# DE ANZA COLLEGE

# 2020-2021
# CATALOG

# TABLE OF CONTENTS

# DE ANZA COLLEGE

# ACADEMIC CALENDAR 2O2O-2O21

## FALL QUARTER

**Sept. 21-Dec. 11, 2020**

Last day for international students to apply
for admission: July 31, 2020

Instruction begins: Sept. 21

Final examinations: Dec. 7-11

**Holidays**
*Veterans Day: Nov. 9*
*Thanksgiving recess: Nov. 26-29*
*Winter recess: Dec. 12-Jan. 3*

## WINTER QUARTER

**Jan. 4-March 26, 2021**

Last day for international students to apply
for admission: Oct. 31, 2020

Instruction begins: Jan. 4

Final examinations: March 22-26

**Holidays**
*Martin Luther King, Jr. Day: Jan. 18*
*Presidents' Day weekend: Feb. 12-15*
*Spring recess: March 27-April 4*

## SPRING QUARTER

**April 5-June 25, 2021**

Last day for international students to apply
for admission: Jan. 31, 2021

Instruction begins: April 5

Final examinations: June 21-25

**Holidays**
*Memorial Day weekend: May 29-31*

## SUMMER SESSION

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

**Holidays**
*Independence Day: July 4*
*Labor Day: Sept. 6*

## 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 for the most current information.

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

# WELCOME

Dear Student,

We are so pleased that you have chosen to be part of De Anza College.

This is an unusual year for all of us – a time of great challenges, but with opportunities as well. Like many of you, I am beginning my first year at De Anza, and I'm excited to join the wonderful instructors, classified professionals and administrators who are committed to your success here.

I grew up in a family that had experience with adversity and hardship and have learned over the years that it's important to look beyond that which is – to that which could be. That's what we want you to do at De Anza – to see the possibilities.

I am proud to say that I earned my associate degree at a community college, where I also learned the importance of student engagement outside the classroom. Building on that experience, I transferred to a university, where I earned my bachelor's, master's and doctoral degrees. One of the most important elements of my college education was my engagement in student life. I very much encourage each you to get involved, as well, and there are many opportunities to do so – even as circumstances require that we begin the 2020-21 academic year with classes conducted online. You truly can get the whole college experience at De Anza.

You already know about the excellent academic programs and student services that have made us "Tops in Transfer" to universities across California. We're also "Tops in Career Training," with outstanding programs that prepare students to work in a variety of fields. We've made sure that academic and student services will be available to you online, every step of the way. Please don't hesitate to ask for any assistance you might need.

Welcome to De Anza College! I look forward to seeing you all when we return to our beautiful campus.

Sincerely,

Lloyd A. Holmes, 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 Degree Works.

These steps are best practices recommended through the Student Success Act of 2012. Following them will help you get priority enrollment (see page 32).

# 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.

***Website:*** deanza.edu/about-us/mission-and-values

# ABOUT DE ANZA

## ACCREDITATION

De Anza College is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, 10 Commercial Boulevard, Suite 204, Novato, CA 94949, 415.506.0234; accjc.org. The commission is an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education.

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

Pertinent coursework offered by the college has been approved by the Board of Governors of the California Community Colleges, the state Department of Education and the Veterans Administration, as well as the Council on Medical Education and Registration, the Board of Registered Nursing, Community Allied Health Education and Accreditation, and the American Bar Association.

## INSTITUTIONAL CORE COMPETENCIES

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

## COMMUNICATION AND EXPRESSION

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

## INFORMATION LITERACY

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

## PHYSICAL/MENTAL WELLNESS 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

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 intends that the General Education program will provide students with the knowledge and skills necessary to evaluate and appreciate the physical environment, their culture and other cultures, the contributions of both men and women, and the society in which they live; and it will help them connect various fields of knowledge in order to become active, vibrant participants in a diverse and global society.
*–Taken from the General Education Statement of Philosophy*

## STUDENT RIGHTS AND RESPONSIBILITIES

Students at 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. De Anza College has 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*

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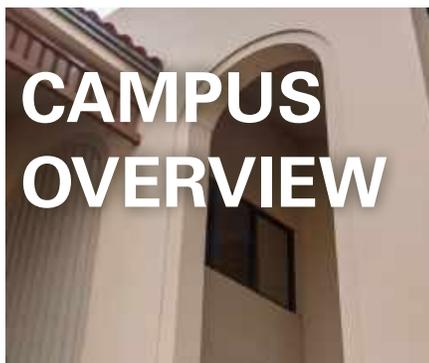
De Anza College is an institution dedicated at its core to diversity and to a multicultural learning environment.

