Introduction to Environmental Resource Management and Pollution Prevention 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).*  
An introduction to the interrelated fields of Environmental Resource Management (ERM) and Pollution Prevention (P2), surveying the areas of environmental law and regulation, environmental health, pollution control and prevention, and efficient/sustainable use of our environmental resources (air, water, land, etc.). Includes overviews of: 1) U.S. and California environmental laws and the governmental regulatory agencies that implement those laws 2) Environmentally-related human health issues and the associated field of Environmental Health, 3) Pollution control technologies, 4) Pollution prevention approaches and techniques (such as Design for the Environment, Product Stewardship, Green Building, Energy Management, Water Conservation, etc.) and 4) Environmental management tools, including Environmental Management Systems (such as ISO 14001) and Environmental Performance Reports. Explores associated job and career opportunities in the ERM and P2 fields.

**ES 51A Sustainable Energy Systems 4 Units**

*Prerequisite:* ES 70 (may be taken concurrently) and ES 79 (may be taken concurrently).

*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).

Examines 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. An understanding of electric power, the electric power industry and the economics of distributed energy resources is provided in the course. The essential characteristics of traditional and renewable energy systems such as wind, solar and fuel cells will also be examined.

**ES 51B Energy Efficient Buildings 3 Units**

*Prerequisite:* ES 71 (may be taken concurrently).

*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).

A general overview of Energy Efficient Buildings with an emphasis on residential and small commercial buildings is presented in this course. Specific topics to be covered include: energy use in buildings, bioclimatic design, indoor environmental quality, heat transfer concepts, load and energy calculations, HVAC systems and equipment, and natural and artificial lighting. A hands-on lab component will accompany the lecture presentations.

**ES 51C Building Automation Systems 2 Units**

(Formerly ES 78B.)

*Prerequisite:* ES 78 (may be taken concurrently).

*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).

Examines detailed strategies and principles for building operation systems and controls. Course 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.

**ES 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).

An introduction to the field of environmental health, a branch of public health that deals with the effects that environmental hazards; such as air and water pollution, industrial and hazardous wastes, noise and radiation, food and waterborne diseases, vectors (disease-carrying organisms), and pesticides and other toxic chemical-containing products, including consumer products; have on human health. Investigates the laws, regulations, standards and policies governing environmental and occupational exposures, and the means (principles and practices) used to reduce human health risks from such exposures. Explores associated job and career opportunities in the field.

**ES 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.

**ES 61A Environmental Resource Management and Pollution Prevention: Air, Water and Land 4 Units**

*Advisory:* EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; ES 50.

Four hours lecture (48 hours total per quarter).

Explores environmental protection (pollution control and prevention) and resource management, focusing on our air, water and land resources. Examines the scientific, legal, technical and practical management aspects involved in protecting and sustainably using/managing such resources. Explores associated job and career opportunities in these areas.

**ES 61B Environmental Resource Management and Pollution Prevention: Energy, Chemicals and Waste 4 Units**

*Advisory:* EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; ES 50.

Four hours lecture (48 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 scientific, 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.

**ES 61L Environmental Resource Management and Pollution Prevention Laboratory 1 Unit**

*Prerequisite:* ES 61A (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).

Laboratory class focused on using environmental sampling, monitoring and assessment devices and equipment and analytical tools to detect and quantify environmental contaminants present in air, water and soil, as well as assess the overall quality of those basic environmental resources.

**ES 62A Environmental Management Tools: Environmental Management Systems and Environmental Performance Reporting 4 Units**

*Advisory:* EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.

Four hours lecture (48 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 businesses and other organizations), and 2) Environmental Performance Reporting (involving publicly available reports issued by businesses and other organizations showing their environmental performance based on established metrics). Also includes an examination of Green Business Certification programs. Explores associated job and career opportunities in these areas.

**ES 62B Environmental Management Tools: CEQA and Environmental Impact Reports (EIRs) 4 Units**

*Advisory:* EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.

Four hours lecture (48 hours total per quarter).

Examines the "CEQA process" with particular emphasis on Environmental Impact Reports (EIRs) which are used as a means to identify, assess, mitigate (as feasible) and then publicly disclose the significant environmental effects of certain proposed projects (both public and private) as required under the California Environmental Quality Act (CEQA). Case studies involving local projects are presented along with examination of corresponding CEQA documents, including EIRs. Explores job and career opportunities associated with CEQA/Environmental Impact Assessment and Reporting.

**ES 62C Environmental Management Tools: Environmental Site Assessments (ESAs) 4 Units**

*Advisory:* EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.

Four hours lecture (48 hours total per quarter).

Examines Environmental Site Assessments (ESAs) which are used to assess (prior to their sale or redevelopment/ reuse) commercial, light industrial, and 'brownfield' sites for significant environmental contamination and, if found, then develop and evaluate 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.

**ES 62D Environmental Management Tools: Industrial Ecology and Sustainable Design Principles 4 Units**

*Advisory:* EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.

Four hours lecture (48 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 (such as Life Cycle Impact Assessments, Design for the Environment, Biomimicry, Green Chemistry/Green Chemicals, Green Building, Energy Efficiency & Conservation, Water Efficiency & Conservation, Zero Waste). Also includes an examination of Product Stewardship (Extended Producer Responsibility) policies to enhance reuse/recycling efforts and prevent pollution. Explores associated job and career opportunities.

**ES 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.

**ES 64 California's Approach To Global Warming/Global Climate Change 2 Units**

*Advisory:* EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.

Two hours lecture (24 hours total per quarter).

Examines the various strategies and approaches being taken at the state and local levels to address both the root causes and the anticipated effects of global warming/global climate change. Particular emphasis is placed on examining implementation of state law AB32, California's Global Warming Solutions Act. Explores associated job and career opportunities in helping to address global warming/global climate change.

**ES 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.

**ES 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.

<b>E</b>	<b>ES 67</b>	<b>Environmental Team-Building</b>	<b>1 Unit</b>	<b>ES 78</b>	<b>Introduction to Energy Management Systems and Controls</b>	<b>1 Unit</b>
	<p><i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>One hour lecture (12 hours total per quarter).</i>                      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.</p>			<p><i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>One hour lecture (12 hours total per quarter).</i>                      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.)</p>		
	<b>ES 68</b>	<b>Community-Based Coalitions and Stakeholders</b>	<b>1 Unit</b>	<b>ES 79</b>	<b>Renewable and Alternative Energy Systems</b>	<b>1 Unit</b>
	<p><i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>One hour lecture (12 hours total per quarter).</i>                      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.</p>			<p><i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>One hour lecture (12 hours total per quarter).</i>                      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.)</p>		
	<b>ES 69</b>	<b>Energy Management Within Your Organization</b>	<b>1 Unit</b>	<b>ES 80</b>	<b>California Field Studies</b>	<b>1 Unit</b>
	<p><i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>One hour lecture (12 hours total per quarter).</i>                      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.</p>			<p><b>ES 80X</b> <b>2 Units</b>  <b>ES 80Y</b> <b>3 Units</b>  <b>ES 80Z</b> <b>4 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).</i>                      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.)</p>		
	<b>ES 69A</b>	<b>Introduction to Facilities Management</b>	<b>3 Units</b>	<b>ES 81</b>	<b>Leadership in Energy and Environmental Design/Sustainability Codes</b>	<b>2 Units</b>
	<p><i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours lecture (36 hours total per quarter).</i>                      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.)</p>			<p><i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Two hours lecture (24 hours total per quarter).</i>                      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.</p>		
	<b>ES 70</b>	<b>Introduction to Energy</b>	<b>1 Unit</b>	<b>ES 82</b>	<b>Project Management and Technical Report Writing for Energy Professionals</b>	<b>2 Units</b>
	<p><i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>One hour lecture (12 hours total per quarter).</i>                      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.</p>			<p><i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Two hours lecture (24 hours total per quarter).</i>                      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.</p>		
<b>ES 71</b>	<b>Introduction to Sustainable Buildings</b>	<b>1 Unit</b>	<b>ES 83</b>	<b>Energy Management Return on Investment</b>	<b>2 Units</b>	
<p><i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>One hour lecture (12 hours total per quarter).</i>                      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.</p>			<p><i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Two hours lecture (24 hours total per quarter).</i>                      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.</p>			
<b>ES 76</b>	<b>Energy Star Products</b>	<b>1 Unit</b>	<b>ES 84</b>	<b>Residential Solar Design and Installation</b>	<b>1 Unit</b>	
<p><i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>One hour lecture (12 hours total per quarter).</i>                      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.</p>			<p><i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>One hour lecture (12 hours total per quarter).</i>                      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.</p>			
<b>ES 76A</b>	<b>Solar Thermal Systems</b>	<b>1 Unit</b>				
<p><i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>One hour lecture (12 hours total per quarter).</i>                      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.</p>						
<b>ES 77X</b>	<b>Special Projects in Environmental Studies</b>	<b>1 Unit</b>				
<b>ES 77Y</b>		<b>2 Units</b>				
<b>ES 77Z</b>		<b>3 Units</b>				
<p><i>Prerequisite: Consent of instructor and division dean.</i>  <i>Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).</i>                      Individual research in environmental studies. Specific projects determined in consultation with the instructor. Outside reading and written report required.</p>						

**ES 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.)

**ES 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).*  
 Interpretive 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 socioeconomic groups will also be explored. (Off-campus field trips are required for this course.)

**ES 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.

**ES 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.

**ES 95A Environmental Studies Internship 1 Unit**  
**ES 95B 2 Units**  
**ES 95C 3 Units**  
**ES 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 Unit(s)**  
**F/TV 2AW 4 ½ Unit(s)**  
*(See general education pages for the requirement this course meets.)*  
*(Not open to students with credit in F/TV 2AH or F/TV 2AWH.)*  
*(Student 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 2AH History of Cinema (1895-1950) - HONORS 4 Unit(s)**  
**F/TV 2AWH 4 ½ Unit(s)**  
*(See general education pages for the requirement this course meets.)*  
*(Not open to students with credit in F/TV 2A or F/TV 2AWH.)*  
*(Admission into this course requires consent of the Honors Program Coordinator.)*  
*(Students may enroll in either F/TV 2A, 2AH, 2AW or 2AWH.)*  
*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. F/TV 2AWH will cover expanded topics in historiography, such as problems and approaches to historical film research and analysis. As an honors course, students will be expected to complete extra assignments to gain deeper insight into the history of cinematic arts.

**F/TV 2B History of Cinema (1950-Present) 4 Unit(s)**  
**F/TV 2BW 4 ½ Unit(s)**  
*(See general education pages for the requirement this course meets.)*  
*(Not open to students with credit in F/TV 2BH or F/TV 2BWH.)*  
*(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 2BH History of Cinema (1950-Present) - HONORS 4 Unit(s)**  
**F/TV 2BWH 4 ½ Unit(s)**  
*(See general education pages for the requirement this course meets.)*  
*(Not open to students with credit in F/TV 2B or F/TV 2BWH.)*  
*(Admission into this course requires consent of the Honors Program Coordinator.)*  
*(Students may enroll in either F/TV 2B, 2BH, 2BW or 2BWH.)*  
*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. F/TV 2BWH will cover expanded topics in historiography, such as problems and approaches to historical film research and analysis. As an honors course, students will be expected to complete extra assignments to gain deeper insight into the history of cinematic arts.

**F/TV 2C Contemporary World Cinema 4 Unit(s)**  
**F/TV 2CW 4 ½ Unit(s)**  
*(See general education pages for the requirement this course meets.)*  
*(Not open to students with credit in F/TV 2CH or F/TV 2CWH.)*  
*(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 F/TV 2CH Contemporary World Cinema – HONORS 4 Unit(s)**  
**F/TV 2CWH 4 ½ Unit(s)**  
*(See general education pages for the requirement this course meets.)*  
*(Not open to students with credit in F/TV 2C or F/TV 2CW.)*  
*(Admission into this course requires consent of the Honors Program Coordinator.)*  
*(Students may enroll in either F/TV 2C, 2CH, 2CW or 2CWH.)*  
*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 2CWH will cover expanded topics in historiography, such as problems and approaches to historical film research and analysis. As an honors course, students will be expected to complete extra assignments to gain deeper insight into world cinema today.
- 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.)*  
*(Not open to students with credit in F/TV 10H.)*  
*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 10H Introduction to Electronic Media - HONORS 4 Units**  
*(See general education pages for the requirement this course meets.)*  
*(Not open to students with credit in F/TV 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).*  
 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. As an honors course the students will be expected to complete extra assignments to gain deeper insight into the mass media.
- 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.

<p><b>F/TV 44B</b>      <b>16mm/35mm Film Production II</b>      <b>4 Units</b>  <i>(Formerly F/TV 52B.)</i>  <i>Prerequisite: F/TV 44A.</i>  <i>Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).</i>                      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.</p>	<p><b>F/TV 64B</b>      <b>Advanced Screenwriting Workshop II</b>      <b>4 Units</b>  <i>Prerequisite: F/TV 64A.</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>Four hours lecture (48 hours total per quarter).</i>                      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.</p>
<p><b>F/TV 45</b>      <b>History of Experimental Film/Video</b>      <b>4 Units</b>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>Four hours lecture (48 hours total per quarter).</i>                      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.</p>	<p><b>F/TV 64C</b>      <b>Advanced Screenwriting Workshop III</b>      <b>4 Units</b>  <i>Prerequisite: F/TV 64B.</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>Four hours lecture (48 hours total per quarter).</i>                      An intensive workshop in the rewriting 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.</p>
<p><b>F/TV 56A</b>      <b>Introduction to Visual Effects and Color Grading</b>      <b>4 Units</b>  <i>Prerequisite: F/TV 20.</i>  <i>Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).</i>                      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.</p>	<p><b>F/TV 65</b>      <b>Current Practices in the Film/Video Profession</b>      <b>4 Units</b>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Four hours lecture (48 hours total per quarter).</i>                      Current creative, technical, economic and employment conditions in film and video from the perspective of film and television working professionals.</p>
<p><b>F/TV 57A</b>      <b>Nonfiction Workshop I: The Documentary</b>      <b>4 Units</b>  <i>Prerequisite: F/TV 20.</i>  <i>Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).</i>                      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.</p>	<p><b>F/TV 66A</b>      <b>Basic Techniques of Animation: Stop Motion</b>      <b>3 Units</b>  <i>Requisite/Advisory: None.</i>  <i>Two and one-half hours lecture, one and one-half hours laboratory (48 hours total per quarter).</i>                      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.</p>
<p><b>F/TV 57B</b>      <b>Nonfiction Workshop II: The Documentary</b>      <b>4 Units</b>  <i>Prerequisite: F/TV 57A.</i>  <i>Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).</i>                      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.</p>	<p><b>F/TV 68A</b>      <b>Sound for Animation</b>      <b>3 Units</b>  <i>Advisory: F/TV 69A.</i>  <i>Two and one-half hours lecture, one and one-half hours laboratory (48 hours total per quarter).</i>                      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.</p>
<p><b>F/TV 58S</b>      <b>Film/Television Production Workshop</b>      <b>1 Unit</b>  <b>F/TV 58T</b>      <b>2 Units</b>  <b>F/TV 58U</b>      <b>3 Units</b>  <b>F/TV 58V</b>      <b>4 Units</b>  <i>Prerequisite: F/TV 20.</i>  <i>Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).</i>                      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.</p>	<p><b>F/TV 69A</b>      <b>Principles of Animation: 2D Media</b>      <b>3 Units</b>  <i>Advisory: ARTS 4A.</i>  <i>Two and one-half hours lecture, one and one-half hours laboratory (48 hours total per quarter).</i>                      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.</p>
<p><b>F/TV 59</b>      <b>Role of the Media Producer</b>      <b>4 Units</b>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5; F/TV 6A.</i>  <i>Four hours lecture (48 hours total per quarter).</i>                      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.</p>	<p><b>F/TV 70A</b>      <b>The Storyboard and Visual Development for Animation</b>      <b>3 Units</b>  <i>Advisory: F/TV 69A.</i>  <i>Two and one-half hours lecture, one and one-half hours laboratory (48 hours total per quarter).</i>                      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.</p>
<p><b>F/TV 60B</b>      <b>Screenwriting Fundamentals for Film/Video II</b>      <b>4 Units</b>  <i>Prerequisite: F/TV 6A.</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>Four hours lecture (48 hours total per quarter).</i>                      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.</p>	<p><b>F/TV 71G</b>      <b>Introduction to 3D Computer Animation: Modeling</b>      <b>4 Units</b>  <i>Requisite/Advisory: None.</i>  <i>Three hours lecture, three hours laboratory (72 hours total per quarter).</i>                      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.</p>
<p><b>F/TV 60C</b>      <b>Screenwriting Fundamentals for Film/Video III</b>      <b>4 Units</b>  <i>Prerequisite: F/TV 60B.</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>Four hours lecture (48 hours total per quarter).</i>                      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.</p>	<p><b>F/TV 71H</b>      <b>Introduction to 3D Computer Animation: Character Motion</b>      <b>4 Units</b>  <i>(Formerly F/TV 82A.)</i>  <i>Prerequisite: F/TV 66A or F/TV 69A; and F/TV 71G.</i>  <i>Three hours lecture, three hours laboratory (72 hours total per quarter).</i>                      Techniques of three-dimensional animation as applied to objects and characters. Application of classic animation principles of movement and timing to 3D computer animation.</p>
<p><b>F/TV 64A</b>      <b>Advanced Screenwriting Workshop I</b>      <b>4 Units</b>  <i>Prerequisite: F/TV 60B or F/TV 60C.</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>Four hours lecture (48 hours total per quarter).</i>                      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.</p>	<p><b>F/TV 72G</b>      <b>Animated Film Pre-Production Workshop</b>      <b>4 Units</b>  <i>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).</i>  <i>Three hours lecture, three hours laboratory (72 hours total per quarter).</i>                      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.</p>

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**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 festivals or 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).*

The location of people and activities throughout the world and understanding the reasons for their distribution will be examined. 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

(See Learning Strategies for course listings.)

## 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.

## H 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**

*Corequisite: 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 50, 60A, 61, 71, 72, 73, 75, 101C and 101D.*

*Advisory: CIS 4 and HLTH 57A.*

*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**

*Corequisite: 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.*

*Corequisite: 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.*

*Corequisite: 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.*

*Corequisite: 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**

*Corequisite: 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 Kleihure-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**

*Corequisite: 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.

<b>HTEC 81</b>	<b>Clinical Urinalysis Laboratory</b>	<b>3/4 Unit</b>	<b>HTEC 85A</b>	<b>Clinical Chemistry I Laboratory</b>	<b>1 ½ Units</b>
<i>Corequisite: HTEC 81 students must also enroll in HTEC 81A. Two and one-quarter hours laboratory (27 hours total per quarter).</i>			<i>Corequisite: HTEC 85A students must also enroll in HTEC 85C. Four and one-half hours laboratory (54 hours total per quarter).</i>		
Teaches the student the various properties and constituents of urine via "hands-on" learning. Emphasis is placed on the interpretation and handling of urine specimens and their accompanying requisitions. The students will be taught to examine urine physically, chemically, and microscopically and compare clinical values as related to the physiology of the urinary system in health and disease. Correlating test results to disease states will be accomplished. Successful completion of this course and 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.			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.		
<b>HTEC 81A</b>	<b>Clinical Urinalysis Lecture</b>	<b>1 ½ Units</b>	<b>HTEC 85B</b>	<b>Clinical Chemistry II Laboratory</b>	<b>1 ½ Units</b>
<i>Corequisite: HTEC 81A students must also enroll in HTEC 81. One and one-half hours lecture (18 hours total per quarter).</i>			<i>Prerequisite: HTEC 85A. Corequisite: HTEC 85B students must also enroll in HTEC 85D. Four and one-half hours laboratory (54 hours total per quarter).</i>		
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.			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.		
<b>HTEC 82</b>	<b>Clinical Coagulation Laboratory</b>	<b>3/4 Unit</b>	<b>HTEC 85C</b>	<b>Clinical Chemistry I Lecture</b>	<b>4 ½ Units</b>
<i>Corequisite: HTEC 82 students must also enroll in HTEC 82A. Two and one-quarter hours laboratory (27 hours total per quarter).</i>			<i>Corequisite: HTEC 85C students must also enroll in HTEC 85A. Four and one-half hours lecture (54 hours total per quarter).</i>		
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).			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.		
<b>HTEC 82A</b>	<b>Clinical Coagulation Lecture</b>	<b>1 ½ Units</b>	<b>HTEC 85D</b>	<b>Clinical Chemistry II Lecture</b>	<b>4 ½ Units</b>
<i>Corequisite: HTEC 82A students must also enroll in HTEC 82. One and one-half hours lecture (18 hours total per quarter).</i>			<i>Prerequisite: HTEC 85C. Corequisite: HTEC 85D students must also enroll in HTEC 85B. Four and one-half hours lecture (54 hours total per quarter).</i>		
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.			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.		
<b>HTEC 83</b>	<b>Clinical Microbiology Laboratory</b>	<b>1 ½ Units</b>	<b>HTEC 90G</b>	<b>Basic Patient Care</b>	<b>1 ½ Units</b>
<i>Corequisite: HTEC 83 students must also enroll in HTEC 83A. Four and one-half hours laboratory (54 hours total per quarter).</i>			<i>Corequisite: HTEC 90G students must also enroll in HTEC 101B. Advisory: HTEC 60A. One hour lecture, two hours laboratory (36 hours total per quarter).</i>		
An introduction to the various techniques and safety procedures in clinical microbiology. Emphasizes the morphology and identification of common pathogenic organisms. Correlation of test results with disease states will be accomplished. Successful completion of this course and HTEC 83A is required to enroll in Clinical Microbiology Practicum (HTEC 183).			Medical asepsis, nutrition and diet therapy, vital signs, preparation of examining room and patient, various procedures in the medical office.		
<b>HTEC 83A</b>	<b>Clinical Microbiology Lecture</b>	<b>4 ½ Units</b>	<b>HTEC 90H</b>	<b>Medical Office Sterile Technique</b>	<b>1 ½ Units</b>
<i>Corequisite: HTEC 83A students must also enroll in HTEC 83. Four and one-half hours lecture (54 hours total per quarter).</i>			<i>Corequisite: 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).</i>		
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).			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.		
<b>HTEC 84</b>	<b>Clinical Immunology/ Immunohematology Laboratory</b>	<b>1 ½ Units</b>	<b>HTEC 91</b>	<b>Medical Office Diagnostic Tests</b>	<b>1 ½ Units</b>
<i>Corequisite: HTEC 84 students must also enroll in HTEC 84A. Four and one-half hours laboratory (54 hours total per quarter).</i>			<i>Corequisite: HTEC 91 students must also enroll in HTEC 101F. Advisory: HTEC 60A. One hour of lecture, two hours laboratory (36 hours total per quarter).</i>		
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.			Electrocardiography, theory of assisting with physical therapy and x-ray examinations, theory of diagnostic procedures and instructions.		
<b>HTEC 84A</b>	<b>Clinical Immunology/ Immunohematology Lecture</b>	<b>4 ½ Units</b>	<b>HTEC 93</b>	<b>Pharmacology for Medical Assistants</b>	<b>3 Units</b>
<i>Corequisite: HTEC 84A students must also enroll in HTEC 84. Four and one-half hours lecture (54 hours total per quarter).</i>			<i>Advisory: HTEC 60A. Three hours lecture (36 hours total per quarter).</i>		
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.			Dosage calculation, drug legislation and standards, drug preparations and information regarding antibiotics, sulfonamides, antihistamines, and drugs that affect various systems of the body.		
<b>HTEC 94</b>	<b>Administration of Medications</b>	<b>1 ½ Units</b>	<b>HTEC 94</b>	<b>Administration of Medications</b>	<b>1 ½ Units</b>
<i>Prerequisite: HTEC 93 (may be taken concurrently). One hour lecture, two hours laboratory (36 hours total per quarter).</i>			<i>Prerequisite: HTEC 93 (may be taken concurrently). One hour lecture, two hours laboratory (36 hours total per quarter).</i>		
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.			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.		