The college offers 77 degrees, 103 certificates and more than 1,800 courses.

## HISTORY

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 19,000 today

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

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

## STUDENT SUCCESS

All De Anza students can find support through the Student Success Center, which can help them connect with a supportive community of instructors, counselors, advisers, tutors, peer mentors and study groups. The center can also direct students to study skills classes, 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, where they can work closely with students and offer assistance tailored to their circumstances 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 2019-20, the college served 1,264 students with disabilities.

## SUSTAINABILITY, LEARNING FACILITIES AND BOND MEASURES

Just as the civil rights movement shaped De Anza in its early days, the environmental movement has galvanized a wide range of activities on the campus among students, faculty and staff. De Anza's commitment to sustainability as a core value is evident in daily improvements ranging from 100% 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 three 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 using sustainable building methods and materials. Nine of its buildings have been certified as meeting national LEED standards for environmental sustainability: the Kirsch Center for Environmental Studies and the Media & Learning Center – both rated LEED Platinum; the Baldwin Winery and the

Visual & Performing Arts Center (VPAC) – rated LEED Silver; and the East Cottage, Multicultural Center (MCC), Registration & Student Services (RSS) building, Science Center and Seminar (SEM) building – LEED certified.

Among the comprehensive athletic facilities are a 5,000-seat stadium, aquatics complex, gymnasiums, fields and courts. Specialized facilities include the De Anza Planetarium, which houses the only Infinium S Star projector outside Japan, and the VPAC, which includes a 400-seat performance and lecture hall and the Euphrat Museum of Art. These facilities, along with the California History Center and other buildings across campus, are spaces for the college's 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.

Voters again showed their support in 2020 by approving the Measure G bond issue to provide up to $898 million to upgrade and repair facilities, classrooms and labs, and to acquire, construct and repair facilities, equipment and sites.

## 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 "E" and totaled on student transcripts. VIDA sponsors several initiatives and co-sponsors conferences where hundreds of historically underrepresented high school students learn about attending college and becoming active in the community. VIDA also houses the HEFAS (Higher Education for AB540 Students) Undocumented Center, which provides supportive services, scholarship information, community resources and leadership and advocacy opportunities.

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 members, 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 members, 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
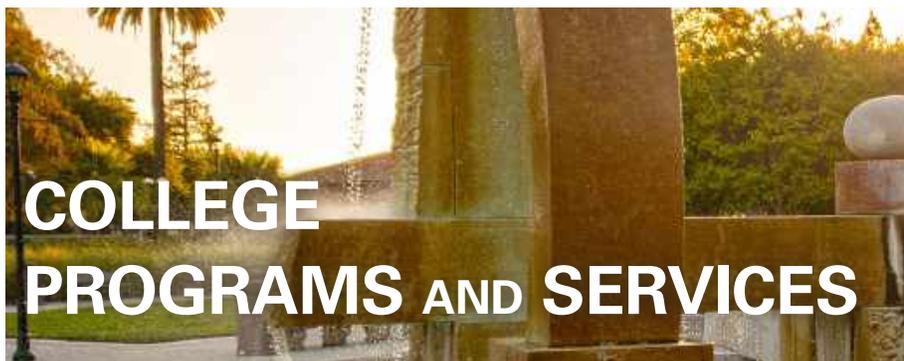
## ASSESSMENT CENTER

The Assessment Center oversees student assessment and placement for the English, English as a Second Language (ESL) and Math course sequences. The center also administers exams for placement into Chemistry 1A, Biology 6A and Biology 40A. Students can view their placements on MyPortal.

*Location:* RSS 144
*Website:* deanza.edu/assessment

## ATHLETICS

De Anza is a member of the Coast Conference, the Northern California Football Conference, and the California Community College Athletic Association. We are the proud home of 12 consecutive Coast Conference All-Sports trophies – awarded to the top athletic program in the region. Varsity teams compete in eight sports for men: baseball, basketball, cross country, football, soccer, swimming and diving, track and field, and water polo. The eight sports for women include badminton, basketball, cross country, soccer, swimming and diving, track and field, volleyball and water polo.

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. The Athletics Department offers dedicated full-time support staff members; special academic cohorts including REACH (Reading, English, Athletics, Counseling and Humanities) and FAST (Football Academic Success Team); and leadership development opportunities in the Student-Athlete Advisory Council. 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

## BASIC NEEDS

Students who struggle with food or housing insecurity – or other financial emergencies – should know that they are not alone. De Anza College is committed to providing information about available resources, including food assistance, emergency cash grants and options for housing and transportation.

*Website:* deanza.edu/resources

## BOOKSTORE

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
*(includes 24-hour online textbook orders, school supplies, logo clothing orders, online faculty textbook requisitions, hours of operation, buyback dates and special events)*

## CALIFORNIA HISTORY CENTER

The California History Center is an active focal point for the study of California and has been recognized as an Outstanding Educational Facility by the state of California, while receiving numerous other awards and honors. 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. The center 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

## CAREER TRAINING PROGRAMS

De Anza offers career training in 23 different subject areas, most with hands-on learning, internship opportunities and curriculum developed with input from industry experts. These programs are designed to prepare students for immediate employment or transfer to a four-year university, and to enhance career prospects for working professionals. A number of De Anza's career training programs have earned special recognition from the chancellor's office for California community colleges, which found they met or exceeded goals for helping students increase earnings and find employment in a job similar to their field of study.

*Website:* deanza.edu/career-training

## CHEESEMAN ENVIRONMENTAL STUDY AREA

The Cheeseman Environmental Study Area (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
*Website:* deanza.edu/es/esa

## CHILD DEVELOPMENT CENTER

The De Anza Child Development Center 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 center 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 center 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 center prior to submitting a waiting list application – available at 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 center.

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
*Website:* deanza.edu/child

## COLLEGE LIFE (OFFICE OF)

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

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

*Location:* Campus Center (lower level, near Health Services)
*Telephone:* 408.864.8756
*Email:* collegelife@deanza.edu
*Website:* 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

### 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

## COMMUNITY EDUCATION

De Anza's Community Education Division offers programs and services to community members of all ages and interests, through the De Anza College Academy, Euphrat Museum of Art (see page 11), Planetarium (see page 16) and Short Courses.

*Website:* deanza.edu/communityed

### DE ANZA COLLEGE ACADEMY

This program is offered for students entering grades 1-12. 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 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
*Website*: 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
*Website:* deanza.edu/shortcourses

## COUNSELING AND ACADEMIC ADVISING

De Anza offers counseling and advising services to help students set academic goals and find support services to achieve them.

The general Counseling and Advising Center provides comprehensive services for students who seek assistance with a variety of concerns. Additional counselors and academic advisers are assigned to various instructional divisions, Learning Communities and other campus offices, where they work closely with students in those areas and provide assistance tailored to their circumstances and educational goals. Office of Outreach counselors work with new students as well as students participating in the De Anza College Promise and Men of Color Community.

Academic advisers assist with developing educational plans and addressing academic concerns. Counselors provide academic advising as well as educational, personal and career counseling. These services include:

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

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

**Career Counseling**
- Career and 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

Counselors act as catalysts to help students define their own questions, explore their own alternatives and ultimately find their own answers.

Office hours for counselors and academic advisers are posted online, but may be subject to change, especially during academic breaks. Counselors and advisers may be seen on a drop-in basis or by appointment. Students can find their counselors and learn how to contact them or make an appointment by visiting deanza.edu/our-counselors.