<b>H</b>	<p><b>HTEC 95A Medical Assisting Externship 3 Units</b>  <i>Prerequisite:</i> BIOL 54G, 54H, 54I, 54J; HTEC 50, 60A, 60G, 60H, 61, 64A, 64B, 71, 72, 73, 74A, 75, 90G, 90H, 91, 93, 94, 101A, 101B, 101C, 101D, 101E, 101F, 101H and 110.  <i>Advisory:</i> CIS 99.                      Nine hours laboratory (108 hours total per quarter).                      Clinical medical assisting practical experience in medical facilities.</p> <p><b>HTEC 95B Phlebotomy Technician I Externship 3 Units</b>  <i>Prerequisite:</i> HLTH 57A; HTEC 50, 60A, 64A, 64B, 73 and 101A.  <i>Advisory:</i> CIS 4.                      Nine hours laboratory (108 hours total per quarter).                      Phlebotomy Technician I practical experience in medical facilities.</p> <p><b>HTEC 96A Medical Assisting Externship 4 Units</b>  <i>Prerequisite:</i> BIOL 54G, 54H, 54I, 54J; HTEC 50, 60A, 60G, 60H, 61, 64A, 64B, 71, 72, 73, 74A, 75, 90G, 90H, 91, 93, 94, 101A, 101B, 101C, 101D, 101E, 101F, 101H and 110.  <i>Advisory:</i> CIS 99.                      Twelve hours laboratory (144 hours total per quarter).                      Administrative and clinical medical assisting practical experience in medical facilities.</p> <p><b>HTEC 96B Medical Secretarial Externship 4 Units</b>  <i>Prerequisite:</i> ACCT 1A or ACCT 1AH; and BIOL 54G, 54H, 54I, 54J; HTEC 50, 60A, 60G, 60H, 61, 68, 71, 72, 73, 74A, 75, 101C and 101D.  <i>Advisory:</i> CIS 4.                      Twelve hours laboratory (144 hours total per quarter).                      Medical secretarial practical experience in medical facilities.</p> <p><b>HTEC 96C Medical File Clerk Externship 4 Units</b>  <i>Prerequisite:</i> HTEC 50, 60A, 73 and 75.  <i>Advisory:</i> CIS 4 and CIS 99.                      Twelve hours laboratory (144 hours total per quarter).                      Medical file clerk practical experience in medical facilities.</p> <p><b>HTEC 96D Medical Record Clerk Externship 4 Units</b>  <i>Prerequisite:</i> HTEC 50, 60A, 71, 73 and 75.  <i>Advisory:</i> CIS 4 and CIS 99.                      Twelve hours laboratory (144 hours total per quarter).                      Medical record clerk practical experience in medical facilities.</p> <p><b>HTEC 96E Business Office Clerk Externship 4 Units</b>  <i>Prerequisite:</i> HTEC 50, 60A, 72, 73, 75 and 101D.  <i>Advisory:</i> CIS 4 and CIS 99.                      Twelve hours laboratory (144 hours total per quarter).                      Business office clerk practical experience in medical facilities.</p> <p><b>HTEC 96F Insurance and Coding Externship 4 Units</b>  <i>Prerequisite:</i> BIOL 54G, 54H, 54I, 54J; HTEC 50, 60A, 60G, 60H, 61, 72, 73, 76A, 76B, 101C and 101D.                      Twelve hours laboratory (144 hours total per quarter).                      Insurance and coding practical experience in medical facilities.</p> <p><b>HTEC 96G Medical Transcription Externship 4 Units</b>  <i>Prerequisite:</i> HTEC 50, 60A, 60G, 60H, 61, 73, 74A, 74B, 74C, 101C, 101H, 101J, and 101K.                      Twelve hours laboratory (144 hours total per quarter).                      Medical transcription practical experience in medical facilities.</p> <p><b>HTEC 96H EKG Externship 4 Units</b>  <i>Prerequisite:</i> HTEC 50, 60A, 60G, 60H, 64A, 64B, 73, 90G, 91, 101A, 101B and 101F.                      Twelve hours laboratory (144 hours total per quarter).                      Lab assisting practical experience in medical facilities.</p> <p><b>HTEC 101A Skill Building in Clinical Laboratory Procedures II 1 Unit</b>  <i>Prerequisite:</i> 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.</p> <p><b>HTEC 101B Skill Building in Basic Patient Care 1 Unit</b>  <i>Corequisite:</i> 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 medical office.</p> <p><b>HTEC 101C Skill Building in Medical Communications 1 Unit</b>  <i>Corequisite:</i> 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.</p>	<p><b>HTEC 101D Skill Building in Medical Office Financial Procedures 1 Unit</b>  <i>Corequisite:</i> 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.</p> <p><b>HTEC 101E Skill Building in Medical Office Sterile Technique 1 Unit</b>  <i>Corequisite:</i> 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.</p> <p><b>HTEC 101F Skill Building in Medical Office Diagnostic Tests 1 Unit</b>  <i>Corequisite:</i> 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.</p> <p><b>HTEC 101H Skill Building in Medical Transcription and Editing I 1 Unit</b>  <i>Corequisite:</i> 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.</p> <p><b>HTEC 101J Skill Building in Medical Transcription and Editing II 1 Unit</b>  <i>Corequisite:</i> 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.</p> <p><b>HTEC 101K Skill Building in Medical Transcription and Editing III 1 Unit</b>  <i>Corequisite:</i> 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.</p> <p><b>HTEC 101L Intermediate Skill Building in Clinical Laboratory Procedures II 1 Unit</b>  <i>Prerequisite:</i> 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.</p> <p><b>HTEC 101M Advanced Skill Building in Clinical Laboratory Procedures II ½ Unit</b>  <i>Prerequisite:</i> 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.</p> <p><b>HTEC 110 Health Technologies Employment Preparation 1 ½ Units</b>  <i>Advisory:</i> 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.</p> <p><b>HTEC 180 Clinical Hematology/Urinalysis/Coagulation Practicum 6 Units</b>  <i>Prerequisite:</i> 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.</p>
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**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).

<b>H</b>	<p><b>HIST 6B History of Western Civilization 4 Units</b>                      (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.</p>	<p><b>HIST 9H Women in American History - HONORS 4 Units</b>                      (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.</p>
	<p><b>HIST 6BH History of Western Civilization - HONORS 4 Units</b>                      (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).</p>	<p><b>HIST 10 History of California 4 Units</b>                      (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.</p>
	<p><b>HIST 6C History of Western Civilization 4 Units</b>                      (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.</p>	<p><b>HIST 10H History of California - HONORS 4 Units</b>                      (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.</p>
	<p><b>HIST 6CH History of Western Civilization - HONORS 4 Units</b>                      (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.</p>	<p><b>HIST 16A History of Africa to 1800 4 Units</b>                      (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.</p>
	<p><b>HIST 7A Colonial Latin American History 4 Units</b>                      (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.</p>	<p><b>HIST 16B History of Africa from 1800 to the Present 4 Units</b>                      (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.</p>
	<p><b>HIST 7B Modern Latin American History 4 Units</b>                      (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.</p>	<p><b>HIST 17A History of the United States to Early National Era 4 Units</b>                      (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.</p>
	<p><b>HIST 9 Women in American History 4 Units</b>                      (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.</p>	<p><b>HIST 17AH History of the United States to Early National Era - HONORS 4 Units</b>                      (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.</p>

<p><b>HIST 17B</b>      <b>History of the United States from 1800 to 1900</b>      <b>4 Units</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>  <i>(Not open to students with credit in HIST 17BH.)</i>                      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).</p>	<p><b>HIST 19B</b>      <b>History of Asian Civilization: China and Japan (19th - 21st Centuries)</b>      <b>4 Units</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      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.</p>
<p><b>HIST 17BH</b>      <b>History of the United States from 1800 to 1900 - HONORS</b>      <b>4 Units</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      (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.</p>	<p><b>HIST 28</b>      <b>Social Environmental History</b>      <b>4 Units</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      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.</p>
<p><b>HIST 17C</b>      <b>History of the United States from 1900 to the Present</b>      <b>4 Units</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      (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).</p>	<p><b>HIST 51X</b>      <b>Topics in California Political and Diplomatic History</b>      <b>2 Units</b></p> <p><i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>                      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.</p>
<p><b>HIST 17CH</b>      <b>History of the United States from 1900 to the Present - HONORS</b>      <b>4 Units</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      (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.</p>	<p><b>HIST 52X</b>      <b>Topics in History of Transportation in California</b>      <b>2 Units</b></p> <p><i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>                      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.</p>
<p><b>HIST 18A</b>      <b>African American History to 1865</b>      <b>4 Units</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      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.</p>	<p><b>HIST 53X</b>      <b>Topics in California Historical Sites and Monuments</b>      <b>2 Units</b></p> <p><i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>                      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.</p>
<p><b>HIST 18B</b>      <b>African American History Since 1865</b>      <b>4 Units</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      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.</p>	<p><b>HIST 54X</b>      <b>Special Topics: Significant Californians</b>      <b>2 Units</b></p> <p><i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>                      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.</p>
<p><b>HIST 19A</b>      <b>History of Asian Civilization: China and Japan (to the 19th Century)</b>      <b>4 Units</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      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.</p>	<p><b>HIST 55A</b>      <b>Racial and Ethnic Communities in California's History</b>      <b>2 Units</b></p> <p><i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>                      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.</p>
	<p><b>HIST 55B</b>      <b>California's Agricultural Heritage</b>      <b>2 Units</b></p> <p><i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>                      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.</p>
	<p><b>HIST 55C</b>      <b>Historical Surveys of California's Environments</b>      <b>2 Units</b></p> <p><i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>                      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.</p>
	<p><b>HIST 107X</b>      <b>Community History</b>      <b>2 Units</b></p> <p><i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>                      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.</p>

## H HUMAN DEVELOPMENT

### HUMA 10 Human Sexuality 4 Units

(See general education pages for the requirement this course meets.)

(Not open to students with credit in HUMA 10H.)

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 10H Human Sexuality - HONORS 4 Units

(See general education pages for the requirement this course meets.)

(Not open to students with credit in HUMA 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).

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. As an honors course the students will complete extra assignments to gain deeper insight in Human Development.

### 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 30 Understanding and Managing Stress 4 Units

(Formerly HUMA 50.)

(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.

**HUMI 77W Special Projects in Humanities 1 Unit****HUMI 77X 2 Units****HUMI 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 humanities that provide students with opportunities for increased depth of humanities scholarship and pedagogy.

**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 of 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.

<p><b>ICS 10</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      Advisory: EWRT 1A or EWRT 1AH or ESL 5.                      Four hours lecture (48 hours total per quarter).</p> <p>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.</p>	<p><b>An Introduction to African American Studies</b></p>	<p><b>4 Units</b></p>	<p><b>ICS 18A</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      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).</p> <p>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.</p>	<p><b>African American History to 1865</b></p>	<p><b>4 Units</b></p>
<p><b>ICS 11</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      Advisory: EWRT 1A or EWRT 1AH or ESL 5.                      Four hours lecture (48 hours total per quarter).</p> <p>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.</p>	<p><b>Sankofa: The Roots of the African American Experience</b></p>	<p><b>4 Units</b></p>	<p><b>ICS 18B</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      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).</p> <p>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.</p>	<p><b>African American History Since 1865</b></p>	<p><b>4 Units</b></p>
<p><b>ICS 12</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      Advisory: EWRT 1A or EWRT 1AH or ESL 5.                      Four hours lecture (48 hours total per quarter).</p> <p>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.</p>	<p><b>An Introduction to African American Literature</b></p>	<p><b>4 Units</b></p>	<p><b>ICS 19</b></p> <p><i>(Formerly ICS 57.)</i>                      (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).</p> <p>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.</p>	<p><b>Justice, Nature and the Geographies of Identity</b></p>	<p><b>4 Units</b></p>
<p><b>ICS 16A</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      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).</p> <p>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.</p>	<p><b>History of Africa to 1800</b></p>	<p><b>4 Units</b></p>	<p><b>ICS 20</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      Advisory: EWRT 1A or EWRT 1AH or ESL 5.                      Four hours lecture (48 hours total per quarter).</p> <p>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.</p>	<p><b>Asian American Experiences Past to Present</b></p>	<p><b>4 Units</b></p>
<p><b>ICS 16B</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      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).</p> <p>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.</p>	<p><b>History of Africa from 1800 to the Present</b></p>	<p><b>4 Units</b></p>	<p><b>ICS 21</b></p> <p><i>(Formerly ICS 90.)</i>                      (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).</p> <p>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.</p>	<p><b>Introduction to Pacific Islander History and Culture</b></p>	<p><b>4 Units</b></p>
<p><b>ICS 17</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      (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).</p> <p>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.</p>	<p><b>Critical Consciousness and Social Change</b></p>	<p><b>4 Units</b></p>	<p><b>ICS 22</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      Advisory: EWRT 1A or EWRT 1AH or ESL 5.                      Four hours lecture (48 hours total per quarter).</p> <p>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.</p>	<p><b>Contemporary Asian American Communities</b></p>	<p><b>4 Units</b></p>
<p><b>ICS 17H</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      (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).</p> <p>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.</p>	<p><b>Critical Consciousness and Social Change - HONORS</b></p>	<p><b>4 Units</b></p>	<p><b>ICS 24</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>                      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).</p> <p>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.</p>	<p><b>Asian Pacific American Literature</b></p>	<p><b>4 Units</b></p>

<p><b>ICS 25</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>(Also listed as POLI 15. Students may enroll in either department, but not both, for credit.)</i>  <i>Four hours lecture (48 hours total per quarter).</i></p>	<p><b>Grassroots Democracy: Race, Politics and the American Promise</b></p> <p>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.</p>	<p><b>4 Units</b></p>	<p><b>ICS 29</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>(Also listed as ADMJ 29. Students may enroll in either department, but not both, for credit.)</i>  <i>Four hours lecture (48 hours total per quarter).</i></p>	<p><b>Cultural Pluralism and American Law and Justice</b></p> <p>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.</p>	<p><b>4 Units</b></p>
<p><b>ICS 26</b></p> <p><i>(Formerly ICS 96.)</i>  <i>(See general education pages for the requirement this course meets.)</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>Four hours lecture (48 hours total per quarter).</i></p>	<p><b>Introduction to Lesbian, Gay, Bisexual, Transgender and Queer Studies</b></p> <p>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.</p>	<p><b>4 Units</b></p>	<p><b>ICS 30</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>Four hours lecture (48 hours total per quarter).</i></p>	<p><b>Introduction to Chicano/a and Latino/a Studies</b></p> <p>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.</p>	<p><b>4 Units</b></p>
<p><b>ICS 27</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>  <i>(Not open to students with credit in ICS 27H or POLI 17 or POLI 17H.)</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>(Also listed as POLI 17. Students may enroll in either department, but not both, for credit.)</i>  <i>Four hours lecture (48 hours total per quarter).</i></p>	<p><b>Grassroots Democracy: Leadership and Power</b></p> <p>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.</p>	<p><b>4 Units</b></p>	<p><b>ICS 31</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>Four hours lecture (48 hours total per quarter).</i></p>	<p><b>Chicano/a Culture</b></p> <p>Survey of the origins and development of Chicano/a culture with emphasis on the religions, philosophies, and lifestyles of the Chicano/a.</p>	<p><b>4 Units</b></p>
<p><b>ICS 27H</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>  <i>(Not open to students with credit in ICS 27 or POLI 17 or POLI 17H.)</i>  <i>(Admission into this course requires consent of the Honors Program Coordinator.)</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>(Also listed as POLI 17H. Students may enroll in either department, but not both, for credit.)</i>  <i>Four hours lecture (48 hours total per quarter).</i></p>	<p><b>Grassroots Democracy: Leadership and Power - HONORS</b></p> <p>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.</p>	<p><b>4 Units</b></p>	<p><b>ICS 32</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>Four hours lecture (48 hours total per quarter).</i></p>	<p><b>Chicano/a and Latino/a History</b></p> <p>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.</p>	<p><b>4 Units</b></p>
<p><b>ICS 28</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>(Also listed as HIST 28. Students may enroll in either department, but not both, for credit.)</i>  <i>Four hours lecture (48 hours total per quarter).</i></p>	<p><b>Social Environmental History</b></p> <p>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.</p>	<p><b>4 Units</b></p>	<p><b>ICS 33</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>Four hours lecture (48 hours total per quarter).</i></p>	<p><b>The Chicano/a and Latino/a and the Arts</b></p> <p>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.</p>	<p><b>4 Units</b></p>
<p><b>ICS 35</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>Four hours lecture (48 hours total per quarter).</i></p>	<p><b>Chicano/a, Latino/a Literature</b></p> <p>A survey of Chicano/a, Latino/a literature in its various forms, with emphasis on contemporary authors, from the 1940s to the present.</p>	<p><b>4 Units</b></p>	<p><b>ICS 36</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>(Also listed as POLI 16. Students may enroll in either department, but not both, for credit.)</i>  <i>Four hours lecture (48 hours total per quarter).</i></p>	<p><b>Grassroots Democracy: Social Movements Since the 1960s</b></p> <p>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 conjunction of ecology, gender, race, ethnicity, culture, class, and sexual orientation in contemporary U.S. politics.</p>	<p><b>4 Units</b></p>
<p><b>ICS 37</b></p> <p><i>(See general education pages for the requirement this course meets.)</i>  <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>  <i>Four hours lecture (48 hours total per quarter).</i></p>	<p><b>Ancient Peoples of Mesoamerica</b></p> <p>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.</p>	<p><b>4 Units</b></p>			

**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, prophecies, 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 HUM1 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.

### 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.

## 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.

## 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; F/TV 20.

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.

<b>JOUR 61B</b>	<b>Student News Media Production II</b>	<b>3 Units</b>
<i>Prerequisite: JOUR 61A.</i>		
<i>Nine hours laboratory (108 hours total per quarter).</i>		
Practical experience in creating longer and complex news, feature and visual content as a member of the college newspaper, magazine or online media staff.		
<b>JOUR 61C</b>	<b>Editorial Leadership for Student News Media</b>	<b>3 Units</b>
<i>Prerequisite: JOUR 61A.</i>		
<i>Nine hours laboratory (108 hours total per quarter).</i>		
Practical experience in planning, assigning, editing and placing print, video and/or web content as members of the college newspaper, magazine or media staff.		
<b>JOUR 62A</b>	<b>Freelance Reporting for Student Media</b>	<b>1 Unit</b>
<i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>		
<i>Three hours laboratory (36 hours total per quarter).</i>		
Practical experience contributing as a freelance reporter to the college newspaper and/or digital media as a reporter.		
<b>JOUR 62B</b>	<b>Freelance Photography for Student Media</b>	<b>1 Unit</b>
<i>Advisory: PHTG 4.</i>		
<i>Three hours laboratory (36 hours total per quarter).</i>		
Practical experience contributing as a freelance photographer to the college newspaper and/or digital media as a reporter.		
<b>JOUR 62C</b>	<b>Freelance Video Production for Student Media</b>	<b>1 Unit</b>
<i>Advisory: F/TV 20.</i>		
<i>Three hours laboratory (36 hours total per quarter).</i>		
Practical experience contributing as a freelance video reporter or producer for the college news media.		
<b>JOUR 62D</b>	<b>Freelance Digital Production for Student Media</b>	<b>1 Unit</b>
<i>Requisite/Advisory: None.</i>		
<i>Three hours laboratory (36 hours total per quarter).</i>		
Practical experience contributing as a freelance digital content producer to the college news media.		
<b>JOUR 62E</b>	<b>Freelance Graphic Production for Student Media</b>	<b>1 Unit</b>
<i>Advisory: ARTS 53E.</i>		
<i>Three hours laboratory (36 hours total per quarter).</i>		
Practical experience contributing as a graphic news producer to the college newspaper and/or digital media as a reporter.		
<b>JOUR 62F</b>	<b>Freelance Copy Editing for Student Media</b>	<b>1 Unit</b>
<i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>		
<i>Three hours laboratory (36 hours total per quarter).</i>		
Practical experience contributing as a copy editor for the college newspaper and/or digital media.		
<b>JOUR 77W</b>	<b>Special Projects in Journalism</b>	<b>1 Unit</b>
<b>JOUR 77X</b>		<b>2 Units</b>
<b>JOUR 77Y</b>		<b>3 Units</b>
<b>JOUR 77Z</b>		<b>4 Units</b>
<i>Prerequisite: Consent of instructor and division dean.</i>		
<i>Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).</i>		
Special research, writing or study projects in Journalism as determined in consultation with the department chair.		
(Complexity of project determines number of units assigned.)		
<b>JOUR 78W</b>	<b>Special Topics in Journalism</b>	<b>1 Unit</b>
<b>JOUR 78X</b>		<b>2 Units</b>
<b>JOUR 78Y</b>		<b>3 Units</b>
<b>JOUR 78Z</b>		<b>4 Units</b>
<i>Requisite/Advisory: None.</i>		
<i>One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).</i>		
Intensive study and analysis of a special topic in Journalism. Subjects vary.		
(Complexity of topic determines number of units assigned.)		
<b>JOUR 80</b>	<b>Introduction to Public Relations</b>	<b>4 Units</b>
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Four hours lecture (48 hours total per quarter).</i>		
Explores the principles, history, development 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.		
<b>JOUR 90</b>	<b>Introduction to Multimedia Reporting</b>	<b>4 Units</b>
<i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>		
<i>Four hours lecture (48 hours total per quarter).</i>		
Provides an introduction to multimedia storytelling with a journalism emphasis. Explores use of video, photos, audio, animation and text to convey interactive news and feature stories through the internet and other electronic media. Includes basic journalism concepts of ethics and law, critical thinking, research and synthesis.		

## KINESIOLOGY

<b>KNES 1A</b>	<b>Novice Swimming</b>	<b>½ Unit</b>
<i>(Formerly PE 26A.)</i>		
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Two hours laboratory (24 hours total per quarter).</i>		
<i>(This course is included in the Aquatics Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
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.		
<b>KNES 1B</b>	<b>Beginning Swimming</b>	<b>½ Unit</b>
<i>(Formerly PE 26B.)</i>		
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: KNES 1A or pass swimming placement test which consists of swimming 25 yards in deep water.</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Two hours laboratory (24 hours total per quarter).</i>		
<i>(This course is included in the Aquatics Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
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.		
<b>KNES 1C</b>	<b>Intermediate Swimming</b>	<b>½ Unit</b>
<b>KNES 1CX</b>		<b>1 Unit</b>
<i>(Formerly PE 26C and PE 26CX respectively.)</i>		
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: KNES 1B or equivalent swimming skills.</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>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).</i>		
<i>(This course is included in the Aquatics Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
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.		
<b>KNES 1D</b>	<b>Advanced Swimming</b>	<b>½ Unit</b>
<b>KNES 1DX</b>		<b>1 Unit</b>
<i>(Formerly PE 26D and PE 26DX respectively.)</i>		
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: KNES 1C or KNES 1CX, or equivalent swimming skills.</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>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).</i>		
<i>(This course is included in the Aquatics Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
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.		
<b>KNES 2A</b>	<b>Aerobic Swimming</b>	<b>½ Unit</b>
<b>KNES 2AX</b>		<b>1 Unit</b>
<i>(Formerly PE 6G and PE 6GX respectively.)</i>		
<i>(See general education pages for the requirement this course meets.)</i>		
<i>Prerequisite: KNES 1C or KNES 1CX, or permission of instructor.</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>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).</i>		
<i>(This course is included in the Aquatics Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
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.		

<b>K</b>	<b>KNES 2B</b>	<b>Deep Water Running</b>	<b>½ Unit</b>	<b>KNES 7A</b>	<b>Step Aerobics</b>	<b>½ Unit</b>
	<b>KNES 2BX</b>		<b>1 Unit</b>	<b>KNES 7AX</b>		<b>1 Unit</b>
	(Formerly PE 6F and PE 6FX respectively.) (See general education pages for the requirement this course meets.) Prerequisite: KNES 1C or KNES 1CX or permission from 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 Kinesiology 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.			(Formerly PE 6S and PE 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.		
	<b>KNES 5A</b>	<b>Indoor Cycling</b>	<b>½ Unit</b>	<b>KNES 7D</b>	<b>Latin Infused Aerobics</b>	<b>½ Unit</b>
	<b>KNES 5AX</b>		<b>1 Unit</b>	<b>KNES 7DX</b>		<b>1 Unit</b>
	(Formerly PE 3 and PE 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.			(Formerly PE 6Z and PE 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.		
	<b>KNES 5B</b>	<b>High Intensity Indoor Cycling</b>	<b>½ Unit</b>	<b>KNES 7G</b>	<b>Aerobic Exercise Hi-Low Impact</b>	<b>½ Unit</b>
	<b>KNES 5BX</b>		<b>1 Unit</b>	<b>KNES 7GX</b>		<b>1 Unit</b>
	(Formerly PE 3B and PE 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 Kinesiology 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 the student will develop core endurance and strength. Students will be able to assess and design a personal workout program for an indoor program of cycling which can be modified to outdoor trails.			(Formerly PE 6R and PE 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.		
	<b>KNES 5C</b>	<b>Outdoor Cycling</b>	<b>1 Unit</b>	<b>KNES 7H</b>	<b>Aerobic Exercise Low Impact</b>	<b>½ Unit</b>
	<b>KNES 5CX</b>		<b>1 ½ Units</b>			
	(Formerly PE 3AX and PE 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.			(Formerly PE 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.		
	<b>KNES 6A</b>	<b>Aerobic Power Walking</b>	<b>½ Unit</b>	<b>KNES 9A</b>	<b>Interactive Cardiovascular Fitness and Activity Tracking 1</b>	<b>½ Unit</b>
	<b>KNES 6AX</b>		<b>1 Unit</b>	<b>KNES 9AX</b>		<b>1 Unit</b>
	(Formerly PE 6H and PE 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.			(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 kinesiology through an introduction to online fitness. Technology to verify performance via self-reported cardiovascular exercise, assignments, testing and discussion will be utilized. Students will learn to improve fitness through the use of cardiovascular exercise. Basic exercise physiology, nutritional concepts and various components of fitness will be discussed. Students are required to have an instructor-approved tracking application installed on a GPS-enabled device or a fitness tracking device.		