Under the Federal Educational Rights and Privacy Act, counselors cannot disclose a student's educational records to a third party without the student's consent. This includes such information as a student's name, attendance record, address, phone number, family contact information, campuswide ID, grades, health information and discipline reports.

*Location:* General Counseling and Advising: RSS, Second Floor
*Website:* deanza.edu/our-counselors

## 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 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 on page 9.

*Website:* deanza.edu/collegelife/idcard

## 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, burgers, hot and cold sandwiches, specialty pizzas, pasta, Vietnamese pho, Mexican food and Korean bibimbap. 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

## 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

### 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:* RSS 141
*Telephone:* 408.864.8753 (Voice)
　　　　　408.864.8748 (TTY)
*Email:* dss@deanza.edu
*Website:* 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:** RSS 141
**Telephone:** 408.864.8838
**Website:** 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 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
1555 Parkmoor Ave., San Jose
**Telephone:** 408.282.5012
**Website:** deanza.edu/dsps/hope

### EDUCATIONAL PLAN/ DEGREE WORKS

Students create an educational plan in Degree Works, 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 educational plan are required steps in obtaining priority enrollment.

Students can also perform a degree audit in the Degree Works app on MyPortal, to see what courses they have completed and which requirements remain to be completed in order to finish their degree or certificate. Degree Works will indicate what percentage of their degree has been completed. This information may be used by the Financial Aid office to determine if students are on track to complete their degree and maintain their financial aid eligibility. Degree Works' educational plan function allows students or counselors to create a multi-quarter plan for registration, including their degree requirements. This plan may also be used by the Financial Aid office 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:** Campus Center, Lower Level
**Telephone:** 408.864.8950
**Website:** 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 supports 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 groups.

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

**Location:** MLC 250
**Telephone:** 408.864.5636
**Email:** equityoffice@deanza.edu
**Website:** 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 hosts an annual De Anza 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.

The Euphrat is a part of De Anza's Community Education Division (see page 9).

***Location:*** Euphrat Museum of Art, VPAC
***Telephone:*** 408.864.5464
***Website:*** deanza.edu/euphrat

## FINANCIAL AID AND SCHOLARSHIPS

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

### APPLICATION PROCEDURE

Most students should use the Free Application for Federal Student Aid (FAFSA), available at fafsa.gov. Carefully follow the directions provided. Undocumented students should use the California Dream Act application available at dream.csac.ca.gov, instead of the FAFSA. Applications for each new academic year are available 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 options for establishing general student eligibility for federal student aid have been 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 or GED, or have been home-schooled in order to meet the academic qualifications for general eligibility.

### FINANCIAL AID PROGRAMS

The following programs are offered:

**De Anza College Promise**

Get your degree – or transfer – free! The De Anza College Promise provides free tuition and fees for two years, plus $1,000 toward books and materials, for first-time college students who are planning to attend full time. Students can apply by filing the Free Application for Federal Student Aid or the California Dream Act Application and listing De Anza College on the application. Students must be California residents (or eligible for nonresident tuition exemption) and maintain full-time status to remain eligible for this program. Learn more at deanza.edu/promise.

**Grants**
- Supplemental Educational Opportunity Grants (SEOG)
- Pell Grants
- Extended Opportunity Program Grant (EOPG)
- Cal Grants B and C
- Student Success Completion Grant

**Loans**
- Federal Direct Loan
- Direct Plus Parent Loans

**Part-Time Jobs**
- Federal Work Study Program

**Waivers**
- California College Promise (formerly the Board of Governors' Fee Waiver)

**Scholarships**

Students may apply to a variety of scholarships using the AcademicWorks program in MyPortal. AcademicWorks provides personalized scholarship recommendations. 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, De Anza College Promise, Cal Grants and many private scholarships. Most AB 540 students should use the California Dream Act Application instead of the FAFSA.