**KNES 9B Interactive Cardiovascular Fitness and Activity Tracking 2** **1/2 Unit****KNES 9BX** **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.

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 kinesiology through online fitness. This is an intermediate level online fitness course that will utilize technology to verify performance via self-reported cardiovascular exercise, assignments, testing and discussion. Students will learn to improve fitness through the use of cardiovascular exercise. Basic exercise physiology, nutritional concepts and various components of fitness will be discussed. Students are required to have an instructor-approved tracking application installed on a GPS-enabled device or a fitness tracking device.

**KNES 11A Cardio Kick** **1/2 Unit**  
**KNES 11AX** **1 Unit**

(Formerly PE 6K and PE 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** **1/2 Unit**  
**KNES 12AX** **1 Unit**

(Formerly PE 2K and PE 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** **1/2 Unit**  
**KNES 12BX** **1 Unit**

(Formerly PE 2L and PE 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** **1/2 Unit**  
**KNES 12DX** **1 Unit**

(Formerly PE 2A and PE 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** **1/2 Unit**  
**KNES 12EX** **1 Unit**

(Formerly PE 2B and PE 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** **1/2 Unit**  
**(Formerly PE 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** **1/2 Unit**  
**KNES 12HX** **1 Unit**

(Formerly PE 2Q and PE 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** **1/2 Unit**  
**KNES 12JX** **1 Unit**

(Formerly PE 2R and PE 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.

<b>K</b>	<b>KNES 15A</b> <b>Cross Training</b> $\frac{1}{2}$ Unit	<b>KNES 16B</b> <b>Spin/Swim Fitness</b> 1 Unit
	<b>KNES 15AX</b> <b>KNES 15AX</b> 1 Unit	<b>KNES 16BX</b> <b>KNES 16BX</b> 1 ½ Units
	<i>(Formerly PE 6B and PE 6BX respectively.)</i>	<i>(Formerly PE 5AX and PE 5AY respectively.)</i>
	<i>(See general education pages for the requirement this course meets.)</i>	<i>(See general education pages for the requirement this course meets.)</i>
	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>
	<i>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).</i>	<i>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).</i>
	<i>(This course is included in the Cross Training Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>	<i>(This course is included in the Cross Training Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>
	<i>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.</i>	<i>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.</i>
	<b>KNES 15C</b> <b>Total Fitness</b> $\frac{1}{2}$ Unit	<b>KNES 17A</b> <b>Plyometric Conditioning 1</b> $\frac{1}{2}$ Unit
	<b>KNES 15CX</b> <b>KNES 15CX</b> 1 Unit	<b>KNES 17AX</b> <b>KNES 17AX</b> 1 Unit
<i>(Formerly PE 8 and PE 8X respectively.)</i>	<i>(See general education pages for the requirement this course meets.)</i>	
<i>(See general education pages for the requirement this course meets.)</i>	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>	
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>	<i>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).</i>	
<i>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).</i>	<i>(This course is included in the Cross Training Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>	
<i>(This course is included in the Cross Training Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>	<i>An introduction to the discipline of kinesiology through plyometric conditioning, including an historical and global examination of plyometric exercise and conditioning. This introductory course is designed to promote physiological development of strength, speed and power through a series of leaping, bounding and hopping exercises to effectively improve coordination and agility.</i>	
<i>An introduction to the discipline of Kinesiology 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.</i>		
<b>KNES 15E</b> <b>Cardiovascular and Strength Training</b> $\frac{1}{2}$ Unit	<b>KNES 19A</b> <b>Strength Development</b> $\frac{1}{2}$ Unit	
<b>KNES 15EX</b> <b>KNES 15EX</b> 1 Unit	<b>KNES 19AX</b> <b>KNES 19AX</b> 1 Unit	
<b>KNES 15EY</b> <b>KNES 15EY</b> 1 ½ Units	<i>(Formerly PE 4 and PE 4X respectively.)</i>	
<i>(Formerly PE 9, 9X and 9Y respectively.)</i>	<i>(See general education pages for the requirement this course meets.)</i>	
<i>(See general education pages for the requirement this course meets.)</i>	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>	
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>	<i>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).</i>	
<i>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).</i>	<i>(This course is included in the Strength Development Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>	
<i>(This course is included in the Cross Training Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>	<i>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.</i>	
<i>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.</i>		
<b>KNES 15F</b> <b>High Intensity Interval Training - HIIT</b> $\frac{1}{2}$ Unit	<b>KNES 19B</b> <b>Strength Development 2</b> $\frac{1}{2}$ Unit	
<b>KNES 15FX</b> <b>KNES 15FX</b> 1 Unit	<b>KNES 19BX</b> <b>KNES 19BX</b> 1 Unit	
<i>(See general education pages for the requirement this course meets.)</i>	<i>(See general education pages for the requirement this course meets.)</i>	
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>	
<i>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).</i>	<i>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).</i>	
<i>(This course is included in the Cross Training Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>	<i>(This course is included in the Strength Development Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>	
<i>An introduction to the field of kinesiology through the practice of high intensity interval training. Fitness training will focus on heart rate based interval training. Resting heart rate, aerobic peak and reserve rates will be measured for elevated fitness training. Basic concepts of physiology, cardiovascular, muscular strength and endurance, and nutritional concepts will be discussed.</i>	<i>An introduction to the discipline of kinesiology through strength training at an intermediate level. 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.</i>	
<b>KNES 16A</b> <b>Fit Camp</b> $\frac{1}{2}$ Unit	<b>KNES 19D</b> <b>Resistance Training 1</b> $\frac{1}{2}$ Unit	
<b>KNES 16AX</b> <b>KNES 16AX</b> 1 Unit	<b>KNES 19DX</b> <b>KNES 19DX</b> 1 Unit	
<b>KNES 16AY</b> <b>KNES 16AY</b> 1 ½ Units	<i>(Formerly PE 4Y and PE 4YX respectively.)</i>	
<i>(Formerly PE 6U, 6UX and 6UY respectively.)</i>	<i>(See general education pages for the requirement this course meets.)</i>	
<i>(See general education pages for the requirement this course meets.)</i>	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>	
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>	<i>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).</i>	
<i>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).</i>	<i>(This course is included in the Strength Development Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>	
<i>(This course is included in the Cross Training Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>	<i>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.</i>	
<i>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.</i>		

<p><b>KNES 19E Body Sculpting</b> <span style="float: right;"><b>½ Unit</b></span>  <b>KNES 19EX</b> <span style="float: right;"><b>1 Unit</b></span>                      (Formerly PE 6D and PE 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 Kinesiology. It includes an historical examination of core strengthening. Body sculpt conditioning is an integrated approach that focuses on developing the muscles of the entire body. Through body sculpting the student will achieve ultimate fitness by focusing on a program of strength, balance, agility and flexibility. Concentration will be on muscles of the entire body. Resistance training, medicine balls, stability balls, and the body bar will be used in conjunction with proper breathing, posture and muscle awareness.</p>	<p><b>KNES 22C Power Yoga</b> <span style="float: right;"><b>½ Unit</b></span>  <b>KNES 22CX</b> <span style="float: right;"><b>1 Unit</b></span> <span style="float: right;"><b>K</b></span>                      (Formerly PE 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 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.</p>
<p><b>KNES 19G Core Conditioning</b> <span style="float: right;"><b>½ Unit</b></span>  <b>KNES 19GX</b> <span style="float: right;"><b>1 Unit</b></span>                      (Formerly PE 6V and PE 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.</p>	<p><b>KNES 22D Flow Yoga</b> <span style="float: right;"><b>½ Unit</b></span>  <b>KNES 22DX</b> <span style="float: right;"><b>1 Unit</b></span>                      (Formerly PE 2E and PE 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.</p>
<p><b>KNES 20A Circuit Training 1</b> <span style="float: right;"><b>½ Unit</b></span>  <b>KNES 20AX</b> <span style="float: right;"><b>1 Unit</b></span>                      (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 beginning level circuit training. An emphasis on varying exercises that are grouped and performed to enhance cardiovascular and muscular strength and endurance development. Basic physiological, nutritional, flexibility and body composition concepts will also be discussed.</p>	<p><b>KNES 22E Yoga/Pilates Combo</b> <span style="float: right;"><b>½ Unit</b></span>  <b>KNES 22EX</b> <span style="float: right;"><b>1 Unit</b></span>                      (Formerly PE 2F and PE 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.</p>
<p><b>KNES 22A Hatha Yoga</b> <span style="float: right;"><b>½ Unit</b></span>  <b>KNES 22AX</b> <span style="float: right;"><b>1 Unit</b></span>                      (Formerly PE 2Y and PE 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 Kinesiology through the study of yoga, including an historical examination and key philosophical concepts of the yoga tradition and the evolution of yoga throughout the ages. Students will practice simple yoga poses for the mind, body, mindfulness, breath awareness and relaxation techniques will be covered.</p>	<p><b>KNES 25A Stretching</b> <span style="float: right;"><b>½ Unit</b></span>  <b>KNES 25AX</b> <span style="float: right;"><b>1 Unit</b></span>                      (Formerly PE 11 and PE 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 Kinesiology 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.</p>
<p><b>KNES 22B Yoga for Relaxation</b> <span style="float: right;"><b>½ Unit</b></span>  <b>KNES 22BX</b> <span style="float: right;"><b>1 Unit</b></span>                      (Formerly PE 2G and PE 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.</p>	

<b>K</b>	<b>KNES 25B</b>	<b>Active Isolated Stretching</b>	<b>½ Unit</b>	<b>KNES 30A</b>	<b>Beginning Golf</b>	<b>½ Unit</b>
	<b>KNES 25BX</b>		<b>1 Unit</b>			
	(Formerly PE 11C and PE 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.)			(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 Kinesiology 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.		
	An introduction to the discipline of Kinesiology 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.			An introduction to the discipline of Kinesiology 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.		
	<b>KNES 26A</b>	<b>Basic Pilates Mat Exercise</b>	<b>½ Unit</b>	<b>KNES 30B</b>	<b>Advanced Beginning Golf</b>	<b>½ Unit</b>
	<b>KNES 26AX</b>		<b>1 Unit</b>	<b>KNES 30BX</b>		<b>1 Unit</b>
	(Formerly PE 2P and PE 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.)			(Formerly PE 16D and PE 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 Kinesiology 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 concentration, mind relaxation techniques, core strength and flexibility. Includes basic exercise physiology concepts, and nutrition.			An introduction to the discipline of Kinesiology 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.		
	<b>KNES 26B</b>	<b>Integrated Pilates Mat Exercise</b>	<b>½ Unit</b>	<b>KNES 30C</b>	<b>Intermediate Golf</b>	<b>½ Unit</b>
	<b>KNES 26BX</b>		<b>1 Unit</b>			
	(Formerly PE 2T and PE 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.)			(Formerly PE 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 Kinesiology 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.			An introduction to the discipline of Kinesiology 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.		
	<b>KNES 29A</b>	<b>Fencing Level 1</b>	<b>½ Unit</b>	<b>KNES 31A</b>	<b>Beginning Badminton</b>	<b>½ Unit</b>
				<b>KNES 31AX</b>		<b>1 Unit</b>
	(Formerly PE 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.)			(Formerly PE 13A and PE 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 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.			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.		
	<b>KNES 29B</b>	<b>Fencing Level 2</b>	<b>½ Unit</b>	<b>KNES 31B</b>	<b>Intermediate Badminton</b>	<b>½ Unit</b>
				<b>KNES 31BX</b>		<b>1 Unit</b>
	(Formerly PE 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.)			(Formerly PE 13B and PE 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.)		
	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.			An introduction to the discipline of Physical Education through the sport of badminton. Includes a global and historical examination of the sport, rules, equipment, facilities and etiquette. Basic exercise physiology, nutrition, fundamentals of strength development and flexibility relative to playing at an intermediate level will be included. The course will encourage an understanding of how to adapt game strategies and conventional techniques to one's needs and abilities based on age, gender and environmental conditions, personal strengths and weaknesses.		

<p><b>KNES 31C</b>      <b>Advanced Badminton</b>      <math>\frac{1}{2}</math> Unit  <b>KNES 31CX</b>      <b>1 Unit</b>                      (Formerly PE 13C and PE 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.</p>	<p><b>KNES 32D</b>      <b>Advanced Tennis</b>      <math>\frac{1}{2}</math> Unit  <b>KNES 32DX</b>      <b>1 Unit</b>                      (Formerly PE 21D and PE 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.</p>	<p><b>KNES 32A</b>      <b>Beginning Tennis</b>      <math>\frac{1}{2}</math> Unit  <b>KNES 32AX</b>      <b>1 Unit</b>                      (Formerly PE 21A and PE 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.</p>	<p><b>KNES 33A</b>      <b>Multi-Sport Fitness</b>      <math>\frac{1}{2}</math> Unit  <b>KNES 33AX</b>      <b>1 Unit</b>  <b>KNES 33AY</b>      <b>1 ½ Units</b>                      (Formerly PE 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 Kinesiology through multi-sport fitness. An historical examination of multi-sport training methodology to include triathlon training. The student will strive for ultimate fitness through a program of cardiovascular exercise including interval training, strengthening exercises and flexibility training both indoors and outdoors with an emphasis on aquatic fitness. Strength, cardiovascular fitness and flexibility will be monitored and assessed throughout the term.</p>	<p><b>KNES 32B</b>      <b>Advanced Beginning Tennis</b>      <math>\frac{1}{2}</math> Unit  <b>KNES 32BX</b>      <b>1 Unit</b>                      (Formerly PE 21B and PE 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 discipline of Kinesiology through the rules, equipment, facilities, etiquette, and basic strokes - volley, lob and overhead and with further development of the forehand, backhand, serve. Instructors will emphasize conventional skill development, but also encourage adaptations based on physical ability, age, strength, gender and/or genetics. A brief historical examination of how the game of tennis has changed due to the influence of individual men, women, and children, of various countries, and their styles of play or strategies. Students will review and apply basic exercise physiology, nutrition, flexibility and strength concepts to improve their physical condition in order to play tennis at a more advanced level.</p>	<p><b>KNES 36A</b>      <b>Team Sport - Basketball</b>      <math>\frac{1}{2}</math> Unit  <b>KNES 36AX</b>      <b>1 Unit</b>                      (Formerly PE 1H and PE 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.</p>
<p><b>KNES 32C</b>      <b>Intermediate Tennis</b>      <math>\frac{1}{2}</math> Unit  <b>KNES 32CX</b>      <b>1 Unit</b>                      (Formerly PE 21C and PE 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.)                      An introduction to the discipline of Kinesiology through tennis. Development of consistency, accuracy and control for forehand, backhand ground-strokes, serve, volley, lob and overhead skills utilizing fundamental theories of physics. Introducing elements of changing the dynamics of the game with spins and drop shots or by approaching the net; basic singles and doubles strategies. A brief historical examination of how the game of tennis has changed due to the influence of individual men, women, and children, of various countries, and their styles of play or strategies. Students will review and apply basic exercise physiology, nutrition, flexibility and strength concepts to improve their physical condition in order to play tennis at a more advanced level.</p>	<p><b>KNES 37A</b>      <b>Soccer</b>      <math>\frac{1}{2}</math> Unit  <b>KNES 37AX</b>      <b>1 Unit</b>                      (Formerly PE 33A and PE 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.</p>				

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<b>K</b>	<b>KNES 37B Soccer Level 2</b>	<b>½ Unit</b>	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.
	<b>KNES 37BX</b>	<b>1 Unit</b>	
	<i>(Formerly PE 33D and PE 33DX respectively.)</i>		
	<i>(See general education pages for the requirement this course meets.)</i>		
	<i>Prerequisite: KNES 37A or KNES 37AX, or equivalent skills.</i>		
	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
	<i>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).</i>		
	<i>(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
	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.		
	<b>KNES 37C Soccer Level 3</b>	<b>½ Unit</b>	<b>KNES 38B Futsal Level 2</b>
	<b>KNES 37CX</b>	<b>1 Unit</b>	
	<i>(Formerly PE 33E and PE 33EX respectively.)</i>		
	<i>(See general education pages for the requirement this course meets.)</i>		
	<i>Prerequisite: KNES 37B or KNES 37BX, or equivalent skills.</i>		
	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
	<i>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).</i>		
	<i>(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
	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.		
	<b>KNES 37D Soccer Level 4</b>	<b>½ Unit</b>	<b>KNES 38C Futsal Level 3</b>
	<b>KNES 37DX</b>	<b>1 Unit</b>	
	<i>(Formerly PE 33F and PE 33FX respectively.)</i>		
	<i>(See general education pages for the requirement this course meets.)</i>		
	<i>Prerequisite: KNES 37C or KNES 37CX, or equivalent skills.</i>		
	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
	<i>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).</i>		
	<i>(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
	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.		
	<b>KNES 37E Indoor Soccer</b>	<b>½ Unit</b>	<b>KNES 38D Futsal Level 4</b>
	<b>KNES 37EX</b>	<b>1 Unit</b>	
	<i>(Formerly PE 33I.)</i>		
	<i>(See general education pages for the requirement this course meets.)</i>		
	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
	<i>Two hours laboratory (24 hours total per quarter).</i>		
	<i>(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
	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.		
	<b>KNES 38A Futsal Level 1</b>	<b>½ Unit</b>	<b>KNES 39A Volleyball Level 1</b>
	<b>KNES 38AX</b>	<b>1 Unit</b>	
	<i>(Formerly PE 33J and PE 33JX respectively.)</i>		
	<i>(See general education pages for the requirement this course meets.)</i>		
	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
	<i>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).</i>		
	<i>(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
	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		
	<b>KNES 38B Futsal Level 2</b>	<b>½ Unit</b>	<b>KNES 39B Volleyball Level 2</b>
	<b>KNES 38BX</b>	<b>1 Unit</b>	
	<i>(Formerly PE 33K and PE 33KX respectively.)</i>		
	<i>(See general education pages for the requirement this course meets.)</i>		
	<i>Prerequisite: KNES 38A or KNES 38AX, or equivalent skills.</i>		
	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
	<i>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).</i>		
	<i>(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
	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.		
	<b>KNES 38C Futsal Level 3</b>	<b>½ Unit</b>	<b>KNES 39X Volleyball Level 1</b>
	<b>KNES 38CX</b>	<b>1 Unit</b>	
	<i>(Formerly PE 33L and PE 33LX respectively.)</i>		
	<i>(See general education pages for the requirement this course meets.)</i>		
	<i>Prerequisite: KNES 38B or KNES 38BX, or equivalent skills.</i>		
	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
	<i>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).</i>		
	<i>(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
	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.		
	<b>KNES 38D Futsal Level 4</b>	<b>½ Unit</b>	<b>KNES 39B Volleyball Level 2</b>
	<b>KNES 38DX</b>	<b>1 Unit</b>	
	<i>(Formerly PE 33M and PE 33MX respectively.)</i>		
	<i>(See general education pages for the requirement this course meets.)</i>		
	<i>Prerequisite: KNES 38C or KNES 38CX, or equivalent skill.</i>		
	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
	<i>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).</i>		
	<i>(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
	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.		
	<b>KNES 39A Volleyball Level 1</b>	<b>½ Unit</b>	<b>KNES 39B Volleyball Level 2</b>
	<b>KNES 39AX</b>	<b>1 Unit</b>	
	<i>(Formerly PE 19A and PE 19AX respectively.)</i>		
	<i>(See general education pages for the requirement this course meets.)</i>		
	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
	<i>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).</i>		
	<i>(This course is included in the Team Sports Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>		
	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.		
	<b>KNES 39B Volleyball Level 2</b>	<b>½ Unit</b>	<b>KNES 39BX</b>
	<b>KNES 39BX</b>	<b>1 Unit</b>	
	<i>(Formerly PE 19B and PE 19BX respectively.)</i>		
	<i>(See general education pages for the requirement this course meets.)</i>		
	<i>Prerequisite: KNES 39A or KNES 39AX, or consent of instructor.</i>		
	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
	<i>Two hours laboratory for the one-half unit course (24 hours total per quarter);</i>		

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 PE 19C and PE 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 PE 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 40A Flag Football 1** ½ Unit  
**KNES 40AX** 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.  
 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 kinesiology through the game of flag football. This is an introductory course designed to give students the opportunity to review and practice the basic fundamental skills relative to the game of flag football. Basic physiology, nutrition, strength, and flexibility concepts will be discussed.

**KNES 41A Ultimate Frisbee 1** ½ Unit  
**KNES 41AX** 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.  
 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 kinesiology through the sport of Ultimate Frisbee. Includes a global perspective and the contributions of both male and female Ultimate Frisbee experts and players. Emphasis will be placed in psychomotor, cognitive, and effective domains of the sport. There will be an introduction to the laws of the game, equipment, fair play, flexibility, nutrition, and the nuances of the game.

**KNES 42A Motor Skills Assessment and Development** ½ Unit

**KNES 42AX** 1 Unit

(Formerly PE 7A and PE 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 Kinesiology 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 **K**

**KNES 42BX** 1 Unit

(Formerly PE 7B and PE 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 Kinesiology 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 PE 7C and PE 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 Kinesiology 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 PE 7D and PE 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 Kinesiology 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 PE 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 PE 35.)  
 Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; PE 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 PE 70A.)  
 (See general education pages for the requirement this course meets.)  
 Corequisite: 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.

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**KNES 50AL Lifetime Wellness and Fitness Center Laboratory 1 Unit**

(Formerly PE 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 Fitness and Dietary Wellness 2 Units**

(Formerly PE 79.)  
(See general education pages for the requirement this course meets.)  
Corequisite: 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 Fitness and Dietary Wellness Laboratory 1 Unit**

(Formerly PE 79A.)  
(See general education pages for the requirement this course meets.)  
Corequisite: 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 PE 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 PE 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 PE 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 PE 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 PE 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 PE 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 PE 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 PE 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, Hangeul. 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**

Corequisite: 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 Reading, Writing and Researching Social Justice Issues 1 Unit**

Corequisite: SOC 20.  
One hour lecture (12 hours total per quarter).  
In-depth writing and research on issues of social justice.

**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.

**LART 250 Academic Reading and Writing 5 Units**

Credit course - Does not apply to De Anza Associate degree.  
Prerequisite: A qualifying placement result.  
Corequisite: EWRT 1A or EWRT 1AH.  
Five hours lecture (60 hours total per quarter).  
Pass-No Pass (P-NP) course.  
Integration of reading and writing skills necessary for success in EWRT 1A or EWRT 1AH. Emphasis on evaluation, analysis, synthesis, questioning, and critical inquiry of assigned readings and in essays in this course and in the target course, EWRT 1A or EWRT 1AH. Immersion in the reading and writing process with opportunities for just-in-time instruction on strategies and skills to succeed in transfer-level curriculum.

## 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.

## LEARNING STRATEGIES

*(The Learning Strategies Department was formerly the Guidance Department.)*

**LS 50 Student Success Strategies 4 Units**

(Formerly GUID 202.)  
Credit course - Does not apply to De Anza Associate degree.  
Requisite/Advisory: None.  
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.

**LS 207 Educational Diagnostic Center (EDC) Introductory Writing and Grammar Skills 4 Units**

(Formerly GUID 207.)

Credit course - Does not apply to De Anza Associate degree.

Advisory: 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.

**LS 209 Arithmetic Skills and Strategies 4 Units**

(Formerly GUID 209.)

Credit course - Does not apply to De Anza Associate degree.

Advisory: 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.

**LS 211 Algebra Skills I 4 Units**

(Formerly GUID 211.)

Credit course - Does not apply to De Anza Associate degree.

Advisory: 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.

## 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 Internet 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 Internet.

**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 instruct students how to locate, identify, and critically evaluate information sources on the Internet that are not easily accessible.

## 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 MSG 50, Introduction to Massage Therapy. Details are available on the De Anza College Massage Therapy website.

**MASG 50A Introduction to Massage** **3 Units**  
 (Formerly PE 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.  
 Two hours lecture, three hours laboratory (60 hours total per quarter).  
 Introduction to the discipline 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** **4 Units**  
 (Formerly PE 54A.)  
 Prerequisite: MASG 50A or technical proficiency suitable to the course level or admission by instructor approval; and submission of an FHDA Live Scan receipt to the Program Assistant/Physical Education Division Office before the end of the first week of the quarter.  
 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).  
 Further study and practice utilizing the principles of massage therapy.

**MASG 50C Sports Massage** **3 Units**  
 (Formerly PE 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 PE 54C.)  
 Prerequisite: MASG 50C (may be taken concurrently).  
 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 PE 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 PE 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 PE 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 PE 54H, 54J and 54K respectively.)  
 Prerequisite: MASG 50B or consent of 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).  
 Students shall work under the supervision of Adaptive Physical Education instructors. Schedule(s) are determined by agreement between student and Adaptive Physical Education intern supervisor. The student is expected to participate through the end of the assigned quarter.

**MASG 55A Massage Therapy Teacher's Assistant Internship** **1 Unit**

**MASG 55B** **2 Units**  
**MASG 55C** **3 Units**  
 (Formerly PE 54L, 54M and 54N respectively.)  
 Prerequisite: Successful completion of MASG 50B 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 PE 54P, 54Q and 54R respectively.)  
 Prerequisite: Successful completion of 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 or MATH 43H (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 or MATH 43H (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.

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**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.)  
 (Not open to students with credit in MATH 2AH.)  
 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 2AH Differential Equations - HONORS 5 Units**  
 (See general education pages for the requirement this course meets.)  
 (Not open to students with credit in MATH 2A.)  
 (Admission into this course requires consent of the Honors Program Coordinator.)  
 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. As an honors course the students will be expected to complete extra assignments to gain deeper insight in differential equations.

**MATH 2B Linear Algebra 5 Units**  
 (See general education pages for the requirement this course meets.)  
 (Not open to students with credit in MATH 2BH.)  
 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 2BH Linear Algebra - HONORS 5 Units**  
 (See general education pages for the requirement this course meets.)  
 (Not open to students with credit in MATH 2B.)  
 (Admission into this course requires consent of the Honors Program Coordinator.)  
 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. As an honors course the students will be expected to complete extra assignments to gain deeper insight into linear algebra.

**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, 41 or 41H.  
 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 private universities.

**MATH 22 Discrete Mathematics 5 Units**  
 (See general education pages for the requirement this course meets.)  
 Prerequisite: MATH 43 or MATH 43H 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.)  
 (Not open to students with credit in MATH 41H.)  
 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 41H Precalculus I: Theory of Functions - HONORS 5 Units**  
 (See general education pages for the requirement this course meets.)  
 (Not open to students with credit in MATH 41.)  
 (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 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. As an honors course, students will be expected to complete extra assignments to gain deeper insight in precalculus.

**MATH 42 Precalculus II: Trigonometric Functions 5 Units**  
 (See general education pages for the requirement this course meets.)  
 (Not open to students in MATH 42H.)  
 Prerequisite: MATH 41 or MATH 41H (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 42H Precalculus II: Trigonometric Functions - HONORS 5 Units**  
 (See general education pages for the requirement this course meets.)  
 (Not open to students with credit in MATH 42.)  
 (Admission into this course requires consent of the Honors Program Coordinator.)  
 Prerequisite: MATH 41 or MATH 41H (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. As an honors course, students will be expected to complete extra assignments to gain deeper insight in precalculus.

**MATH 43 Precalculus III: Advanced Topics 5 Units**  
 (See general education pages for the requirement this course meets.)  
 (Not open to students with credit in MATH 43H.)  
 Prerequisite: MATH 41 (or MATH 41H) and MATH 42 (or MATH 42H) (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 43H Precalculus III: Advanced Topics - HONORS 5 Units**  
 (See general education pages for the requirement this course meets.)  
 (Not open to students with credit in MATH 43.)  
 (Admission into this course requires consent of the Honors Program Coordinator.)  
 Prerequisite: MATH 41 (or MATH 41H) and MATH 42 (or MATH 42H) (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).  
 This is a UC and CSU transferable course that meets a general education requirement for CSUGE and IGETC. It belongs on the De Anza Liberal Arts AA/AS degree. This is the third course in a sequence of three courses in precalculus mathematics intended to provide the student who has successfully completed intermediate algebra with the foundations needed for success in calculus and advanced courses in mathematics and the sciences. This part of the sequence emphasizes advanced topics including graphing, vectors, linear and non-linear systems of inequalities, matrices and systems of linear equations, and sequences and series. As an honors course, students will be expected to complete extra assignments to gain deeper insight in precalculus.

**MATH 44 Mathematics in Art, Culture, and Society: A Liberal Arts Math Class 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 112 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.

<b>M</b>	<p><b>MATH 201 Pre-Algebra Refresher</b> <span style="float: right;"><b>½ Unit</b></span>  <i>Credit course - Does not apply to De Anza Associate degree.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>One and one-half hours laboratory (18 hours total per quarter).</i>  <i>Pass-No Pass (P-NP) course.</i>                      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.</p> <p><b>MATH 202 Beginning Algebra Refresher</b> <span style="float: right;"><b>½ Unit</b></span>  <i>Credit course - Does not apply to De Anza Associate degree.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>One and one-half hours laboratory (18 hours total per quarter).</i>  <i>Pass-No Pass (P-NP) course.</i>                      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.</p> <p><b>MATH 203 Intermediate Algebra Refresher</b> <span style="float: right;"><b>½ Unit</b></span>  <i>Credit course - Does not apply to De Anza Associate degree.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>One and one-half hours laboratory (18 hours total per quarter).</i>  <i>Pass-No Pass (P-NP) course.</i>                      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.</p> <p><b>MATH 210 College Math Preparation Level 1: Pre-Algebra</b> <span style="float: right;"><b>5 Units</b></span>  <i>Credit course - Does not apply to De Anza Associate degree.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Five hours lecture (60 hours total per quarter).</i>                      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.</p> <p><b>MATH 212 College Math Preparation Level 2: Beginning Algebra</b> <span style="float: right;"><b>5 Units</b></span>  <i>Credit course - Does not apply to De Anza Associate degree.</i>  <i>Prerequisite: Qualifying score on the Math Placement Test within last calendar year; or MATH 210 or equivalent with a grade of C or better.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Five hours lecture (60 hours total per quarter).</i>                      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.</p> <p><b>MATH 217 Integrated Statistics 1</b> <span style="float: right;"><b>10 Units</b></span>  <i>Credit course - Does not apply to De Anza Associate degree.</i>  <i>Prerequisite: Qualifying score on the Math Placement Test within last calendar year; or MATH 210 or equivalent with a grade of C or better.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Ten hours lecture (120 hours total per quarter).</i>                      This is the first 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. 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 private university.</p> <p><b>MATH 241 Academic Excellence in Precalculus I</b> <span style="float: right;"><b>1 Unit</b></span>  <i>Credit course - Does not apply to De Anza Associate degree.</i>  <i>Corequisite: MATH 241 students must also enroll in MATH 41 or MATH 41H.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours laboratory (36 hours total per quarter).</i>                      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.</p> <p><b>MATH 242 Academic Excellence in Trigonometry</b> <span style="float: right;"><b>1 Unit</b></span>  <i>(Formerly MATH 252.)</i>  <i>Credit course - Does not apply to De Anza Associate degree.</i>  <i>Corequisite: MATH 242 students must also enroll in MATH 42 or MATH 42H.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours laboratory (36 hours total per quarter).</i>                      Critical thinking and skills reinforcement in a trigonometry setting; cooperative learning/study techniques, concept development, and use of technology.</p>	<p><b>MATH 243 Academic Excellence in Precalculus III</b> <span style="float: right;"><b>1 Unit</b></span>  <i>Credit course - Does not apply to De Anza Associate degree.</i>  <i>Corequisite: MATH 243 students must also enroll in MATH 43 or MATH 43H.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours laboratory (36 hours total per quarter).</i>                      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.</p>
<h2>METEOROLOGY</h2>		
	<p><b>MET 10 Weather and Climate Processes</b> <span style="float: right;"><b>5 Units</b></span>  <i>(See general education pages for the requirement this course meets.)</i>  <i>Advisory: MATH 210 or equivalent; EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Five hours lecture (60 hours total per quarter).</i>                      Introduction to the principles 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."</p> <p><b>MET 10L Meteorology Laboratory</b> <span style="float: right;"><b>1 Unit</b></span>  <i>(See general education pages for the requirement this course meets.)</i>  <i>Prerequisite: MATH 210 or equivalent; MET 10 (may be taken concurrently).</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Three hours laboratory (36 hours total per quarter).</i>                      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.</p> <p><b>MET 20L Climate Studies Laboratory</b> <span style="float: right;"><b>1 Unit</b></span>  <i>(See general education pages for the requirement this course meets.)</i>  <i>Prerequisite: MET 10 (may be taken concurrently).</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; MATH 210 or equivalent.</i>  <i>Three hours laboratory (36 hours total per quarter).</i>                      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.</p>	
<h2>MUSIC</h2>		
	<p><b>MUSI 1A Music Appreciation: Music in Western Cultures</b> <span style="float: right;"><b>4 Units</b></span>  <i>(See general education pages for the requirement this course meets.)</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Four hours lecture (48 hours total per quarter).</i>                      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.</p> <p><b>MUSI 1B Music Appreciation: Jazz Styles</b> <span style="float: right;"><b>4 Units</b></span>  <i>(See general education pages for the requirement this course meets.)</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Four hours lecture (48 hours total per quarter).</i>                      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.</p>	

<b>MUSI 1C</b>	<b>Music Appreciation: World Music in America</b>	<b>4 Units</b>	<b>MUSI 8</b>	<b>Intermediate Electronic Music</b>	<b>3 Units</b>
<i>(See general education pages for the requirement this course meets.)</i>			<i>Prerequisite: MUSI 51.</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>			<i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>		
<i>Four hours lecture (48 hours total per quarter).</i>			<i>Two hours lecture, three hours laboratory (60 hours total per quarter).</i>		
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.			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.		
<b>MUSI 1D</b>	<b>Music Appreciation: Rock - From Roots to Rap</b>	<b>4 Units</b>	<b>MUSI 9A</b>	<b>Jazz Piano I</b>	<b>1 ½ Units</b>
<i>(See general education pages for the requirement this course meets.)</i>			<i>(Formerly MUSI 9.)</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>			<i>Prerequisite: Ability to play a keyboard instrument and read music.</i>		
<i>Four hours lecture (48 hours total per quarter).</i>			<i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>		
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.			<i>One hour lecture, two hours laboratory (36 hours total per quarter).</i>		
<b>MUSI 3A</b>	<b>Comprehensive Musicianship (First Quarter)</b>	<b>4 Units</b>	<i>(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.)</i>		
<i>Requisite/Advisory: None.</i>			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.		
<i>Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).</i>			<b>MUSI 9B</b>	<b>Jazz Piano II</b>	<b>1 ½ Units</b>
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.			<i>(Formerly MUSI 9B.)</i>		
<b>MUSI 3B</b>	<b>Comprehensive Musicianship (Second Quarter)</b>	<b>4 Units</b>	<i>Prerequisite: MUSI 9A or by instructor consent.</i>		
<i>Prerequisite: MUSI 3A or by audition.</i>			<i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>		
<i>Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).</i>			<i>One hour lecture, two hours laboratory (36 hours total per quarter).</i>		
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.			<i>(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.)</i>		
<b>MUSI 3C</b>	<b>Comprehensive Musicianship (Third Quarter)</b>	<b>4 Units</b>	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.		
<i>Prerequisite: MUSI 3B or by audition.</i>			<b>MUSI 9C</b>	<b>Jazz Piano III</b>	<b>1 ½ Units</b>
<i>Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).</i>			<i>(Formerly MUSI 9C.)</i>		
Principles, literacy, and parameters of music including writing, sight singing, rhythmic training, ear training, keyboard work, beginning analysis, and simple melody composition.			<i>Prerequisite: MUSI 9B or by instructor consent.</i>		
<b>MUSI 4A</b>	<b>Comprehensive Musicianship II (First Quarter)</b>	<b>4 Units</b>	<i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>		
<i>Prerequisite: MUSI 3C or by audition.</i>			<i>One hour lecture, two hours laboratory (36 hours total per quarter).</i>		
<i>Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).</i>			<i>(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.)</i>		
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.			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.		
<b>MUSI 4B</b>	<b>Comprehensive Musicianship II (Second Quarter)</b>	<b>4 Units</b>	<b>MUSI 10A</b>	<b>Music Fundamentals</b>	<b>3 Units</b>
<i>Prerequisite: MUSI 4A or by audition.</i>			<i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>		
<i>Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).</i>			<i>Three hours lecture (36 hours total per quarter).</i>		
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.			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.		
<b>MUSI 4C</b>	<b>Comprehensive Musicianship II (Third Quarter)</b>	<b>4 Units</b>	<b>MUSI 12A</b>	<b>Class Piano I</b>	<b>1 ½ Units</b>
<i>Prerequisite: MUSI 4B or by audition.</i>			<i>Advisory: MUSI 10A.</i>		
<i>Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).</i>			<i>One hour lecture, two hours laboratory (36 hours total per quarter).</i>		
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.			<i>(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.)</i>		
<b>MUSI 5A</b>	<b>Modal Counterpoint</b>	<b>3 Units</b>	Beginning piano for students with no previous instruction, those who need knowledge of piano for a teaching credential, music majors, and the general student.		
<i>Advisory: MUSI 3A or equivalent.</i>			<b>MUSI 12B</b>	<b>Class Piano II</b>	<b>1 ½ Units</b>
<i>Three hours lecture, one hour laboratory (48 hours total per quarter).</i>			<i>Prerequisite: MUSI 12A or consent of instructor.</i>		
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.			<i>One hour lecture, two hours laboratory (36 hours total per quarter).</i>		
			<i>(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.)</i>		
			Basic piano for beginning students who read treble and bass clef and understand music notation.		

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**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 14C 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. Topics may include: Music written for guitar orchestras, transcriptions from orchestral scores, transcriptions for guitar duos, trios and quartets, as well as modern music using contemporary rhythmic and melodic concepts and alternative performance techniques (prepared guitar, percussion, extended glissandi).*

**MUSI 15B Guitar Ensemble II 2 Units**

*Prerequisite: MUSI 15A or equivalent. Enrollment subject to audition.  
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.)  
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.*

<p><b>MUSI 18C Intermediate Piano III</b> <b>1 ½ Units</b>  <i>(Formerly MUSI 78C.)</i>  <i>Prerequisite: MUSI 18B or consent of instructor.</i>  <i>One hour lecture, two hours laboratory (36 hours total per quarter).</i>  <i>(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.)</i>                      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.</p>	<p><b>MUSI 32B Jazz Solo Voice II</b> <b>1 ½ Units</b>  <i>Prerequisite: MUSI 32A or equivalent.</i>  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>  <i>One hour lecture, two hours laboratory (36 hours total per quarter).</i>                      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.</p>
<p><b>MUSI 20 De Anza Chorale</b> <b>2 Units</b>  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>  <i>One hour lecture, three hours laboratory (48 hours total per quarter).</i>  <i>(Satisfies the Associate's Degree music ensemble requirement. May be taken up to six times for credit.)</i>                      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.</p>	<p><b>MUSI 34 Jazz Ensemble</b> <b>2 Units</b>  <i>Prerequisite: Audition based on the ability to play a traditional big band instrument and read music.</i>  <i>One hour lecture, three hours laboratory (48 hours total per quarter).</i>  <i>(Satisfies the Associate's Degree music ensemble requirement. May be taken up to six times for credit.)</i>                      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.</p>
<p><b>MUSI 21 Vintage Singers</b> <b>2 Units</b>  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263;</i>  <i>concurrent enrollment in MUSI 10A, 10B, 3A, 3B, 3C or 12A is recommended.</i>  <i>One hour lecture, three hours laboratory (48 hours total per quarter).</i>  <i>(Satisfies the Associate's Degree music ensemble requirement. May be taken up to six times for credit.)</i>                      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.</p>	<p><b>MUSI 41V Rehearsal and Performance</b> <b>1 ½ Units</b>  <b>MUSI 41W</b> <b>2 Units</b>  <i>Prerequisite: Placement by audition.</i>  <i>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).</i>                      Supervised participation in the various aspects of music rehearsal and/or performance.</p>
<p><b>MUSI 22 Early Music Study and Performance</b> <b>2 Units</b>  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263;</i>  <i>concurrent enrollment in MUSI 10A, 10B, 3A, 3B, 3C or 12A is recommended.</i>  <i>One hour lecture, three hours laboratory (48 hours total per quarter).</i>  <i>(Satisfies the Associate's Degree music ensemble requirement. May be taken up to six times for credit.)</i>                      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.</p>	<p><b>MUSI 42 Concert Band</b> <b>2 Units</b>  <i>Prerequisite: Placement by audition based on the ability to play a band instrument and read music at sight.</i>  <i>One hour lecture, three hours laboratory (48 hours total per quarter).</i>  <i>(Satisfies the Associate's Degree music ensemble requirement. May be taken up to six times for credit.)</i>                      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.</p>
<p><b>MUSI 25 Applied Music</b> <b>1 Unit</b>  <i>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).</i>  <i>Three hours laboratory (36 hours total per quarter).</i>  <i>(Satisfies the Associate's Degree Music requirement. May be taken up to six times for credit.)</i>                      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.</p>	<p><b>MUSI 44A Composition and Arranging - Level I</b> <b>1 ½ Units</b>  <i>(Formerly MUSI 64A.)</i>  <i>Prerequisite: MUSI 3A or MUSI 3B.</i>  <i>One hour lecture, two hours laboratory (36 hours total per quarter).</i>                      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.</p>
<p><b>MUSI 31 Chamber Orchestra</b> <b>2 Units</b>  <i>Prerequisite: Enrollment subject to audition; ability to play an orchestral instrument and read music at sight.</i>  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>  <i>One hour lecture, three hours laboratory (48 hours total per quarter).</i>  <i>(Satisfies the Associate's Degree music ensemble requirement. May be taken up to six times for credit.)</i>                      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.</p>	<p><b>MUSI 45 Jazz Combos</b> <b>2 Units</b>  <i>Prerequisite: Placement by audition based on the ability to play an instrument and read music.</i>  <i>One hour lecture, three hours laboratory (48 hours total per quarter).</i>  <i>(Satisfies the Associate's Degree music ensemble requirement. May be taken up to six times for credit.)</i>                      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.</p>
<p><b>MUSI 32A Jazz Solo Voice I</b> <b>1 ½ Units</b>  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263;</i>  <i>MUSI 13B or the equivalent.</i>  <i>One hour lecture, two hours laboratory (36 hours total per quarter).</i>  <i>(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.)</i>                      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.</p>	<p><b>MUSI 48A Jazz Improvisation I</b> <b>1 ½ Units</b>  <i>Prerequisite: Ability to play an instrument and read music.</i>  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>  <i>One hour lecture, two hours laboratory (36 hours total per quarter).</i>  <i>(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.)</i>                      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.</p>
<p><b>MUSI 48B Jazz Improvisation II</b> <b>1 ½ Units</b>  <i>(Formerly MUSI 68B.)</i>  <i>Prerequisite: MUSI 48A or by instructor consent.</i>  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>  <i>One hour lecture, two hours laboratory (36 hours total per quarter).</i>  <i>(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.)</i>                      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.</p>	

**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).*  
*(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. 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](http://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 of courses are scheduled in the daytime. Generally, the R.N. Program is not scheduled in the summer session. The program, once admitted, (not including prerequisites) is six quarters in length.

### L.V.N. Transition to the Registered Nursing Program

(Current California L.V.N. license is required.) The L.V.N. Transition to the R.N. graduate is eligible to take the California State Board Examination for licensing (NCLEX - R.N.) Students are admitted throughout the year as advanced placements. The majority of courses are scheduled in the daytime. Generally, the program is not scheduled in the summer session. The program, once admitted, (not including prerequisites) is at least three quarters in length.

### Advanced Placement for Students with Prior Nursing Education

Students are admitted in advanced placement during the fall, winter, or spring quarter on a space available basis only. Placement depends on prior nursing education.

**NURS 50 Career Opportunities in Nursing 2 Units**  
*Advisory: 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.*

*Corequisite: 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.*

*Corequisite: 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).*  
*Corequisite: 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).*  
*Corequisite: 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).*  
*Corequisite: 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).*  
*Corequisite: 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).*  
*Corequisite: 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).*  
*Corequisite: 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).*  
*Corequisite: 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).*  
*Corequisite: 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).*  
*Corequisite: 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).*  
*Corequisite: 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).*  
*Corequisite: 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).*  
*Corequisite: 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.

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**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).  
*Corequisite:* 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).  
*Corequisite:* 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).  
*Corequisite:* 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).  
*Corequisite:* 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**

*Corequisite:* 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**

*Corequisite:* 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**

*Corequisite:* 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**

*Corequisite:* 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.

<b>PARA 65W</b>	<b>Current Paralegal Topics</b>	<b>1 Unit</b>	<b>PARA 89</b>	<b>Landlord Tenant Law</b>	<b>4 Units</b>
<b>PARA 65X</b>		<b>2 Units</b>	<i>Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or professional experience appropriate to the topic.</i>		
<b>PARA 65Y</b>		<b>3 Units</b>	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<b>PARA 65Z</b>		<b>4 Units</b>	<i>Four hours lecture (48 hours total per quarter).</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273; background or experience appropriate to topic or consent of instructor.</i>			<i>California law relating to creation of landlord/tenant relationship; legal rights of landlords; legal rights of tenants; eviction proceedings.</i>		
<i>One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).</i>			<b>PARA 90A</b>	<b>Legal Aspects of Evidence (CP 4)</b>	<b>4 Units</b>
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.			<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<b>PARA 67</b>	<b>Law Office Management for Paralegals</b>	<b>2 Units</b>	<i>(Also listed as ADMJ 90A. Students may enroll in either department, but not both, for credit.)</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>			<i>Four hours lecture (48 hours total per quarter).</i>		
<i>Two hours lecture (24 hours total per quarter).</i>			The origin, development, and content of the rules of evidence; kinds of degrees of evidence and rules governing admissibility of evidence.		
An examination of the law office environment, its structure and procedural aspects, and the important role the paralegal plays within it.			<b>PARA 91A</b>	<b>California Family Law</b>	<b>4 Units</b>
<b>PARA 69</b>	<b>Paralegal Field Trips</b>	<b>1 Unit</b>	<i>Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or professional experience appropriate to the topic.</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>			<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Three hours laboratory (36 hours total per quarter).</i>			<i>Four hours lecture (48 hours total per quarter).</i>		
A survey of current conditions in the paralegal field.			Substantive and procedural aspects of family law practice in California, with emphasis on dissolution procedures.		
<b>PARA 74A</b>	<b>Interviewing, Interrogation and Crisis Intervention</b>	<b>4 Units</b>	<b>PARA 92A</b>	<b>Partnerships and Corporations</b>	<b>4 Units</b>
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>			<i>Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or professional experience appropriate to the topic.</i>		
<i>(Also listed as ADMJ 74A and PSYC 74A. Students may enroll in only one department for credit.)</i>			<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Four hours lecture (48 hours total per quarter).</i>			<i>Four hours lecture (48 hours total per quarter).</i>		
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.			Substantive and procedural law of basic business organizations, including sole proprietorships, partnerships, corporations and limited liability companies and partnerships.		
<b>PARA 75</b>	<b>Principles and Procedures of the Justice System</b>	<b>4 Units</b>	<b>PARA 92B</b>	<b>Corporate Securities Regulations</b>	<b>4 Units</b>
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>			<i>Prerequisite: PARA 92A or professional experience appropriate to the topic.</i>		
<i>(Also listed as ADMJ 75 and POLI 75. Students may enroll in only one department for credit.)</i>			<i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>		
<i>Four hours lecture (48 hours total per quarter).</i>			<i>Four hours lecture (48 hours total per quarter).</i>		
Procedures followed by law enforcement and courts in criminal cases; constitutional principles governing those procedures.			Substantive laws and procedural rules and forms related to California and federal corporate securities regulations.		
<b>PARA 84</b>	<b>Trial Preparation</b>	<b>4 Units</b>	<b>PARA 93</b>	<b>Bankruptcy Law</b>	<b>4 Units</b>
<i>Prerequisite: PARA 97B.</i>			<i>Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or professional experience appropriate to the topic.</i>		
<i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>			<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Four hours lecture (48 hours total per quarter).</i>			<i>Four hours lecture (48 hours total per quarter).</i>		
Role of paralegal in preparing a case for trial including pretrial planning, evidence gathering and case analysis.			Substantive law of bankruptcy; legal rights of debtors and creditors, procedural rules and forms for bankruptcy; practical applications.		
<b>PARA 85</b>	<b>Intellectual Property Law</b>	<b>4 Units</b>	<b>PARA 94</b>	<b>Introduction to California Law</b>	<b>4 Units</b>
<i>Prerequisite: ADMJ 95 or PARA 95 or POLI 95 (either course may be taken concurrently).</i>			<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>			<i>Four hours lecture (48 hours total per quarter).</i>		
<i>Four hours lecture (48 hours total per quarter).</i>			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.		
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.			<b>PARA 95</b>	<b>Overview of American Law</b>	<b>4 Units</b>
<b>PARA 86</b>	<b>Legal Analysis</b>	<b>4 Units</b>	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>			<i>(Also listed as ADMJ 95 and POLI 95. Students may enroll in only one department for credit.)</i>		
<i>Four hours lecture (48 hours total per quarter).</i>			<i>Four hours lecture (48 hours total per quarter).</i>		
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.			Overview of the major substantive areas of American law: Agency, contracts, constitutional law, corporations, criminal law, family law, property, torts, wills and estates.		
<b>PARA 87</b>	<b>Personal Injury and Tort Litigation</b>	<b>4 Units</b>	<b>PARA 96A</b>	<b>Introduction to Legal Research and Writing</b>	<b>4 Units</b>
<i>Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or professional experience appropriate to the topic.</i>			<i>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.</i>		
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>			<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>		
<i>Four hours lecture (48 hours total per quarter).</i>			<i>Four hours lecture (48 hours total per quarter).</i>		
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.			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.		
<b>PARA 88</b>	<b>The Paralegal and Professional Responsibility</b>	<b>2 Units</b>	<b>PARA 96B</b>	<b>Advanced Legal Research and Writing</b>	<b>4 Units</b>
<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>			<i>Prerequisite: PARA 96A.</i>		
<i>Two hours lecture (24 hours total per quarter).</i>			<i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i>		
An examination of the role of the paralegal in the legal system. Ethical rules and guidelines governing legal professionals will also be examined.			<i>Four hours lecture (48 hours total per quarter).</i>		

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**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.