***Location:*** Baldwin Winery Building
***Voicemail:*** 408.864.8718

***Email:*** financialaid@deanza.edu
***Website:*** deanza.edu/financialaid/apply

## FOOD PANTRY

Students experiencing food insecurity can get free food from the Food Pantry program operated by the Office of Outreach in RSS 127 and satellite locations around campus. The Outreach office also helps students apply for CalFresh benefits and coordinates emergency food vouchers, a mobile food pantry and a mobile farmer's market.

***Location:*** RSS 127
***Telephone:*** 408.864.8327
***Website:*** deanza.edu/outreach/ food_pantry

## GUIDED PATHWAYS

The Guided Pathways initiative helps provide students with clear paths to achieve their academic goals. Students can explore areas of academic interest through meta-majors, which are clusters of related subjects. This creates opportunities for students to discover their future majors and careers while still achieving their goals in a timely manner. The initiative provides students with a suggested plan to advance through their required courses, quarter by quarter, while also directing them to support services that will assist them in maintaining progress toward their goals.

***Website:*** deanza.edu/guided-pathways

## HEALTH SERVICES

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

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

***Location:*** Campus Center, Lower Level
***Telephone:*** 408.864.8732
***Website:*** deanza.edu/healthservices

## HOUSING

De Anza does not operate any housing facilities, but the Office of College Life maintains a webpage that provides information about off-campus rental listings and room-sharing services. The college does not assume responsibility for any housing facilities. See deanza.edu/housing.

Students who are experiencing housing insecurity or homelessness can find information about resources available to them at deanza.edu/resources.

## INTERNATIONAL STUDENT PROGRAMS

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

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

Each quarter, ISP organizes an orientation program for all new international students, covering a wide range of topics, including assessment, 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 Visa 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 Visa students are required to purchase and subscribe to the international student health insurance selected by the Foothill-De Anza Community College District.

*Location:* RSS, Second Floor
*Telephone:* 408.864.8826

*Email:* dainternational@deanza.edu
*Website:* 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

### 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:* LCW 102
*Telephone:* 408.864.8470
*Email:* fye@deanza.edu
*Website:* 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:* 408.864.8833

*Email:* dahonors@deanza.edu
*Website:* 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@fhda.edu
*Website:* deanza.edu/mellonscholars

## IMPACT AAPI

IMPACT AAPI works to support and challenge Asian American and Pacific Islander students and to close the gaps in academic achievement and transfer by focusing on students from backgrounds that are historically underrepresented in higher education. The program was initially funded through an Asian American and Native American Pacific Islander-Serving Institutions (AANAPISI) grant from the U.S. Department of Education.

*Location:* LCW 102
*Email:* impactaapi@deanza.edu
*Website:* deanza.edu/impact-aapi

## LATINX EMPOWERMENT AT DE ANZA (LEAD)

Open to all students, Latinx 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 Latinx culture, history, literature and social issues.

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
*Website:* deanza.edu/lead

## LEARNING IN COMMUNITIES (LINC)

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

When students enroll in LinC, they:

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

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

*Email:* linc@deanza.edu
*Website:* 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

STEM Jumpstart includes mentorship, field trips, workshops and the following courses.

- MATH 31: Precalculus I
- MATH 42: Precalculus II (This course will become MATH 32 in winter quarter)
- MATH 43: Precalculus III (This course will be phased out in spring quarter)

*Location:* S31
*Telephone:* 408.864.8800
*Email:* mps@deanza.edu
*Website:* deanza.edu/mps

## MEN OF COLOR COMMUNITY (MC²)

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

*Location:* RSS 127
*Telephone:* 408.864.5780
*Email:* mc2@deanza.edu
*Website:* deanza.edu/mc2

## PUENTE PROJECT

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:* LCW 102
*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 COMMUNITY

This program is based on an African-centered philosophy that enables students to see themselves within a positive historical and cultural context. It 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 with perspectives from across the African Diaspora.