<b>PHIL 20A</b>	<b>History of Western Philosophy- Ancient Greece</b>	<b>4 Units</b>	<b>PHTG 3</b>	<b>Advanced Photography</b>	<b>3 Units</b>
<i>(See general education pages for the requirement this course meets.)</i> 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.			<i>Prerequisite: PHTG 2 or PHTG 5.</i> Two hours lecture, three hours laboratory (60 hours total per quarter). <i>(This course is included in the Photography - Professional Practices Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i> 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.		
<b>PHIL 20B</b>	<b>History of Western Philosophy - 1400-1800</b>	<b>4 Units</b>	<b>PHTG 4</b>	<b>Introduction to Digital Photography</b>	<b>3 Units</b>
<i>(See general education pages for the requirement this course meets.)</i> 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.			<i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i> 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.		
<b>PHIL 20C</b>	<b>History of Western Philosophy - 1800-the Present</b>	<b>4 Units</b>	<b>PHTG 5</b>	<b>Intermediate Digital Photography</b>	<b>3 Units</b>
<i>(See general education pages for the requirement this course meets.)</i> 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.			<i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i> Two hours lecture, three hours laboratory (60 hours total per quarter). <i>(This course is included in the Digital Photography Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i> 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.		
<b>PHIL 24</b>	<b>Philosophy of Religion</b>	<b>4 Units</b>	<b>PHTG 6</b>	<b>Exploring Visual Expression</b>	<b>4 Units</b>
<i>(See general education pages for the requirement this course meets.)</i> 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.			<i>(See general education pages for the requirement this course meets.)</i> 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.		
<b>PHIL 30</b>	<b>Introduction to Existentialism</b>	<b>4 Units</b>	<b>PHTG 21</b>	<b>Contemporary Trends in Photography</b>	<b>4 Units</b>
<i>(See general education pages for the requirement this course meets.)</i> 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.			<i>(See general education pages for the requirement this course meets.)</i> 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.		
<b>PHIL 49</b>	<b>Women and Philosophy</b>	<b>4 Units</b>	<b>PHTG 52</b>	<b>Photography Production Laboratory</b>	<b>2 Units</b>
<i>(See general education pages for the requirement this course meets.)</i> Advisory: EWRT 1A or EWRT 1AH or ESL 5. <i>(Also listed as WMST 49. Students may enroll in either department, but not both, for credit.)</i> 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.			<i>Prerequisite: PHTG 1 or PHTG 4 (may be taken concurrently).</i> Six hours laboratory (72 hours total per quarter). <i>(This course is included in the Photography - Professional Practices Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i> Supervised use of photographic studio, darkrooms and/or photographic computer lab space.		

## PHOTOGRAPHY

<b>PHTG 1</b>	<b>Basic Photography</b>	<b>3 Units</b>	<b>PHTG 54</b>	<b>Experimental Photography</b>	<b>3 Units</b>
<i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.</i> 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.			<i>Prerequisite: PHTG 1 (may be taken concurrently).</i> Two hours lecture, three hours laboratory (60 hours total per quarter). <i>(This course is included in the Analog Photography Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i> 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.		
<b>PHTG 2</b>	<b>Intermediate Photography</b>	<b>3 Units</b>	<b>PHTG 57A</b>	<b>Commercial Lighting I</b>	<b>3 Units</b>
<i>Prerequisite: PHTG 1.</i> Two hours lecture, three hours laboratory (60 hours total per quarter). <i>(This course is included in the Analog Photography Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i> 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.			<i>Prerequisite: PHTG 1 or PHTG 4.</i> Two hours lecture, three hours laboratory (60 hours total per quarter). <i>(This course is included in the Photography - Professional Practices Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i> 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.		

<b>P</b>	<p><b>PHTG 57B Commercial Lighting II</b> <b>3 Units</b>  <i>Prerequisite: PHTG 57A.</i>  <i>Two hours lecture, three hours laboratory (60 hours total per quarter).</i>  <i>(This course is included in the Photography - Professional Practices Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>                      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.</p> <p><b>PHTG 58A Photographic Photoshop I</b> <b>3 Units</b>  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.</i>  <i>Two hours lecture, three hours laboratory (60 hours total per quarter).</i>  <i>(This course is included in the Digital Photography Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>                      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.</p> <p><b>PHTG 58B Photographic Photoshop II</b> <b>3 Units</b>  <i>Advisory: PHTG 58A; EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263; MATH 210 or equivalent.</i>  <i>Two hours lecture, three hours laboratory (60 hours total per quarter).</i>  <i>(This course is included in the Digital Photography Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>                      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.</p> <p><b>PHTG 60 Using a Digital Camera</b> <b>2 Units</b>  <i>Requisite/Advisory: None.</i>  <i>One hour lecture, three hours laboratory (48 hours total per quarter).</i>                      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.</p> <p><b>PHTG 77 Special Projects in Photography</b> <b>2 Units</b>  <i>Prerequisite: Consent of instructor and division dean.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>  <i>(This course is included in the Photography - Professional Practices Family of activity courses. Please see Course Repetition, Repeatability and Families page for more information.)</i>                      Individual projects in creative, technical, or applied photography by written arrangement with the instructor. A specific area is explored in depth and quality.</p> <p><b>PHTG 78Y Special Topics in Photographic Studies</b> <b>2 Units</b>  <i>Advisory: EWRT 200 and READ 200 (or LART 200), or ESL 261, 262 and 263.</i>  <i>Two hours lecture (24 hours total per quarter).</i>                      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).</p>	<p><b>PE 4XX High Intensity Strength Development for Athletes</b> <b>1 Unit</b>  <i>Prerequisite: Enrollment in intercollegiate athletics.</i>  <i>Three hours laboratory (36 hours total per quarter).</i>  <i>(Satisfies the requirement of an intercollegiate athletics course. May be taken up to six times for credit.)</i>                      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> <p><b>PE 32B Women's Badminton Techniques</b> <b>2 Units</b>  <i>(See general education pages for the requirement this course meets.)</i>  <i>Prerequisite: Competitive badminton experience at the high school, club or collegiate levels and consent of instructor.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>  <i>(Satisfies the requirement of an intercollegiate athletics course. May be taken up to six times for credit.)</i>                      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> <p><b>PE 32F Defensive Baseball Techniques</b> <b>2 Units</b>  <i>(See general education pages for the requirement this course meets.)</i>  <i>Prerequisite: Competitive baseball experience at the high school, club or collegiate levels and consent of instructor.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>Six hours laboratory (72 hours total per quarter).</i>  <i>(Satisfies the requirement of an intercollegiate athletics course. May be taken up to six times for credit.)</i>                      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> <p><b>PE 32G Offensive Baseball Techniques</b> <b>2 Units</b>  <i>(See general education pages for the requirement this course meets.)</i>  <i>Prerequisite: Competitive baseball experience at the high school, club or collegiate levels and consent of instructor.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>(Satisfies the requirement of an intercollegiate athletics course. May be taken up to six times for credit.)</i>                      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> <p><b>PE 32HX Offensive Football Techniques</b> <b>1 Unit</b>  <b>PE 32H</b> <b>2 Units</b>  <i>(See general education pages for the requirement this course meets.)</i>  <i>Prerequisite: Competitive football experience at the high school, club or collegiate levels and consent of instructor.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>(Satisfies the requirement of an intercollegiate athletics course. Any combination of PE 32HX and 32H may be taken up to six times for credit.)</i>  <i>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).</i>                      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> <p><b>PE 32IX Defensive Football Techniques</b> <b>1 Unit</b>  <b>PE 32I</b> <b>2 Units</b>  <i>(See general education pages for the requirement this course meets.)</i>  <i>Prerequisite: Competitive football experience at the high school, club or collegiate levels and consent of instructor.</i>  <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i>  <i>(Satisfies the requirement of an intercollegiate athletics course. Any combination of PE 32IX and 32I may be taken up to six times for credit.)</i>  <i>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).</i>                      An introduction to the discipline of Physical Education through defensive football</p>
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## PHYSICAL EDUCATION

**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 [www.deanza.edu/registration/courserepeat.html](http://www.deanza.edu/registration/courserepeat.html)

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.

**PE 32JX Water Polo Techniques 1 Unit**  
**PE 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 PE 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.

**PE 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.

**PE 32LX Volleyball Techniques 1 Unit**  
**PE 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 PE 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.

**PE 32MX Soccer Techniques 1 Unit**  
**PE 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 PE 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.

**PE 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.

**PE 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.

**PE 32SX Women's Soccer Techniques 1 Unit**  
**PE 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 PE 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.

**PE 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.

**PE 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.

**PE 38WX Intercollegiate Women's Badminton 1 ½ Units**  
**PE 38WY 2 Units**  
**PE 38W 3 Units**

(PE 38WX was formerly PE 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 PE 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.

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**PE 39MX Intercollegiate Men's Soccer 1 ½ Units**  
**PE 39MY 2 Units**  
**PE 39M 3 Units**

(PE 39M was formerly PE 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 PE 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.

**PE 39WX Intercollegiate Women's Soccer 1 ½ Units**  
**PE 39WY 2 Units**  
**PE 39W 3 Units**

(PE 39WX was formerly PE 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 PE 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.

**PE 40X Intercollegiate Football 1 ½ Units**  
**PE 40Y 2 Units**  
**PE 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 PE 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.

**PE 41X Intercollegiate Water Polo 1 ½ Units**  
**PE 41Y 2 Units**  
**PE 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 PE 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.

**PE 42WX Intercollegiate Women's Volleyball 1 ½ Units**  
**PE 42WY 2 Units**  
**PE 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 PE 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.

**PE 43X Intercollegiate Cross Country 1 ½ Units**  
**(Men and Women)**

**PE 43Y 2 Units**  
**PE 43 3 Units**

(PE 43X was formerly PE 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 PE 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.

**PE 44MX Intercollegiate Men's Basketball 1 ½ Units**  
**PE 44MY 2 Units**  
**PE 44M 3 Units**

(PE 44MX was formerly PE 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 PE 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.

**PE 44WX Intercollegiate Women's Basketball 1 ½ Units**  
**PE 44WY 2 Units**  
**PE 44W 3 Units**

(PE 44WX was formerly PE 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 PE 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.

**PE 45X Intercollegiate Swimming and Diving 1 ½ Units**  
**PE 45Y (Men and Women) 2 Units**  
**PE 45 3 Units**

(PE 45X was formerly PE 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 PE 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.

**PE 46X Intercollegiate Track and Field 1 ½ Units**  
**PE 46Y (Men and Women) 2 Units**  
**PE 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 PE 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.

**PE 47MX Intercollegiate Baseball 1 ½ Units**  
**PE 47MY 2 Units**  
**PE 47M 3 Units**

(PE 47MX was formerly PE 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 PE 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.

**PE 47WX Intercollegiate Softball 1 ½ Units**  
**PE 47WY 2 Units**  
**PE 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 PE 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.*

**PE 48MX Intercollegiate Men's Tennis 1 ½ Units**  
**PE 48MY 2 Units**  
**PE 48M 3 Units**

(PE 48MX was formerly PE 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 PE 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.

**PE 48WX Intercollegiate Women's Tennis 1 ½ Units**  
**PE 48WY 2 Units**  
**PE 48W 3 Units**

(PE 48WX was formerly PE 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 PE 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.

**PE 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

<b>PEA 1</b>	<b>Adapted Total Fitness</b>	<b>½ Unit</b>
<b>PEA 1X</b>		<b>1 Unit</b>
<b>PEA 1Y</b>		<b>1 ½ Units</b>
<b>PEA 1Z</b>		<b>2 Units</b>

(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.

<b>PEA 2</b>	<b>Adapted Strength Development</b>	<b>½ Unit</b>
<b>PEA 2X</b>		<b>1 Unit</b>
<b>PEA 2Y</b>		<b>1 ½ Units</b>
<b>PEA 2Z</b>		<b>2 Units</b>

(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.

<b>PEA 4</b>	<b>Adapted Cardiovascular Training</b>	<b>½ Unit</b>
<b>PEA 4X</b>		<b>1 Unit</b>
<b>PEA 4Y</b>		<b>1 ½ Units</b>
<b>PEA 4Z</b>		<b>2 Units</b>

(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.

<b>PEA 5</b>	<b>Adapted Aquatic Exercise</b>	<b>½ Unit</b>
<b>PEA 5X</b>		<b>1 Unit</b>
<b>PEA 5Y</b>		<b>1 ½ Units</b>
<b>PEA 5Z</b>		<b>2 Units</b>

(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 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.

<b>PHYS 4D</b>	<b>Physics for Scientists and Engineers: Modern Physics</b>	<b>6 Units</b>	<b>POLI 5</b>	<b>Introduction to Political Thought and Theory</b>	<b>4 Units</b>
<i>Prerequisite: PHYS 4C.</i> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i> <i>Five hours lecture, three hours laboratory (96 hours total per quarter).</i> An introduction to special relativity and quantum mechanics. Nuclear physics, elementary particles, and other selected topics are treated as time allows.			<i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i> <i>Four hours lecture (48 hours total per quarter).</i> 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.).		
<b>PHYS 10</b>	<b>Concepts of Physics</b>	<b>5 Units</b>	<b>POLI 10</b>	<b>Introduction to Administration of Justice</b>	<b>4 Units</b>
<i>(See general education pages for the requirement this course meets.)</i> <i>Prerequisite: MATH 114 or equivalent; or a qualifying score on the Intermediate Algebra Placement Test.</i> <i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i> <i>Five hours lecture (60 hours total per quarter).</i> 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.			<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i> <i>(Also listed as ADMJ 1. Students may enroll in either department, but not both, for credit.)</i> <i>Four hours lecture (48 hours total per quarter).</i> 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.		
<b>PHYS 50</b>	<b>Preparatory Physics</b>	<b>4 Units</b>	<b>POLI 11</b>	<b>Federal Courts and Constitutional Law</b>	<b>4 Units</b>
<i>Advisory: MATH 43 (or MATH 43H) and PHYS 10.</i> <i>Four hours lecture (48 hours total per quarter).</i> A study in basic problem solving techniques in mechanics as a preparation for PHYS 4A.			<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i> <i>(Also listed as ADMJ 11 and PARA 11. Students may enroll in only one department for credit.)</i> <i>Four hours lecture (48 hours total per quarter).</i> 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.		
<b>PHYS 77</b>	<b>Special Projects in Physics</b>	<b>1 Unit</b>	<b>POLI 13</b>	<b>Concepts of Criminal Law (CP 2)</b>	<b>4 Units</b>
<b>PHYS 77X</b>		<b>2 Units</b>	<i>Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.</i> <i>(Also listed as ADMJ 3 and PARA 3. Students may enroll in only one department for credit.)</i> <i>Four hours lecture (48 hours total per quarter).</i> 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.		
<b>PHYS 77Y</b>		<b>3 Units</b>	<b>POLI 15</b>	<b>Grassroots Democracy: Race, Politics and the American Promise</b>	<b>4 Units</b>
<i>Prerequisite: Consent of instructor and division dean.</i> <i>Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).</i> <i>Pass-No Pass (P-NP) course.</i> Individual special reading, writing, or study projects in Physics as determined in consultation with the instructor.			<i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i> <i>(Also listed as ICS 25. Students may enroll in either department, but not both, for credit.)</i> <i>Four hours lecture (48 hours total per quarter).</i> 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.		
<b>POLITICAL SCIENCE</b>					
<b>POLI 1</b>	<b>American Government and Politics</b>	<b>5 Units</b>	<b>POLI 16</b>	<b>Grassroots Democracy: Social Movements Since the 1960s</b>	<b>4 Units</b>
<i>(See general education pages for the requirement this course meets.)</i> <i>(Not open to students with credit in POLI 1H.)</i> <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i> <i>Five hours lecture (60 hours total per quarter).</i> 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.			<i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i> <i>(Also listed as ICS 36. Students may enroll in either department, but not both, for credit.)</i> <i>Four hours lecture (48 hours total per quarter).</i> 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.		
<b>POLI 1H</b>	<b>American Government and Politics - HONORS</b>	<b>5 Units</b>			
<i>(See general education pages for the requirement this course meets.)</i> <i>(Not open to students with credit in POLI 1.)</i> <i>(Admission into this course requires consent of the Honors Program Coordinator.)</i> <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i> <i>Five hours lecture (60 hours total per quarter).</i> 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. As an honors course, the students will be expected to complete extra assignments to gain a deeper insight in American Government and Politics.					
<b>POLI 2</b>	<b>Comparative Politics</b>	<b>4 Units</b>			
<i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i> <i>Four hours lecture (48 hours total per quarter).</i> 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.					
<b>POLI 3</b>	<b>International Relations</b>	<b>4 Units</b>			
<i>(See general education pages for the requirement this course meets.)</i> <i>Advisory: EWRT 1A or EWRT 1AH or ESL 5.</i> <i>Four hours lecture (48 hours total per quarter).</i> 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.					

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**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 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 CD 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 CD 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**

Some courses in the English Department are designed for students with a recommended level of skills and knowledge. De Anza uses a variety of assessment methods – including placement tests, high school transcripts and high school GPA – to place students in the best course sequence for them to succeed. Students who have not been assessed or who are unsure of their placement should contact the Assessment Center: [deanza.edu/assessment](http://deanza.edu/assessment).

**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 Justice 1 Unit**

Requisite/Advisory: None.  
 One hour lecture (12 hours total per quarter).  
 Examining collegiate reading materials within social justice issues, with a particular emphasis in an examination of the theories and concepts of social justice. Specified reading strategies to critique, analyze and synthesize complex texts will be used.

**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.

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## 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 the Russian Federation. Elementary speaking, listening, reading, and writing of Russian will be continued and practiced within a cultural framework. The emphasis will be on language as an expression of culture. Language laboratory practice 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. Completion 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.

Additional 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.

**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, minority 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.

## 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 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 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 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 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 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 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 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 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 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 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 97A The Art of Protest - FYE, Puente and Umoja** 1 Unit  
*Corequisite: Student must also enroll in a designated First Year Experience, Puente or Umoja section of SOC 20.*  
*One hour lecture (12 hours total per quarter).*  
 Explores topics in social problems and social movements from a sociological perspective. Addresses various theories of Social Problems and Movements as well as tools, strategies and processes of successful social movements including (but not limited to) political or movement art, collective and direct action, claims making campaigns, and coalition building.

**SOC 97B Institutional Inequality - FYE, Puente and Umoja** 1 Unit  
*Corequisite: Students must also enroll in a designated First Year Experience, Puente or Umoja section of SOC 1.*  
*One hour lecture (12 hours total per quarter).*  
 Analysis of social institutions in American society through a sociological perspective with an emphasis on education and its interaction with other institutions. Investigates the processes through which social institutions reproduce race, class and gender inequality in society.

## ST 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)

(See Educational Access for course listings.)

## 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, playwrighting, 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 LANGUAGE

### 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 psychological, 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.

- W 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

**ABRICA-CARRASCO, RUBEN** 2012  
Spanish/Latino Studies  
B.A., Occidental College;  
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**ACEVEDO-AVILA, VERONICA** 1995  
Reading  
B.A., University of California,  
Santa Cruz;  
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**ALEXANDER, ROBERT** 2009  
Counselor  
B.A., San Francisco State University;  
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**ALTMAN, DANIELLE** 2010  
Physical Education  
B.A., University of Redlands;  
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**ALVES DE LIMA, DIANA** 1996  
Tutorial/Academic Skills  
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Communications  
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Biology  
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Machine Tools  
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**ARGYRIOU, ANNE** 2000  
Reading  
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**AUGENSTEIN, RENEE** 1997  
Articulation Officer/  
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B.A., University of Redlands;  
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**BALM, CHERYL** 2015  
Mathematics  
B.A., University of North Carolina;  
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Philosophy  
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**BAMBHANIA, DOLI** 2002  
Mathematics  
B.A., M.A., University of California,  
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**BENNETT, MARY** 1990  
Adaptive Physical Education  
A.A., West Valley College;  
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**BETLACH, MARCY** 1996  
English as a Second Language  
B.A., Washington State University;  
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**BLOOM, ROBERTA** 2001  
Mathematics  
B.A., Princeton University;  
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**BOARD LILJENSTOLPE, REBECCA** 1997  
Language Arts  
B.A., M.A., California Polytechnic  
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English  
B.A., M.A., California State University,  
Los Angeles

**BOOHER, CHARLES** 2016  
Philosophy  
B.A., California State University,  
Fullerton;  
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**BOTSFORD, LYDIA** 2007  
Accounting  
B.A., University of California,  
Santa Cruz;  
MBA, Santa Clara University

**BORDIGNON, GUIDO** 2016  
Biology  
B.S., M.S., Pharm D.; University of  
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**BOURGOIS, MARY JOY** 1990  
Child Development  
B.A., University of Guam

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Mathematics  
B.S., M.S., California State University,  
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Biology  
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Accounting  
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Humanities  
B.A., Fairhaven College;  
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**BROPHY, MEGAN** 2017  
Chemistry  
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**BRYANT, RANDY** 2001  
Automotive Technology  
A.S., College of the Air Force;  
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**BUCHNER, PATRICIA** 2014  
Medical Technology  
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University

**CADGE-MOORE, CATIE** 1999  
Art History  
B.A., State University of New York,  
Binghamton;  
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**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  
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**CAROBUS, PATRICIA** 2016  
English as a Second Language  
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M.A., San Jose State University

**CASTRO, ELISA** 2017  
Counseling  
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**CAVANO, JOHN** 2017  
Disability Support Programs and  
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B.A., University of California, Davis;  
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English as a Second Language  
B.A., B.S., University of California,  
Davis;  
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Library  
B.A., San Francisco State University;  
M.L.I.S., University of California,  
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**CHANG, MICHAEL S. H.** 1989  
Asian/Asian-American Studies  
B.S., B.A., San Francisco State  
University;  
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**CHIVERS, NICHOLAS** 2017  
Communications  
B.A., M.A. San Francisco State  
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English  
B.S., University of Southern  
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Geology  
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History  
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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

**CORONADO, MARC** 2004  
English  
B.A., University of El Paso;  
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Santa Barbara

**COZZENS, SHERRI** 1996  
Nursing  
B.S.N., M.S., San Jose State  
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Child Development Education  
B.A., University of Puerto Rico;  
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**CUFF-ALVARADO, JUDY** 1996  
Biology  
B.S., Ithaca College;  
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Physical Education  
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**DAHLKE, BARBARA** 2007  
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M.S., Colorado State University;  
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Physical Education  
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English  
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Mathematics  
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**DESILETS, LENORE** 1993  
Mathematics  
B.A., University of California,  
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**DE TORO, ALICIA** 2010  
Environmental Studies  
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<b>DHALIWAL, HARMAN</b> Mathematics B.S., San Jose State University; M.S., Ohio State University	2006	<b>GAMBOA, JUAN</b> Chicano Studies B.A., M.A., San Francisco State University	2016	<b>GUEVARA, DAWNIS</b> Physical Education B.A., M.A., San Jose State University; M.A., St. Mary's College	2001	<b>HUGHES, MELINDA</b> Counseling B.A., California State University, Long Beach; M.A., San Jose State University; Ed.D., Argosy University	1999
<b>DIAZ, MARY</b> Nursing B.S., M.S., San Jose State University	2017	<b>GANESH, MONICA</b> Counseling/Language Arts B.A., M.A., San Jose State University	2016	<b>GUISTRON, PATRICIA</b> Counseling B.A., M.S., San Francisco State University	2001	<b>HUI, CECILIA</b> Librarian B.A., M.S., McGill University	2011
<b>DILEONARDO, CHRISTOPHER</b> Geology B.S., M.A., San Jose State University; Ph.D., University of California, Santa Cruz	1990	<b>GANESHALINGAM, USHA</b> Mathematics B.S., M.S., San Jose State University	2012	<b>HALWANI, ESTHER</b> Disability Support Services Counselor B.A., Sonoma State University; M.S., San Francisco State University	2008	<b>HUNTER, TRULY</b> Counseling B.A., Winthrop University; M.Ed., Clemson University; Ed.D., Argosy University	1996
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## ADMINISTRATORS

<b>BLISS, SAM</b> 2016 Dean, Community Education B.A., Princeton University; M.A., Santa Clara University	<b>ROSENBERG, JERRY</b> Dean, Physical Sciences, Mathematics and Engineering B.A., B.S., Rutgers University; M.S., University of Washington	<b>BARTUNEK, CAROL R.</b> 1975-1998 Religious Studies A.A., Foothill College; B.A., San Jose State University; M.Div., American Baptist Seminary	<b>CAMPBELL, DAVE</b> 1998-2005 Accounting B.S., La Salle College; MBA, San Jose State University; Ph.D., La Salle University
<b>CAMPBELL, YVETTE</b> 2016 Director, STEM Success Program B.A., M.S., San Francisco State University; Ph.D., University of California, Santa Cruz	<b>SHEARS, STACEY</b> 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	<b>BEGGS, THOMAS W.</b> 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	<b>CANTER, NANCY</b> 1998-2018 Dean, Creative Arts B.A., University of California, Irvine; M.A., M.F.A., Claremont Graduate University; Ed.D., University of Southern California
<b>CHEU, SUSAN</b> 2014 Vice President, Administrative Services B.S., University of California, Davis; M.S., San Jose State University	<b>SPATAFORE, MARISA</b> 2006 Associate Vice President, Communications and External Relations B.S., West Virginia University; M.A., San Francisco State University	<b>BERRY, FRANK W.</b> 1969-2002 English A.B., University of Michigan; M.A., San Francisco State University	<b>CANTRELL, JOSEPH E.</b> 1984-1997 Business B.S., Oklahoma State University; MBA, Stanford University
<b>CORTEZ, ALICIA</b> 1990 Dean, Equity and Engagement B.A., Saint Mary's College; M.S.W., University of California, Berkeley; M.A., San Jose State University	<b>SWANSON, KELLY</b> 2013 Director, Bookstore A.A., Fresno City College	<b>BLINICK, CARON S.</b> 1981-2014 Dean, Community Education and Older Adult Studies B.A., University of Illinois, Dekalb; M.A., University of Wisconsin, Madison	<b>CASTANO, WILFREDO Q.</b> 1989-2017 Photography B.F.A., San Francisco Art Institute; M.A., San Francisco State University
<b>DASILVA, EMANUEL</b> 2007 Manager, Operations B.S., Palo Alto University	<b>VARELA, MARTIN</b> 2017 Director, College Fiscal Services B.A., Menlo College	<b>BOGUS, S. DIANE</b> 1990-2001 English B.A., Stillman College; M.A., Syracuse University; Ph.D., Miami University	<b>CASTILLO, CINDY</b> 1977-2012 Director, Financial Aid and Scholarships B.A., San Jose State University
<b>ESPINOSA-PIEB, CHRISTINA</b> 1982 Interim President B.S., University of Phoenix; M.A., University of San Francisco	<b>VILLALBA, KAREN ARLENE</b> 2006 Assistant Director, Child Development Center A.A., De Anza College; B.A., Pacific Oaks College	<b>BOTHMAN, RICHARD W.</b> 1988-1995 Administration of Justice B.A., M.S., San Jose State University	<b>CENTANNI, DEBORAH</b> 2007-2017 Special Education B.A., St. Mary's College; M.A., San Jose State University
<b>FAYEK, MOATY</b> 2012 Dean, Business, Computer Science and Applied Technologies B.A., Cairo University; M.S., California State University, Chico	<b>WHITE-DANIELS, SHEILA</b> 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	<b>BOWER, JOAN</b> 1975-1990 Older Adult Services B.A., M.S., San Jose State University	<b>CHAN, KWAN H.</b> 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
<b>GANNON, PATRICK</b> 2002 Director, Campus Center Culinary Degree, Hospitality and Administration, Dublin College of Catering; B.S., Palo Alto University	<b>WILKINS-GREENE, CAROLYN</b> 1989 Dean, Social Sciences and Humanities B.Mus., University of Texas, Austin; M.A., Stanford University	<b>BRANDT, MICHAEL</b> 1975-2016 Automotive Technology A.A., De Anza College	<b>CHAN, SUSANNE W.</b> 1977-2013 Counseling B.A., University of Maryland; M.S., Ed.S., State University of New York
<b>GREY, PAM</b> 2016 Associate Vice President, College Operations B.P.A., University of San Francisco; MBA, Presidio Graduate School	<b>ADAMY, GEORGEANNE</b> 1989-2002 Nursing B.S., Arizona State University; M.S., University of Maryland	<b>BRESNAN, PATRICK S.</b> 1967-2009 History B.S., Loyola University, Chicago; M.A., Northwestern University	<b>CHEESEMAN, DOUGLAS T.</b> 1967-1997 Biology B.A., M.A., San Jose State University
<b>HARADA, NAOKO</b> 2007 Director, Child Development Center B.A., University of the Sacred Heart; M.A., San Francisco State University	<b>ALLEN, ROBERT R.</b> 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	<b>BRESSOUD, EDWARD F.</b> 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	<b>CHENOWETH, WAYNE</b> 1990-2015 Special Education B.A., M.A., California State University, Chico
<b>LEBLEU-BURNS, MICHELE</b> 2007 Dean, Student Development and EOPS B.A., San Jose State University; M.A., Santa Clara University	<b>ARAKI, JOANNE M.</b> 1989-2005 Nursing B.S.N., University of Hawaii; M.S.N., San Jose State University	<b>BRUCE, KENNETH R.</b> 1968-1995 History A.B., M.A., San Jose State University	<b>CHESLER, PAUL B.</b> 1977-2006 Social Sciences B.S., University of Wisconsin; M.A., San Jose State University, Education
<b>MANDY, LISA</b> 2013 Director, Financial Aid and Scholarships B.S., American Intercontinental University		<b>BRUCH, SUSAN</b> 1990-2012 Nursing/Biology B.S., San Jose State University; M.S., University of California, San Francisco	<b>CHUDILOWSKY, BARBARA K.</b> 1985-2001 Mathematics B.A., San Francisco State University; M.S., San Jose State University
		<b>BUCHANAN, ANGELA</b> 1990-2016 Social Sciences B.A., Oberlin College; M.A., Ohio State University; M.A., Ph.D., Stanford University	

## EMERITI FACULTY AND ADMINISTRATORS

# EMERITI FACULTY AND ADMINISTRATORS

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<b>COGNETTA, JOHN S.</b> 1989-2017 Student Activities B.A., University of California, Berkeley; M.S., University of Oregon; Ed.D., University of San Francisco	<b>DOUGHERTY, CHARLES S.</b> 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	<b>FLEMING, JOHN, N.</b> 1980-2007 English as a Second Language A.A., Pasadena City College; B.A., University of California, Berkeley; M.A., San Jose State University	<b>GRIFFIN, ROBERT E.</b> 1994-2008 Vice President, Student Services and Institutional Research B.A., M.S., San Jose State University; Ed.D., University of LaVerne
<b>COLE, MICHAEL</b> 1989-2013 Design/Computer Graphics B.A., California State University, Northridge; M.A., University of California, Los Angeles	<b>DOWDNEY, DONNA</b> 1990-2001 Chair, Technical Communication Department B.A., Wheaton College; M.A., Indiana University; Ph.D., Columbia Pacific University	<b>FORMAN, JEFFREY W.</b> 1978-2014 Adaptive Physical Education B.S., Med., Springfield College, Massachusetts; Ph.D., United States International University	<b>GROBMAN, BETH A.</b> 1987-2011 Journalism/Mass Communication B.A., Pitzer College; M.A., St. Louis University
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<b>COLTRIN, DOROTHY M.</b> 1970-2003 Nutrition B.S., University of California, Berkeley; M.S.P.H., University of California, Los Angeles	<b>DUNIVIN, J. D.</b> 1964-1999 Sociology B.A., M.A., San Jose State University	<b>FOY, RUTH</b> 1970-2001 Coordinator, Health Services B.S.N., Georgetown School of Nursing	<b>HALSEY, HAYWARD (TUCK)</b> 1968-1998 Physical Education B.A., M.A., San Jose State University
<b>COLVARD, JOYCE A.</b> 1975-2004 Computer Applications and Office Systems B.S., University of Tennessee; M.S., North Texas State University	<b>DUNN, LESTER R.</b> 1966-1998 Physics B.A., Lake Forest College; M.S., Illinois Institute of Technology	<b>FREDERICK, VIVIAN R.</b> 1975-1991 Computer Information Systems A.A., Ashland Junior College; B.A., Eastern Kentucky State Teachers College; M.S., San Jose State University	<b>HAM, LEWIS H., JR.,</b> 1979-1994 Director, Admissions and Records B.S., United States Military Academy, West Point; M.A., University of Texas
<b>CONROY, LINDA C.</b> 1987-2018 Child Development Center A.A., De Anza College; B.A., San Jose State University	<b>EDWARDS, JAMES D.</b> 1965-1999 Political Science B.A., Occidental College; M.A., Claremont Graduate School	<b>FRIESEN, JOAN</b> 1999-2014 Learning Disabilities B.A., San Jose State University; M.A., Santa Clara University; M.A., Santa Clara University	<b>HAMER, REGINALD</b> 1985-2010 Mathematics B.S., Lowell University; M.S., Ph.D., New York University
<b>COOPER, MICHAEL J.</b> 1969-2004 B.A., M.A., San Jose State University; M.F.A., University of California, Berkeley	<b>EKNOIAN, GERALD</b> 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	<b>FUNG, DONNA I.</b> 1975-2009 Counseling B.S., M.A., San Jose State University	<b>HAMES, JOANNE</b> 1989-2004 Paralegal/Administration of Justice B.A., J.D., Santa Clara University
<b>CORDERO, JUANITA</b> 2000-2011 Child Development B.A., Holy Names; M.A., Pacific Oaks; M.A., Ph.D., Global Ministry University	<b>ELDER, CHARLES L.</b> 1968-2004 Physical Education B.A., M.A., San Jose State University	<b>GARCIA, PAULA</b> 1976-2008 Child Development Center B.A., M.A., San Jose State University	<b>HANLEY, JAMES R.</b> 1973-2004 Political Science B.A., M.A., San Jose State University
<b>CUNY, ANN WHARTON</b> 1975-1993 P.E./Recreation A.A., Monterey Peninsula College; B.A., M.S., San Jose State University; Ph.D., United States International University	<b>EMERICK, PAUL L.</b> 1970-1989 Computer Information Systems B.M.E., Rensselaer Polytechnic Institute; B.S.C., Salmon P. Chase College; MBA, Xavier University	<b>GEISINGER, JR., WILLIAM L.</b> 1978-2012 Creative Arts A.A., San Joaquin Delta College; B.A., M.A., San Jose State University	<b>HANNA, CASSIE</b> 2006-2014 Nursing B.S., Michigan State University; M.S., University of San Francisco
<b>CUSTODIO, JAMES G.</b> 1972-1995 Counselor A.A., City College of San Francisco; B.A., M.A., San Francisco State University	<b>ENGLE, MICHAEL L.</b> 1975-2008 Machine Tools A.A., San Mateo College; Journeyman Tool and Die Maker; Credential, University of California, Berkeley	<b>GILBERG, RICHARD F.</b> 1991-2001 Computer Information Systems B.A., San Jose State University; M.S., National University	<b>HARPER, KENNETH</b> 1992-2004 Accounting A.A., Mesa Community College; B.S., California Polytechnic State University; M.P.A., University of San Francisco
<b>DAVIES, DAVID H.</b> 1966-1993 Mathematics B.A., Western Washington State College; M.A.T., San Diego State University		<b>GOESLING, WENDELL J.</b> 1975-2012 Psychology A.A., Bakersfield Jr. College; A.B., Fresno State College; Ph.D., University of Tennessee	<b>HARPER, LAURI M.</b> 1974-2001 Counselor A.A., College of Marin; B.A., University of California, Santa Barbara; M.A., Stanford University
		<b>GOLDSBERRY, JAMES</b> 1970-1999 English B.A., M.A., San Diego State University	<b>HARRINGTON, SHERWOOD</b> 1989-2018 Astronomy B.A., Amherst College; M.A., University of California, Berkeley

# EMERITI FACULTY AND ADMINISTRATORS

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<b>HART, THOMAS A.</b> 1973-1988 Music B.A., M.A., San Francisco State University	<b>JOHNSON, JUDITH</b> 1988-2004 Center for Applied Competitive Technologies B.A., The College of Charleston; M.A., Webster University	<b>LEE, ELAINE</b> 1991-2017 Speech B.A., M.A., University of Hawaii	<b>MAIERO, MARCIA SMITH</b> 1990-2014 Physical Education B.A., California State University, Chico; M.S., California State University, East Bay
<b>HASSEL, PATRICIA L.</b> 1969-2012 Medical Assisting/Health Technologies B.S., The University of Phoenix; R.N., Montreal General Hospital	<b>JONES, HELEN B.</b> 1974-1997 Instructor/Enabler, Physically Limited Program A.A., Boston University; B.A., University of Illinois; M.A., Hunter College	<b>LEE-KLAWENDER, CYNTHIA</b> 2000-2017 Computer Science B.A., California State University, Los Angeles; M.S., University of Southern California	<b>MANRIQUEZ, NAPOLEON H.</b> 1977-2006 Director, Assessment Center B.A., San Jose State University; M.A., Ph.D. Stanford University
<b>HAYNES, JAMES H.</b> 1976-2014 Adaptive Physical Education A.A., West Valley College; B.S., M.A., San Jose State University	<b>JONES, RUTH</b> 1983-2012 Child Development Center B.A., San Jose State University	<b>LEE-WHEAT, COLEEN</b> 1990-2017 Dean, Physical Education and Athletics B.S., University of California, Los Angeles; M.S., California State University, East Bay	<b>MATHIOS, DIANE</b> 1996-2016 Mathematics B.A., M.A., University of California, Berkeley
<b>HECTOR, JANICE</b> 1994-2017 Mathematics B.S., M.A., University of California, Davis; MBA, Pace University	<b>JONES-DULIN, DONNA</b> 2001-2016 Associate Vice President, Finance and College Operations B.A., American University; M.A., San Francisco State University	<b>LEE-YEN, ANN</b> 1988-2012 Child Development Center B.A., Taiwan University; M.A., University of Oregon	<b>MAZZUCA, ROBERT G.</b> 1981-2001 Physical Education B.A., College of the Pacific; M.A., University of the Pacific
<b>HEFFNER, SCOTT C.</b> 1976-2012 Political Science B.A., San Jose State University; M.A., Santa Clara University; M.A., San Jose State University	<b>JURIKA, LILLIAN U.</b> 1978-1999 Counselor B.A., University of San Diego; M.A., Stanford University, English; M.A. San Jose State University, Counseling; San Jose State University Certificate, Applied Social Gerontology	<b>LEIGH, ROBERT J.</b> 1972-2003 Automotive Technology B.A., M.A., San Francisco State University	<b>MCCARTHY, JAMES</b> 1976-2007 Dean, Library B.A., California State University, San Bernardino; M.S., University of Southern California
<b>HELFSMAN, SUZANNE</b> 2002-2015 English B.A., M.A., San Francisco State University	<b>KARST, LAURA</b> 2001-2017 French B.A., University of California, Santa Cruz; M.A., San Jose State University	<b>LESKINEN, ANNE L.</b> 1985-2011 Mathematics B.A., M.A., University of Western Ontario	<b>MCDONNELL, BARBARA</b> 1975-1991 Early Childhood Education B.A., M.A., San Jose State University
<b>HENDERSON, BRUCE</b> 1997-2010 English B.A., M.A., English, San Francisco State University; Ph.D., Stanford University	<b>KELLER, INGRID</b> 1963-1992 German A.A., Pasadena City College; B.A., Occidental College; M.A., Stanford University	<b>LETSON, ROGER L.</b> 1979-2007 Music B.M.Ed., M.M., University of Montana	<b>MCNAMARA, MARTIN</b> 1996-2017 Animation B.A., University of Notre Dame; M.A., San Francisco State University
<b>HENDRICKSON, MARY E.</b> 1984-1999 Business and Computer Information Systems B.A., Hamline University; M.S., San Francisco State University	<b>KENDALL, SHIRLEY</b> 1995-2007 Professional and Workforce Development B.A., University of Southern California; M.A., National University	<b>LEWIS, WILLIAM G.</b> 1968-2003 Automotive Technology B.A., M.A., San Jose State University; Journeyman Machinist	<b>MENÉNDEZ, JOSE F.</b> 1985-2016 Director, Printing Services A.A., College of San Mateo
<b>HERMAN, SONDRÁ R.</b> 1966-1992 History, Political Science B.A., Barnard College; M.A., Ph.D., Rutgers University	<b>KLANG, ROBERT</b> 1970-1997 English B.A., M.A., San Francisco State University	<b>LISHA, ZAKI</b> 1974-2013 Film/TV B.A., University of Southern California; M.A., San Francisco State University	<b>MILONAS, FAITH E.</b> 1986-2013 Counselor B.A., Westfield State College; M.S., State University of New York; Ed.D., University of Nevada
<b>HOEFER, LEO A.</b> 1977-1993 Older Adult Services B.A., St. Patrick College; M.A., San Francisco State University; Ph.D., University of Washington	<b>KLEIN, CHARLES S.</b> 1989-2017 Mathematics B.A., Hobart College; M.A. University of Northern Colorado	<b>LINTHICUM, JAMES A.</b> 1965-2004 Physical Education B.S.Ed., Ohio University; M.S., University of Colorado	<b>MILTON, JOHN</b> 1970-2005 English B.A., M.A., San Francisco State University
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<b>HOOKS, SYLVIA</b> 1975-2004 Physical Education B.S., Central State University; M.A., Stanford University	<b>KODA, ANN Y.</b> 1986-2001 Computer Applications and Office Systems B.A., University of California, Berkeley; M.A., San Jose State University	<b>LOPEZ-MORGAN, CHRISTINA A.</b> 1988-2010 Social Sciences A.A., Los Angeles City College; B.A., M.A., Pacific Oaks College	<b>MITCHELL, GLORIA</b> 1976-2004 Psychology A.A., Foothill College; B.A., San Jose State University; M.A., Santa Clara University
<b>HOWARD, CAROL M.</b> 1968-1997 Counseling B.A., Regis College; M.Ed., Boston University	<b>KOVACH-LONG, SANDRA</b> 1976-2017 Special Education A.A., Riverside City Junior College; B.S., M.S., San Jose State University	<b>LUCAS, JAMES S.</b> 1975-2000 B.A., M.A., San Francisco State University; Ed.D., University of California, Berkeley	<b>MOORE, THOMAS O.</b> 1966-1998 Mathematics B.S.E.E., University of California; M.A., San Francisco State University
<b>HUBBS, ROBERT R.</b> 1963-2001 Chemistry B.S., Western Illinois University; M.S., Purdue University	<b>LAMIT, LOUIS G.</b> 1984-2013 Computer Assisted Drafting Program B.S., Western Michigan University	<b>LUOTTO, JAMES A.</b> 1966-2001 English B.A., University of Notre Dame; M.A., Ph.D., Loyola University, Chicago	<b>MORENO, M. CRISTINA</b> 1991-2010 Spanish B.A., M.A., M.S., Indiana University
<b>HUNTER, EBENEZER</b> 1970-2010 African American Studies B.A., M.A., San Jose State University	<b>LASSERRE, YVETTE M.</b> 1991-2001 French A.A., De Anza College; B.A., M.A., San Jose State University	<b>LUPI-WILLIAMS, FRANCES</b> 1970-1991 Physical Therapist Assisting B.S., University of the State of New York; M.A., Stanford University	<b>MORENO, MOSES S.</b> 1972-1993 Chicano Studies A.A., Chaffey College; B.A., M.A., Stanford University
<b>HUNTIMER, LINDA</b> 1973-2006 Learning Disabilities B.A., M.A., Arizona State University; Ed.D., University of San Francisco	<b>LAU, PHILIP K. C.</b> 1972-2007 Psychology B.A., San Francisco State University; M.S.W., University of California, Berkeley	<b>LYNCH, JOHN</b> 2005-2011 Business B.S., University of Mississippi; MBA, Harvard University	<b>MORENO, VICTORIA</b> 1999-2017 Counselor B.A., San Jose State University; M.A., San Jose State University
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<b>JEANPIERRE, LETHA L. W.</b> 1987-2014 Vice President, Finance and College Operations B.S., MBA, University of Colorado			<b>MUHLSTEIN, ELEANOR A.</b> 1983-2002 Teacher, Child Care Program B.A., San Jose State University

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<b>MULLEN, WILLIAM</b> 1972-1999 Automotive Technology B.A., University of Denver	<b>PEARCE, KIMBERLY A.</b> 1987-2013 Speech Communication B.A., Azusa Pacific University; M.A., San Jose State University	<b>QUIRKE, LILLIAN M.</b> 1964-1988 Art B.S., Southern Connecticut State College; M.A., California State University, Long Beach; Ed.D., Teacher's College, Columbia University	<b>SCHROEDER, RICHARD V.</b> 1984-2012 Dean, Physical Education and Athletics B.A., University of California, Berkeley; M.A., San Jose State University
<b>MURPHY, BRIAN</b> 2004-2018 President B.A., Williams College; M.A., Ph.D., University of California, Berkeley	<b>PECORARO, SALVATORE P.</b> 1968-1997 Art A.B.Ed., California College of Arts and Crafts; M.A., San Francisco State University	<b>RAFF, MARGO I.</b> 1980-2017 Counseling B.A., University of Florida; M.A., Michigan State University; M.A., University of San Francisco	<b>SCHWOOB, LESLIE A.</b> 1967-2003 Automotive Technology B.A., M.A., San Francisco State University
<b>NAGEL, WILLIAM</b> 2002-2012 Graphic Design B.A., San Jose State University	<b>PERATA, DONALD A.</b> 1966-1996 Vice President, Student Services; Interim Chancellor B.A., M.A., San Jose State University	<b>RAMIREZ, OSCAR</b> 1973-1993 Vice President, Administrative Services B.A., M.A., California State University, Fresno; Ph.D., United States International University	<b>SCOTT, DANIEL R.</b> 1970-2001 English B.S., M.A., Brigham Young University
<b>NAKASHIMA, WENDY</b> 1982-1997 Child Development Center B.S., Miami University; M.S., Case-Western Reserve University	<b>PERRY, JOHN W.</b> 1989-2011 Computer Information Systems B.A., University of Delaware; M.C., M.S., Arizona State University	<b>RAPPAPORT, STEVEN D.</b> 1974-2007 Philosophy/Economics A.B., University of California, Berkeley; M.A., San Jose State University; Ph.D., University of Toronto	<b>SEKHON, RUPINDER S.</b> 1985-2014 Mathematics B.S., University of San Francisco; M.A., San Francisco State University
<b>NELSON, SHARON S.</b> 1976-2003 Hope-De Anza Vocational Program B.A., Augustana College	<b>PETERSON, DENNIS E.</b> 1968-1997 Biology Division Dean, Biological and Health Sciences (acting) B.A., M.S., Brigham Young University	<b>RASHALL, BENITA</b> 1977-2008 Physically Limited Counselor/Enabler B.S., University of California, Berkeley; M.S., San Francisco State University	<b>SETZIOL, PAUL L.</b> 1981-2017 Music B.M., M.M., D.M.A., University of Oregon
<b>NICHOLS, BARBARA</b> 1977-1990 Older Adult Services A.A., Foothill College; B.A., San Jose State University; M.A., Santa Clara University	<b>PEURIFOY, BARBARA</b> 2006-2011 Nursing B.S., California State University, Dominiguez Hills; M.S., University of Phoenix	<b>REDD, JANET F.</b> 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	<b>SKYLES, WILLIAM V.</b> 1962-1989 English B.A., De Paul University; M.A., University of Chicago
<b>NICKEL, DONALD</b> 2001-2017 Counseling B.A., M.A., San Jose State University	<b>PHILLIPS, JULIE</b> 1993-2015 Morgan Family Endowed Chair in Environmental Studies/Instructor Biological Sciences B.A., California State University, Chico; M.A., San Jose State University	<b>REID, BARBARA</b> 1977-1989 Vice President, Instruction B.A., State University of Iowa; M.A., Ed.D., University of Northern Colorado	<b>SMITH, ELEANOR A.</b> 1968-1989 Counselor A.A., Green Mountain College; B.S., University of New Hampshire; M.S., University of Colorado
<b>NIELSEN, M. LANCE</b> 1975-2006 A.A., Diablo Valley Junior College; B.S., California State University, East Bay; M.A., San Jose State University	<b>PHILLIPS-PROUTY, BARBARA J.</b> 1964-1993 Counseling, Physical Education B.S., Wheaton College; M.A., Colorado State College	<b>RESSA, GARY</b> 1967-1997 Counseling B.S., San Jose State University; M.A., Stanford University	<b>SMITH, WENDY</b> 1989-2004 Child Development Center B.S., Pennsylvania State University; M.Ed., University of Pittsburgh
<b>NORRIS, MARCIA</b> 1991-2001 High Tech Center Training Unit B.A., University of Alabama; M.A., English, M.A., Education, San Jose State University	<b>PICHON, ULYSSES A.</b> 1975-2009 English/Reading B.S., Xavier University of Louisiana; M.A., San Jose State University	<b>STANN, SUSAN S.</b> 1988-2007 English as a Second Language TESOL Certificate - Linguistics, San Jose State University; B.A., M.A., University of Michigan	<b>SOLER, FRANCISCO</b> 1985-2011 Mathematics B.S., University of New Mexico; M.S., University of Oklahoma
<b>NUNES, ANTHONY J.</b> 1966-1992 Physical Education A.A., College of the Sequoias; B.S., M.S., California State Polytechnic College	<b>PLUM, KATHRYN S.</b> 1989-2015 Mathematics B.S., Montana State University; M.S.I.E., M.S.Q.A., San Jose State University	<b>SPENCER, LEROY G.</b> 1975-2000 Automotive Technology	<b>SPENCER, WILLIAM A.</b> 1976-2001 Language Arts B.S., Louisiana Southern University; M.A., San Francisco State University
<b>O'BRIEN, FAY</b> 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	<b>POGGI, CLAUDINE</b> 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	<b>SPENCER, WILLIAM A.</b> 1976-2001 Language Arts B.S., Louisiana Southern University; M.A., San Francisco State University	<b>SPLITTER, RANDOLPH N.</b> 1989-2011 English/Composition B.A., Hamilton College; B.A., University of California, Santa Cruz; Ph.D., University of California, Berkeley
<b>O'DONNELL, DANIEL J.</b> 1968-1995 Computer Information Systems B.S.C., MBA, University of Santa Clara	<b>POKLEWSKI DABROWSKA, ANNA</b> 1977-2013 Music B.A., Myceum-Music,; M.A., Yagellonian University; L.R.A.M., Royal Academy of Music	<b>ROSSI, DONALD E.</b> 1969-1999 Mathematics A.B., University of California, Berkeley; Ed.M., Harvard University; M.A., University of California, Berkeley	<b>STERN, DEBORAH R.</b> 1986-2008 B.A., University of California, Berkeley; M.S., California State University, San Francisco
<b>OLEJNICZAK, PAUL</b> 2000-2016 Meteorology/Astronomy B.S., M.S., Duquesne University	<b>POTTER, LEROY C.</b> 1965-1993 Engineering B.S., Drexel Institute of Technology; M.S., Stanford University	<b>ROWE, JAMES K.</b> 1968-1996 Counselor A.B., Occidental College; M.A., Stanford University	<b>STEMLER, ANN B.</b> 1977-2004 Biology B.S., M.S., Ph.D., University of Illinois
<b>ONEY, ANNE W.</b> 1985-1999 Dean, Business and Compute Science Division B.A., Cornell University; M.A., San Jose State	<b>PRITCHARD, WILLIE</b> 2006-2008 Academic Coordinator B.A., Duke University; M.A., Antioch University	<b>SANDELMAN, PEARL B.</b> 1975-1992 Business B.A., M.A., San Jose State University	<b>STERNLIEB, MYRA B.</b> 1975-1999 Nursing/Health R.N., B.S.N., Ohio State University; M.S., San Francisco State University
<b>PABON, TONY</b> 1981-1997 Mathematics A.B., M.S., California State University, Los Angeles	<b>QUARATO, PATRICIA S.</b> 1992-2008 Biology B.S., Virginia Commonwealth University/Medical College; M.S., University of Southern California	<b>SCHAFFER-BRAUN, DEBI</b> 1976-2014 Physical Education B.S., M.S., California State University, East Bay	<b>STEVENS, MARGARET L.</b> 1992-2016 History A.A., De Anza College; B.A., University of California, Berkeley; M.A., San Jose State University
<b>PARKER, GERALDINE</b> 1993-2013 Native American Studies B.A., California State University, East Bay	<b>QUENON, LOUISE</b> 1970-1998 Biology B.A., University of California, Berkeley; M.A., University of Wisconsin	<b>SCHAFFER, KARL</b> 1989-2017 Mathematics B.S., University of Alabama; M.A., Ph.D., University of California, Santa Cruz	
<b>PATTERSON, NORMA</b> 1971-1986 Nursing B.S., University of Oregon; M.S., University of California			
<b>PATTON, MARILYN</b> 1991-2013 English/Composition B.A., Stanford University; M.A., Ph.D., University of California, Santa Cruz			

# EMERITI FACULTY AND ADMINISTRATORS

<b>STOKES, PHILLIP F.</b> 1964-2000 English, English as a Second Language, Reading, Speech, Linguistics B.A., M.A., San Francisco State University	<b>TONG, HOMER H. C.</b> 1977-2017 Chemistry B.A., California State University, Chico; M.S., Oregon State University	<b>WAGNER, WESLEY W.</b> 1975-1997 HOPE Vocational Program B.A., Washington State University; M.S., Portland State University	<b>WILLIAMS, JAMES C.</b> 1985-2004 History B.A., University of Oregon; M.A., San Jose State University; Ph.D., University of California, Santa Barbara
<b>STOLL, EDWINA L.</b> 1986-2009 Speech/Communication B.A., Linfield College; M.A., University of Hawaii; Ph.D., University of Utah	<b>TOOTHMAN, GARY L.</b> 1978-2001 Automotive Technology B.A., Indiana State University; M.A., San Jose State University	<b>WALKER, CHARLES A.</b> 1967-1993 Art A.A., Contra Costa College; B.A., San Francisco State University; M.A., San Jose State University	<b>WILLIAMS, RICHARD</b> 1989-1999 Drafting CAD A.A., Bakersfield College; B.A., M.A., San Jose State University
<b>STRAUSS, RAYMOND C.</b> 1961-1985 Mathematics B.S., M.S., University of Chicago	<b>TORRES, LAUREL</b> 1996-2013 Counseling R.N., A.D.N., College of San Mateo; B.A., University of California, Davis; M.S., California State University	<b>WALKER-ABSHIRE, TISA</b> 1989-2005 Anthropology B.A., M.A., Stanford University	<b>WILSON, CAROLYN</b> 1993-2004 B.A., California State University, Los Angeles
<b>STRINGER, DAVID D.</b> 1981-2011 Business B.S., San Jose State University; MBA, Golden Gate University, San Francisco	<b>TRAVIS, BARBARA B.</b> 1977-1995 Associate Director, Reading Skills, Readiness Lab B.A., Edinboro State College; M.A., Teachers' College, Columbia University	<b>WALLACE, RUTH A.</b> 1961-1981 Coordinator, Work Experience Education B.A., University of California; M.A., San Jose State University	<b>WINTERS, MARION</b> 1990-2009 Diversity Office/Intercultural/International Studies B.A., San Jose State University; M.S., San Francisco State University; MBA, San Jose State University
<b>STURM, J. BRUCE</b> 1976-2000 English B.A., Villanova University; M.A., Stanford University; M.A., Santa Clara University	<b>TREJO, PAUL E.</b> 1961-1989 Astronomy, Engineering B.S., University of Southern California; B.S., U.S. Naval Post Graduate School; M.A., San Jose State University	<b>WALSH, PATRICIA A.</b> 1975-1989 History B.A., Queens College; M.Ed., D.Ed. University of California, Los Angeles	<b>WOMER, CHARLES E.</b> 1975-2000 Business B.S., University of California, Berkeley; M.P.H., University of California; MBA, San Jose State University
<b>SULLIVAN, KRISTIN</b> 2002-2017 Environmental Studies B.S., M.S., San Jose State University	<b>TRIMBLE, JEAN C.</b> 1966-1990 Nursing A.A., American River Junior College; B.S., Stanford University; M.S., University of California	<b>WANLASS, JOHN W.</b> 1974-2009 Accounting and Computer Information Systems B.A., M.A., Brigham Young University	<b>WONG, LETTY</b> 1992-2017 English as a Second Language A.A., San Francisco City College; B.A., M.A., San Francisco State University
<b>SULLIVAN, MICHAEL G.</b> 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	<b>TURNER, WILLIAM</b> 1998-2011 Reading B.A., M.A., California Polytechnic State University	<b>WARNOCK, RON</b> 1998-2004 Dean, Physical Education B.S., State University of New York, Cortland; M.S., Washington State University; Ph.D., Florida State University, Tallahassee	<b>WOOD, RICHARD</b> 1996-2008 Sociology B.A., M.A., West Virginia University
<b>SULLIVAN, NELL D.</b> 1970-1993 English B.A., M.A., University of California, Berkeley	<b>VACIO, ALEJANDRO V.</b> 1991-2001 Physical Education/Athletic Director B.A., San Jose State University; M.S., California Polytechnic State University	<b>WASSMAN, ROSE MARIE M.</b> 1971-1997 English, Reading Improvement B.A., M.A., Wayne State University	<b>WOOD, SARAH D.</b> 1989-1999 Reading B.A., Stanford University; M.A., Yale University
<b>SWENSSON, JOHN</b> 1989-2012 English B.A., U.S. Military Academy, West Point; B.A., University of Northern Colorado; M.A., University of Virginia	<b>VANNIASEGARAM, GNANALAKSHMI</b> 1991-2010 Mathematics B.S., University of Colombo, Sri Lanka; M.S., University of California, Santa Cruz	<b>WEGMAN, ROBERT W.</b> 1974-1999 Physical Education B.A., San Jose State University; M.A., Stanford University	<b>WOODWARD, CHERYL</b> 1986-2015 Counseling B.A., M.A., San Jose State University
<b>TACANG, LEROY J.</b> 1972-2004 Art B.A., M.A., San Jose State University	<b>VICIAN, THOMAS A.</b> 1968-2004 Philosophy B.A., Luther College; M.Th., Luther Theological Seminary; Ph.D., Claremont University Center	<b>WERNER, JEAN</b> 1975-2006 Counseling B.A., University of California, Berkeley; M.A., San Diego State University	<b>WRENN, BRUCE G.</b> 1974-1992 Mathematics B.S.M.E., University of Cincinnati; M.S.M.E., University of Southern California; Ph.D. Stanford University
<b>TAKAHASHI, JANET</b> 1974-2014 Learning Disabilities B.A., Mills College; M.A., San Francisco State University	<b>WAATHIQ, PAULINE</b> 1974-2007 Learning Disabilities B.A., Indiana University; M.Ed., University of Pittsburgh	<b>WEST, LINDA</b> 1985-2013 Business Office Technology B.S., M.A., San Jose State University	<b>YASUDA, PHYLLIS S.</b> 1974-1998 Business B.A., M.A., San Jose State University
<b>TANDOC, NELSON E.</b> 1968-1997 Music B.M., University of Oregon; M.A., University of Washington	<b>WAGNER, DEBORAH</b> 2003-2013 Medical Technology B.S., University of Iowa	<b>WEUSI-PURYEAR, MUATA</b> 1987-2008 Mathematics B.S., Monmouth College; M.S., New Mexico State University; Ph.D., Stanford University	<b>YECKLEY, PAULINE</b> 1986-2015 Library B.A., M.A., Michigan State University; M.A., University of Michigan
<b>THOMAS, HUGH S.</b> 1966-1998 Political Science B.Sc. (Econ), London University, London School of Economics; M.A., San Jose State University		<b>WHITE, STEPHEN J.</b> 1971-1994 Physical Therapist Assisting B.S., St. Lawrence University; M.A., Stanford University	<b>ZARECKY, GARY</b> 1983-2015 Physical Education B.A., California State University, Chico; M.A., Azusa Pacific University
		<b>WILLIAMS, HILLIS P.</b> 1968-1983 Theatre Arts A.B., McPherson College, Kansas; M.A., Northwestern University	



## CLASSIFIED STAFF

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	<b>BURLANESCU, LIDIA</b> Biology	2016	<b>DIGIULIO, LIZ</b> Massage Therapy	2015	<b>GILBERTSON, K. DOROTHY</b> Adapted Physical Education	2005
<b>ABAD, SOFIA</b> Occupational Training Institute		1989	<b>DOAN, MICHELLE</b> Physical Sciences, Math & Engineering	2000	<b>GILLELAND, MAX</b> Design and Manufacturing Technologies	2002
<b>ABBRUSCATO, JOHN</b> Educational Technology Services	<b>CABRERA, DEBORAH</b> Deaf and Hard of Hearing Services	2014	<b>DOWLING JR., PATRICK M.</b> Student Success Center	2005	<b>GILLETT, DAVID</b> Educational Technology Services	2002
<b>AGEE, DORIS FERRIS</b> Health Services	<b>CACERAS, ANTHONY</b> Financial Aid	2016	<b>DUONG, GIOI</b> College Operations	2010	<b>GILMORE, JOSEPH</b> Admissions and Records	2017
<b>AGUILAR, LENNY A.</b> Adapted Physical Education	<b>CALE, DONNA</b> Disability Support Programs and Services	2014	<b>DUQUE, INGRID FELK</b> Occupational Training Institute	2007	<b>GONZALEZ, SABRINA</b> Academic Adviser	2016
<b>AGUILAR, MELISSA</b> Language Arts	<b>CARDOZA, SANDRA</b> Learning Resources	2008	<b>ECHEVERRIA, ARMANDO</b> Adapted Physical Education	2005	<b>GORE, SALLY</b> Operations	1989
<b>ALAMBAN, CARLITA</b> Occupational Training Institute	<b>CARUANA, TRACY</b> Educational Diagnostic Center	2017	<b>EDMAN, SUSAN</b> Language Arts	1989	<b>GREENE, LILY</b> Extended Opportunities, Programs and Services	1988
<b>ALDERETE, CONCEPCION</b> College Operations	<b>CARUNGAY, EDWIN</b> Communications	2017	<b>ENGLIN, MARY KAY</b> Professional Development	1982	<b>GUST, MYRNA</b> Child Development Center	2015
<b>ANTHONY, RYAN</b> Educational Technology Services	<b>CASTILLO, MARIA</b> College Operations	2001	<b>ESQUIVEL MORENO, ANGÉLICA</b> Academic Services	2017	<b>GUZMAN, CLAUDIA</b> Counseling	2016
<b>APARICIO, VERONICA</b> Admissions and Records	<b>CERVANTES, EMIGDIO</b> College Operations	2008	<b>ESPINO, AGUSTIN</b> Design and Manufacturing Technologies	2017	<b>HARRELL, ALEX</b> Communications	2015
<b>APPARAO, VENKATARAM</b> Automotive Technology	<b>CERVANTES, LETICIA</b> College Operations	1999	<b>ESTRADA, ALFREDO</b> College Operations	2001	<b>HATT, LISA</b> Library	2000
<b>ARAUJO, KIARA</b> Admissions and Records	<b>CHACKO, VINS</b> Academic Services	2017	<b>EVERT, OLGA</b> Instruction	2008	<b>HAWTHORN, MARGARITA</b> Community Education	2002
<b>ARGABRITE, DIANA</b> Euphrat Museum of Art	<b>CHAND, SUSHINI</b> Counseling	2017	<b>FAYEK, AMIR</b> Educational Technology Services	2018	<b>HEIN, GEORGE</b> Language Arts	1997
<b>ARMSTRONG, DEBORAH</b> Disabled Student Programs and Services	<b>CHANG, MI</b> Curriculum/Scheduling	2002	<b>FERREIRA, EDUARDO</b> Custodial	2018	<b>HERNANDEZ, FRANCISCO</b> College Operations	2015
<b>ASKINS, MICHAEL</b> Planetarium	<b>CHAPMAN, STACY</b> Deaf and Hard of Hearing Services	2005	<b>FERRER, MARK</b> Disabled Student Programs and Services	2014	<b>HERNANDEZ, JUAN HERNANDEZ</b> College Operations	2006
<b>AVILA-CORTES, RENE</b> Utilities	<b>CHENEY, MELODIE</b> Admissions and Records	1998	<b>FIELDS, SHELDON</b> Counseling	2018	<b>HERNANDEZ, NANCY</b> Disabled Student Programs and Services	2014
<b>AYERS, BILL</b> Educational Technology Services	<b>CHING, LARRY</b> Communications	2007	<b>FLORES, ERIKA</b> Student Success and Support Program	2016	<b>HERNANDEZ MAZARIEGOS, MARIA</b> Student Development	2016
<b>BAEZ-ACEVEDO, MIGUEL</b> Operations	<b>CHO, HUA-CHING</b> Child Development Center	2014	<b>FOSNAUGH, MICHAEL</b> Disabled Student Programs and Services	2001	<b>HILER, LAURA</b> Financial Aid	2016
<b>BAILEY, BRANDON</b> Communications	<b>CHUNG-TABANGCURA, TRACY</b> Articulation and Transfer Services	2000	<b>FRAGOZA, ROSA-ANN</b> Health Services	2017	<b>HIRATA, LUCILA</b> Child Development Center	2007
<b>BAILEY, THOMAS</b> Nursing	<b>CLARK-TILLMAN, MARY</b> Curriculum	1999	<b>FRANCO, KAREN</b> Deaf and Hard of Hearing Services	2007	<b>HO, SUSAN</b> Physical Education	2001
<b>BAKER, AARON</b> Sculpture	<b>CONTRERAS, ADAM</b> College Operations	2008	<b>FUENTES, MARTIZA</b> Child Development Center	2014	<b>HO, TRUNG</b> Disabled Student Programs and Services	2015
<b>BALUTA, RENEE</b> Admissions and Records	<b>CONTRERAS, DIANA</b> Assessment	2005	<b>FUKUYAMA, KIMBERLY T.</b> Educational Diagnostic Center	2006	<b>HUNTER, KAREN KAY</b> Financial Aid	2005
<b>BARRON, MARITZA</b> Child Development Center	<b>COOKE, JOSEPH</b> Grounds	2007	<b>GALVAN, GRACY</b> Community Education	2018	<b>HUNTZE, JUSTINE</b> Financial Aid	2018
<b>BAYS, CHING</b> Physical Sciences, Math and Engineering	<b>CORDOBA ROBYN, INES</b> International Student Services	2016	<b>GALINDO, MICHAEL</b> Disabled Student Programs and Services	2016	<b>HUYNH, ANDY</b> Assessment	2007
<b>BDZIL, MARGARET</b> Workforce Development	<b>CORPUZ, ANNETTE</b> Academic Services and Learning Resources	1989	<b>GARCIA, ADRIANA</b> Equity, Social Justice and Multicultural Education	2016	<b>HUYNH, CHANEL</b> Student Success Center	2017
<b>BICHLER, SILVIA</b> Creative Arts	<b>CORRALES, FRANTIE</b> College Operations	1997	<b>GARRIDO, DAVID</b> Online Education	1991	<b>INGALLS, MELISSA</b> Biological, Health and Environmental Sciences	1996
<b>BONNER, CHRISTIAN</b> Creative Arts	<b>CUEVAS-MACIAS, NITZYA</b> Transfer Center	2016	<b>GERARD, TERI</b> Budget and Personnel	2007	<b>IZU, THOMAS</b> California History Center	1994
<b>BOOYE, MARILYN</b> Disability Support Programs and Services	<b>DAVIDSON, HAYLEY</b> International Student Programs	2016	<b>GERARDO, PRECIOUS</b> Physical Education	2014	<b>JACKSON, PRESLEY</b> Chemistry	2018
<b>BREAULT, EDWARD</b> Creative Arts	<b>DEBLER, NORBERT</b> Educational Technology Services	1997	<b>GHAMRAWI, ABDUL</b> Business, Computer Science and Applied Technologies	2010	<b>JENSEN, ROSEMARY C.</b> Deaf and Hard of Hearing Services	2007
<b>BRICMONT, KRISTINE</b> Child Development	<b>DEL RIO, PATRICIA</b> Counseling	2017	<b>GIBSON, PIPPA</b> Administrative Services	2001	<b>JOHNSON, BARRY</b> Admissions and Records	1996
<b>BROWN, JAYME</b> Bookstore	<b>DIBERNARDO, JACQUELINE</b> Financial Aid	2015				
<b>BURDICK, MARIVIC</b> College Operations	<b>DICKARD, JEFFREY</b> Admissions and Records	2006				

# CLASSIFIED STAFF

<b>JONES, CJ</b> Physical Education	2001	<b>LIANG, LILY</b> Printing Services	2006	<b>NGUYEN, BACHLAN</b> Business, Computer Science and Applied Technologies	1984	<b>ROWE, TERRANCE</b> Educational Technology Services	2002
<b>KAHLER, VICTORIA</b> Student Success Center	2011	<b>LING, LIN</b> International Student Programs	2018	<b>NGUYEN, DUC</b> College Operations	1998	<b>ROY, BRANDY</b> College Operations	2012
<b>KANAFA, SYLWIA</b> Child Development Department	2014	<b>LIPSIG, JOSEPH</b> Occupational Training Institute	2012	<b>NGUYEN, HENRY</b> Cashiering Services	2000	<b>ROY, TERESA</b> College Operations	2014
<b>KANG, EUNSOOK</b> Creative Arts	2006	<b>LOCKWOOD, TINA</b> College Operations	2016	<b>NGUYEN, HUYNH-LINH</b> Health Technology	2018	<b>RUEDA, JOSE</b> Educational Technology Services	1985
<b>KASKOWITZ, LOUIS</b> Disabled Student Programs and Services	2017	<b>LONBANI, PARVIN</b> Child Development	2013	<b>NGUYEN, JENNIFER</b> Student Accounts	1985	<b>RUEDA, SYLVIA</b> Health Services	1989
<b>KAUR, SATINDER</b> Biological, Health and Environmental Sciences	2014	<b>LOVDAHL, ELI</b> Testing and Assessment	2017	<b>NGUYEN, LESLIE</b> Social Sciences/Humanities	1997	<b>RUELAS, CLAUDIA</b> Financial Aid	2013
<b>KAUWELOA, AMELIA</b> Health Services	2018	<b>LU, SHAN</b> Educational Technology Services	2000	<b>NGUYEN, STEVEN</b> Communications	2016	<b>RUELAS, JESUS</b> Outreach	2015
<b>KAVANAUGH, NATHAN</b> Library Services	2015	<b>LUIS, MELISSA</b> Counseling	2017	<b>NGUYEN, THAO PHUONG</b> Financial Aid	2006	<b>SABAWI, OLA</b> Institutional Research and Planning	2018
<b>KENNEDY, DANA</b> Business, Computer Science and Applied Technologies	2015	<b>MACHADO, MARIA</b> Campus Center	2015	<b>NINE, NILA</b> College Operations	2012	<b>SALAS, GREGORY</b> Disabled Student Programs and Services	2016
<b>KERSMAN, LISA</b> Financial Aid	2017	<b>MADANI, MELIKA</b> Physical Sciences, Math and Engineering	2018	<b>O'KEEFE, FAY M.</b> Child Development Center	2006	<b>SALAZARES, MARIA</b> College Operations	1995
<b>KHA, BACHMAI</b> Business, Computer Science and Applied Technologies	1995	<b>MAGALLON CERVANTES, SANDRA</b> Financial Aid	2018	<b>OUK, SAMASATHY</b> Food Services	2014	<b>SANCHEZ, AMELIA</b> Testing and Assessment	1995
<b>KHINE, AYE</b> Child Development	2013	<b>MALBOUBI, YASMINE</b> Assessment Center	2017	<b>PABROS, ANGELITA</b> Academic Services	2001	<b>SANCHEZ, NUBIA</b> Outreach	2015
<b>KIM, YUME</b> Educational Diagnostic Center	2016	<b>MARKOV, ANNA</b> Disabled Student Programs and Services	2018	<b>PACHECO, MIGUEL</b> Bookstore	2014	<b>SANCHEZ, RITA</b> Child Development Center	2002
<b>KING, HEIDI</b> Online Education	2015	<b>MARTINEZ, DIANA</b> Environmental Sciences	2007	<b>PAHL, HANNAH</b> Deaf and Hard of Hearing Services	2002	<b>SANTA ANA, TONY</b> Equity, Social Justice and Multicultural Education	2015
<b>KIRK, LISA</b> Student Accounts	1994	<b>MARTINEZ, TOMAS</b> Bookstore	2015	<b>PARKER, ARLYNN</b> Administrative Assistant II	2015	<b>SANTACRUZ, ANDREA</b> Counseling	2007
<b>KIRKPATRICK, KERI</b> Learning Resources	2006	<b>MATHIR, YUSUF</b> Educational Technology Services	2000	<b>PARTIDA-FLETES, JESUS</b> College Operations	1997	<b>SCHOOLER, SHIRLEY</b> Disabled Student Programs and Service	1992
<b>KOMATSU, TOSHI</b> Planetarium	2016	<b>MAYNARD, LORNA</b> Automotive Technology	1991	<b>PASQUALI, SHARI</b> Admissions and Records	2008	<b>SCHOTT, THOMAS</b> Film/TV	1987
<b>KONG, JOHN</b> College Operations	2000	<b>MCGILL, CONNOR</b> HOPE	2017	<b>PEN, SOTHA</b> Food Services	2016	<b>SERNA, STEPHANIE</b> Occupational Training Institute	2015
<b>KONG, YUKBING</b> College Operations	1997	<b>MEDRANO, MARY</b> Intercultural Studies	2017	<b>PENG, QUAN</b> Counseling	2006	<b>SERRANO, MARIA</b> Food Services	1989
<b>KRUN, MELODY</b> Adapted Physical Education	2018	<b>MELL, BONNIE</b> Biological, Health and Environmental Sciences	1987	<b>PERALES, KIT</b> Budget and Personnel	2014	<b>SHANNAKIAN, DENNIS</b> College Life	1999
<b>KULUSICH, KRISAN</b> Health Services	2011	<b>MENDES, EDUARDO</b> College Operations	2014	<b>PHAM, STEPHANIE</b> Learning Resources	1989	<b>SMITH, CYNTHIA</b> Budget and Personnel	1989
<b>KUO, YUAN</b> Learning Resources	2004	<b>MOLINA, CASSANDRA</b> Community Education	2018	<b>PHAM, THIEU BAO</b> Educational Technology Services	2002	<b>SOUSA, JASON</b> College Operations	2013
<b>LA GRANGE, ERIK</b> Educational Technology Services	1998	<b>MONSELL, CATHLEEN</b> Physical Sciences, Math and Engineering	2012	<b>PHAN, DUC</b> Printing Services	1987	<b>SOUSA, ROSA</b> College Operations	2002
<b>LAM, PHONG</b> Business, Computer Science and Applied Technologies	2008	<b>MOREANOFERREL, MARVIN</b> Student Success Center	2010	<b>QUIDACHAY, JERALD</b> Custodial	2018	<b>STEINER, CHRISTA</b> Evaluation Specialist	2016
<b>LAM, TRACY</b> Academic Services and Learning Resources	2006	<b>MUNSON, KATHLEEN</b> Library	1997	<b>QUIDACHAY, JESSICA</b> College Operations	2005	<b>STEWART, SABRINA</b> Occupational Training Institute	2013
<b>LAMBERTY, MEGHAN</b> Child Development Center	2012	<b>NAKAHARA, CHRISTINE</b> Deaf and Hard of Hearing Services	2009	<b>RABBITT, PETER</b> Physical Education	2000	<b>STOECKLE, SHARON</b> Bookstore	1984
<b>LARGENT, ALLISON</b> International Student Programs	2007	<b>NAKAYAMA, CINDY</b> Admissions and Records	1998	<b>REICHMUTH, CRISTIN</b> Community Education	2016	<b>STRONGONE, ANGELICA</b> International Student Programs	2000
<b>LE, CHUONG</b> Extended Opportunities, Programs and Services	2002	<b>NAVARRO, MELECIA</b> Extended Opportunities Programs and Services	2015	<b>ROBLES, GEORGE</b> Extended Opportunities Programs and Services	1978	<b>STRUVE, JOHN</b> Food Services	2015
<b>LEE, CYNTHIA</b> Adapted Physical Education	2013	<b>NELSON, LEIF</b> District Police, De Anza	1994	<b>RODERIQUES, IVAN</b> College Operations	1995	<b>SUPNET, DARWIN GIOVANNI</b> Health Services	2017
<b>LEE, JENNIFER</b> Admissions and Records	2016	<b>NEWELL, MALLORY A.</b> Institutional Research	2010	<b>RODRIGUEZ, AMBROCINE</b> Outreach	2014	<b>SUSI, LORI</b> Communications	1990
<b>LEVIN, REBECCA</b> Counseling	1999	<b>NG, JOSEPH</b> International Student Programs	2002	<b>RODRIGUEZ, ANNA</b> Counseling	2016	<b>TAYLOR, DEBORAH</b> Nursing	2017
				<b>RODRIGUEZ, JORGE</b> Cashiering Services	1998	<b>TE, KIM</b> Scheduling	2002

## CLASSIFIED STAFF

<b>THAI, TRUNG</b> Learning Resources	1998	<b>VALENTINE, GARY</b> Financial Aid	2013	<b>VILLALBA, KAREN</b> Child Development	2006	<b>WHYTE, BERTHA</b> Financial Aid	2016
<b>THANH, QUANG</b> Learning Resources	2001	<b>VAN, HOANG</b> Educational Technology Services	1997	<b>WANG, SHUYAN</b> Child Development	2006	<b>WIDIARTA, ERWIN</b> Educational Technology Services	2002
<b>TOMALINAS, ROBERT</b> Admissions and Records	2006	<b>VAN, NINA</b> Financial Aid	2003	<b>WARD, GINA</b> Admissions and Records	2015	<b>WINN, CHRISTIAN</b> Campus Facilities	2018
<b>TRAN, HUNG</b> Educational Technology Services	1996	<b>VANZANDT, ALYSSA</b> Creative Arts	2018	<b>WATSON, LAURA</b> Student Services	2015	<b>WINN, MONIKA</b> Bookstore	1988
<b>TRAN, TRANG</b> Food Services	2015	<b>VARELA, SOFIA</b> Child Development Center	2006	<b>WEINER, JESSICA</b> Child Development	2013	<b>WRIGHT, BILL</b> Child Development Center	2006
<b>TRINH, LAN</b> Extended Opportunities Programs and Services	2002	<b>VEGA, JOAQUIN</b> College Operations	2015	<b>WELLS, DANIELLE</b> Office of President	2018	<b>YUMORI-KAKU, LA DONNA</b> College Life	1979
<b>TROSPER, MATT</b> Athletics	1989	<b>VELA, JENNY</b> Online Education	2012	<b>WEN, CHIA C.</b> Creative Arts	2010	<b>YUVARAJ, DEEPA</b> Academic Services	2014
<b>VACHHARAJANI, TANUSHREE</b> Educational Diagnostic Center	2017	<b>VELEZ-MONTALVO, LISA</b> Admissions and Records	2018	<b>WHEAT, CASIE</b> Assessment Center	2005	<b>ZHU, YALI</b> Flea Market Coordinator	2012
<b>VALENCIA SUDA, KANAOKO</b> Learning Resources	2007	<b>VICTORIANO, MAURICE</b> Custodial	2017	<b>WHELAN, PATRICIA</b> Disabled Student Programs and Services	2001	<b>ZINK, PAUL</b> Educational Technology Services	1987





# DE ANZA COLLEGE ADMINISTRATION



**CHRISTINA  
ESPINOSA-PIEB**  
Interim President



**LORRIE RANCK**  
Acting Vice President,  
Instruction



**ROB MIESO**  
Vice President,  
Student Services



**SUSAN CHEU**  
Vice President,  
Administrative Services

## DE ANZA COLLEGE ADMINISTRATION

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Associate Vice President, College Operations  
 Associate Vice President, Communications and External Relations  
 Associate Vice President, Instruction  
 Associate Vice President, Student Services  
 Dean, Biological, Health and Environmental Sciences  
 Dean, Business, Computer Science and Applied Technologies  
 Dean, Community Education  
 Dean, Counseling and Student Success  
 Dean, Creative Arts  
 Dean, Disability Support Programs and Services  
 Dean, Enrollment Services  
 Dean, Equity and Engagement  
 Dean, Intercultural/International Studies  
 Dean, Language Arts  
 Dean, Physical Education and Athletics  
 Dean, Physical Science, Math and Engineering  
 Dean, Social Sciences and Humanities  
 Dean, Student Development and EOPS/CARE  
 Director, Bookstore and Printing Services  
 Director, Campus Center  
 Director, Child Development Center  
 Director, College Fiscal Services  
 Director, Financial Aid and Scholarships  
 Director, STEM Success Program  
 Manager, Operations

**Pam Grey**  
**Marisa Spatafore**  
**Vacant**  
**Vacant**  
**Anita Muthyala-Kandula**  
**Moaty Fayek**  
**Sam Bliss**  
**Sheila White-Daniels**  
**Vacant**  
**Stacey Shears**  
**Vacant**  
**Alicia Cortez**  
**Edmundo Norte**  
**Thomas Ray**  
**Vacant**  
**Jerry Rosenberg**  
**Carolyn Wilkins-Greene**  
**Michele LeBleu-Burns**  
**Kelly Swanson**  
**Patrick Gannon**  
**Naoko Harada**  
**Martin Varela**  
**Lisa Mandy**  
**Yvette Campbell**  
**Manny DaSilva**

(FALL 2018)

# FOOTHILL-DE ANZA COMMUNITY COLLEGE DISTRICT BOARD OF TRUSTEES



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CASAS



PEARL  
CHENG



PETER  
LANDSBERGER



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GILBERT  
WONG

## FOOTHILL-DE ANZA COMMUNITY COLLEGE DISTRICT ADMINISTRATION

### Chancellor

#### Administrative Offices

- Vice Chancellor, Human Resources/Equal Opportunity
  - Director, Benefits
  - Director, Human Resources
- Vice Chancellor, Technology
  - Director, Information Systems and Operations
  - Director, Networks and Client Services
  - Executive Director, Institutional Research and Planning
- Vice Chancellor, Business Services
  - Director, Budget Operations
  - Director, Bond Program
  - Director, Environmental Health and Safety
  - Director, Purchasing, Contracts and Risk Management
  - Director, Risk Management
  - Executive Director, Facilities and Operations
  - Associate Director, Facilities and Operations – De Anza
  - Executive Director, Fiscal Services
- Executive Director, Foundation
  - Assistant Director, Foundation
  - Director of Development, Foundation – De Anza
- Chief of Police
  - Assistant Chief of Police

### Judy Miner

- Dorene Novotny
- Christine Vo
- Myisha Washington
- Joseph Moreau
- Chien Shih
- Sharon Luciw
- David Ulate
- Kevin McElroy
- Sirisha Pingali
- Tom Armstrong
- Karen Lauricella
- Maria Contreras-Tanori
- Vacant
- Steve Kitchen
- Richard Roodbeen
- Raquel Puentes-Griffith
- Tess Chandler
- Robin Latta
- Dennis Cima
- Ron Levine
- 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 Morphine	High/High High/High	Oral, smoked Oral, smoked, injected	3-6 3-6	Euphoria Drowsiness, respiratory depression Constricted (pin-point) pupils	Slow, shallow breathing, clammy skin Convulsions, coma, possible death	Watery eyes, runny nose, yawning, cramps Loss of appetite, irritability, nausea
Codeine Heroin	Mod./Mod. High/High	Oral, injected Smoked, injected, sniffed	3-6 3-6			
Hydromorphone Meperidine Methadone	High/High High/High High/High	Oral, injected Oral, injected Oral, injected	3-6 3-6 12-24			
Barbiturates Methaqualone Tranquilizers Chloral Hydrate Glutethimide	High/Mod. High/High High/High Mod./Mod. High/Mod.	Oral Oral Oral Oral Oral	1-16 4-8 4-8 5-8 4-8	Sensory alteration, anxiety reduction, intoxication Small amounts cause calmness, relaxed muscles Larger amounts cause slurred speech, impaired judgment, loss of motor coordination	Shallow respiration, clammy skin, dilated pupils Weak and rapid pulse, coma, death	Anxiety, insomnia, muscle tremors, loss of appetite Abrupt cessation or reduced high dose may cause convulsions, delirium, death
Cocaine*	Possible/High	Sniffed, smoked injected	1-2	Increased heart and respiratory rates, elevated blood pressure, dilated pupils and decreased appetite; high doses may cause rapid or irregular heartbeat, loss of coordination, collapse; may cause perspiration, blurred vision, dizziness, a feeling of restlessness, anxiety, delusions	Agitation, increase in body temperature, hallucinations, convulsions, possible death	Apathy, long periods of sleep, irritability, depression, disorientation
Amphetamines Methamphetamine Phenmetrazine Methylphenidate Other Stimulants Ice	Possible/High Possible/High Possible/High Possible/Mod. Possible/High High/High	Oral, injected Oral, injected Oral, injected Oral, injected Oral, injected Smoked, oral injec., inhaled	2-4 2-4 2-4 2-4 2-4 4-14			
PCP, Angel Dust Loveboat	Unknown/High	Smoked, oral, injected	Up to days	Rapidly changing feelings, immediately and long after use Chronic use may cause persistent problems, depression, violent behavior, anxiety, distorted perception of time Large doses may cause convulsions, coma, heart/lung failure, ruptured blood vessels in the brain May cause hallucinations, illusions, dizziness, confusion, suspicion, anxiety, loss of control	Longer, more intense "trip" episodes, psychosis, coma, death	No known withdrawal syndrome
LSD/Acid Green/Red Dragon Mescaline, Peyote Psilocybin	None/Unknown None/Unknown None/Unknown	Oral Oral, injected Oral, injected, smoked, sniffed	8-12 hrs. 8-12 hrs. Variable			
Marijuana Tetrahydro- cannabinol Hashish Hashish Oil	Unknown/Moderate Unknown/Moderate Unknown/Moderate Unknown/Moderate	Smoked, oral pot, grass Smoked, oral Smoked, oral Smoked, oral	2-4 2-4 2-4 2-4	Euphoria followed by relaxation; loss of appetite; impaired memory, concentration, knowledge retention; loss of coordination; more vivid sense of taste, sight, smell, hearing; stronger doses cause fluctuating emotions, fragmentary thoughts, disoriented behavior, psychosis; may cause irritation to lungs, respiratory system; may cause cancer	Fatigue, lack of coordination, paranoia, psychosis	Insomnia, hyperactivity, sometimes decreased appetite

## Federal Trafficking Penalties

Description	Quantity	1st Offense	2nd Offense	
Marijuana	1,000 kg more mixture; or 1,000 or more plants	<ol style="list-style-type: none"> <li>Not less than 10 years, not more than life.</li> <li>If death or serious injury, not less than 20 years, not more than life.</li> <li>Fine not more than \$4 million individual, \$10 million other than individual.</li> </ol>	<ol style="list-style-type: none"> <li>Not less than 20 years, not more than life.</li> <li>If death or serious injury, not more than life.</li> <li>Fine not more than \$8 million individual, \$20 million other than individual.</li> </ol>	
Marijuana	100 kg to 999 kg mixture; or 100-999 plants	<ol style="list-style-type: none"> <li>Not less than 5 years, not more than 40 years.</li> <li>If death or serious injury, not less than 20 years, not more than life.</li> <li>Fine not more than \$2 million individual, \$5 million other than individual.</li> </ol>	<ol style="list-style-type: none"> <li>Not less than 10 years, not more than life.</li> <li>If death or serious injury, not more than life.</li> <li>Fine not more than \$4 million individual, \$10 million other than individual.</li> </ol>	
Marijuana	50 to 99 kg mixture or 50 to 99 plants	<ol style="list-style-type: none"> <li>Not more than 20 years.</li> <li>If death or serious injury, not less than 20 years, not more than life.</li> <li>Fine \$1 million individual, \$5 million other than individual.</li> </ol>	<ol style="list-style-type: none"> <li>Not more than 30 years.</li> <li>If death or serious injury, not more than life.</li> <li>Fine \$2 million individual, \$10 million other than individual.</li> </ol>	
Marijuana Hashish Hashish Oil	Less than 50 kg mixture 10 kg or more 1 kg or more	<ol style="list-style-type: none"> <li>Not more than 5 years.</li> <li>Fine not more than \$250,000, \$1 million other than individual.</li> </ol>	<ol style="list-style-type: none"> <li>Not more than 10 years.</li> <li>Fine \$500,000 individual, \$2 million other than individual.</li> </ol>	
Drug	Quantity	1st Offense	2nd Offense	
CSA I and II	Methamphetamine	10-99 gm pure or 100-999 gm mixture	100 gm or more pure or 1 kg or more mixture	<ol style="list-style-type: none"> <li>Not less than 10 years, not more than life.</li> <li>If death or serious injury, not less than 20 years or more than life.</li> <li>Fine of not more than \$4 million individual, \$10 million other than individual.</li> </ol>
	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 100-999 gm mixture	100 gm or more pure or 1 kg or more mixture	
CSA I and II	LSD	1-9 gm mixture	10 gm or more mixture	<ol style="list-style-type: none"> <li>Not less than 10 years.</li> <li>Fine \$500,000 individual, \$2 million other than individual.</li> </ol>
	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	
Others (law does not include marijuana, hashish, or hash oil)	Any	<ol style="list-style-type: none"> <li>Not more than 20 years.</li> <li>If death or serious injury, not less than 20 years, not more than life.</li> <li>Fine \$1 million individual, \$5 million not individual.</li> </ol>	<ol style="list-style-type: none"> <li>Not more than 30 years.</li> <li>If death or serious injury, life.</li> <li>Fine \$2 million individual, \$10 million not individual.</li> </ol>	
	All (includes anabolic steroids as of 2/27/91)	<ol style="list-style-type: none"> <li>Not more than 5 years.</li> <li>Fine not more than \$250,000 individual, \$1 million not individual.</li> </ol>	<ol style="list-style-type: none"> <li>Not more than 10 years.</li> <li>Fine not more than \$500,000 individual, \$2 million not individual.</li> </ol>	
CSA I and II	Any	<ol style="list-style-type: none"> <li>Not more than 3 years.</li> <li>Fine not more than \$250,000 individual, \$1 million not individual.</li> </ol>	<ol style="list-style-type: none"> <li>Not more than 6 years.</li> <li>Fine not more than \$500,000 individual, \$2 million not individual.</li> </ol>	
All	Any	<ol style="list-style-type: none"> <li>Not more than 1 year.</li> <li>Fine not more than \$100,000 individual, \$250,000 not individual.</li> </ol>	<ol style="list-style-type: none"> <li>Not more than 2 years.</li> <li>Fine not more than \$200,000 individual, \$500,000 not individual.</li> </ol>	



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## 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.

<b>Administration Building</b>	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
<b>Lobby</b>	Gilbane Construction
<b>ADM-101,102</b>	Classrooms
<b>103</b>	Classroom
<b>106, 109</b>	Conference Rooms
<b>119</b>	Classroom
<b>A-1</b>	Choral Hall
<b>A-4</b>	Creative Arts Division Office, Faculty Offices
<b>A-5</b>	Ceramics/Painting Studio
<b>A-6</b>	Photography Studio
<b>A-7</b>	Sculpture Studio
<b>A-9</b>	Classrooms
<b>AT – Advanced Technology Center</b>	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
<b>Baldwin Winery</b>	Financial Aid, Printing Services, Part-time Faculty Offices
<b>Hinson Campus Center</b>	Dining Rooms, Dining Services, Meeting Rooms:
<b>Upper Level</b>	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
<b>Lower Level</b>	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
<b>CDC</b>	Child Development Center
<b>CHC</b>	California History Center (Trianon Building)
<b>ECOT-1</b>	Vasconcellos Institute for Democracy in Action (VIDA)
<b>E-1</b>	Automotive Technology
<b>E-2</b>	Design and Manufacturing Technologies
<b>E-3</b>	Classrooms, Faculty Offices
<b>ESA</b>	Environmental Study Area Lab
<b>F-1 through 6</b>	Faculty Offices
<b>FC</b>	Flint Center, Box Office
<b>FOR – Forum</b>	Art History Slide Library/Office, Faculty Offices, Lecture Halls
<b>F-1,2,3</b>	Faculty Offices
<b>F-4,6</b>	Faculty Offices
<b>G-1 through 10</b>	General Purpose Classrooms, Grounds and Custodial Warehouse – Plant Services
<b>HTCTU – Hoefler Building</b>	High Tech Center Training Unit
<b>KC – Kirsch Center For Environmental Studies</b>	Biological, Health and Environmental Sciences/Workforce Education Division Office, Faculty Offices, Classrooms
<b>LCW – Learning Center West</b>	Audio Visual, Classrooms, Deaf and Hard of Hearing Services, Disability Support Services Testing and Tutoring, Library West Computer Lab; Student Success and Retention Services
<b>Library – (Rear)</b>	Community Education – Extended Year Program, Short Courses
<b>L-1</b>	Business, Computer Science and Applied Technologies Division Office, Language Arts Division Office, Social Sciences/Humanities Division Office
<b>L-2,3</b>	Classrooms/Psychology Lab
<b>L-4</b>	La Voz, Red Wheelbarrow, Classrooms
<b>L-5</b>	Restrooms
<b>L-6,8</b>	Classrooms
<b>L-7</b>	Data Services

<b>Media and Learning Center (MLC)</b>	Online Education, Equity Office, Learning Resources, Multimedia Team, Professional Development
<b>Mod Quad</b>	ETS
<b>MQ-1</b>	
<b>MQ-2</b>	Classroom
<b>MQ-3</b>	Classroom
<b>MCC</b>	Intercultural/International Studies Division Office and Multicultural Center
<b>PE-1</b>	Auxiliary Gyms, Physiology Lab
<b>PE-2</b>	Main Gym
<b>PE-4</b>	P.E. Division Office, Recreational Sports/Intramural Office, Faculty Offices
<b>PE-5</b>	Faculty Offices
<b>PE-6</b>	Fitness and Wellness Center, Locker Rooms, Faculty Offices
<b>PLT – Planetarium</b>	De Anza College Planetarium
<b>Science Center</b>	
<b>SC-1</b>	Lecture Hall, Faculty Offices
<b>SC-2</b>	Labs
<b>SC-3</b>	Pavilion
<b>SEM – Seminar</b>	CompTechS/Computer Donation Program, Outreach and Relations with Schools, Occupational Training Institute (OTI), County Office of Education
<b>S-1</b>	Geology/Physics Classrooms, Faculty Offices
<b>S-2</b>	Restrooms
<b>S-3</b>	Classrooms/Physical Science/Math/Engineering Division Office, Faculty Offices, Honors Program
<b>S-4</b>	Classrooms/Math and Science Tutorial Center, Faculty Offices
<b>S-5</b>	Classrooms, Faculty Offices
<b>S-6</b>	Restrooms
<b>S-7</b>	Classrooms, Faculty Offices
<b>S-8</b>	Nursing/Classrooms
<b>S-9</b>	Faculty Offices
<b>RSS – Registration and Student Services Building</b>	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
<b>VPAC – Visual &amp; Performing Arts Center</b>	Art History Classroom, Auditorium/Lecture Hall, Euphrat Museum of Art



## 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



DeAnza  College

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