*Location:* LCW 102
*Email:* aaaa@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 contains 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 online classes,

which can be found in the course listings. The Library Computer Lab on the first floor of the Library has 48 workstations. Students can check email, access the internet and prepare projects using Microsoft Office software. Workstations with assistive technology for accessibility as well as viewing stations for watching DVDs are available.

| | |
|---|---|
| *Location:* | Library |
| *Circulation:* | 408.864.8761 |
| *Reference:* | 408.864.8479 |
| *Website:* | deanza.edu/library |

## OCCUPATIONAL TRAINING INSTITUTE (OTI)

The Foothill-De Anza Community College District's Occupational Training Institute (OTI) offers career training for students who are eligible through CalWORKs (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 Training 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 Training 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 provides a unique opportunity for students who are interested in exploring careers in the tech industry. Students are trained on professional skills related to all aspects of a working environment. Through hands-on instruction, students learn how to refurbish donated computers that are then made available to needy students at no cost. Students may also have opportunities to apply for internships at Silicon Valley companies.

| | |
|---|---|
| *Location:* | SEM 1 |
| *Telephone:* | 408.864.8869 |
| *Website:* | deanza.edu/oti |

## ONLINE EDUCATION CENTER

De Anza College offers a wide variety of online courses for students for academic credit, upgrading skills or changing careers. These courses are academically equivalent to and carry the same credits as on-campus courses.

Numerous courses meet General Education (GE) and transfer requirements. Students may complete most lower division GE requirements for the A.A. degree or to transfer to a four-year institution. Courses are designed for individuals with limited time to attend on-campus classes and who prefer more flexibility in scheduling and pace. For specific information on services provided to students with disabilities, please contact the Disability Support Services office on campus.

Online courses are delivered through an internet-based course management system. Instructor and student interaction is facilitated primarily online. Some courses may have a limited number of 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 members and other students. Instructors are available to answer questions through one or more of the following means: 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. Students receive a syllabus for each online course. 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.

Most work for online courses at De Anza may be completed without coming to campus. However, some courses may include required on-campus meetings for the purposes of orientation, assessments or exams. Other courses are designed with proctored exams, which enable students outside of the area to complete the course without being on site. Students who do not have access to a computer at home may use one of the open computer labs on campus to complete their coursework.

The Online Education Center provides support services to faculty and students. Students may contact the office if they are experiencing technical issues with the course management system. 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 bachelor's degrees online.

De Anza offers academic certificates in these subjects for which students can earn all required units by taking online courses.

- Business Administration – Certificate of Achievement
- Business Information Worker – Certificate of Achievement

- Entrepreneurship – Certificate of Achievement
- Management Information Systems Support – Certificate of Achievement
- Network Basics – Certificate of Achievement
- Environmental Resource Management and Pollution Prevention – Certificate of Achievement and Certificate of Achievement-Advanced

Some online courses may require on-campus participation in certain activities as detailed in the schedule of classes.

*Location:* MLC 210
*Telephone:* 408.864.8969
*Email:* onlineeducation@deanza.edu
*Website:* deanza.edu/online-ed

## OUTREACH AND RELATIONS WITH SCHOOLS

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. Its goal is to promote college access and success for all students, with emphasis on underserved and underrepresented student groups.

Outreach counselors and staff provide information about De Anza programs and services and serve as a point of contact for schools, students and parents, to support the successful transition of prospective students from high school to college. The office also works with all divisions and programs on campus to coordinate institutional outreach efforts, meet enrollment targets and connect new students to programs and services.

The Outreach office serves new and prospective students and their families through a wide range of activities, including

- Outreach to area high schools – including college fairs, career and college nights, presentations, info tables, student ambassadors, application workshops, orientation and educational planning
- Annual high school partners conference at De Anza
- Annual high school student conferences at De Anza
- The annual Enrollment Day, which provides an opportunity for new students to talk with counselors and other experts, while taking care of all the steps that are important for a strong start in college – including orientation, creating an educational plan and more.
- Guided tours of the De Anza campus
- The Men of Color Community – a Learning Community that provides peer support, mentoring, tutoring, academic advising and other services
- Counseling, academic advising and follow-up for all new students who don't have access to counselors through another program
- Counseling, support and other follow-up services for students participating in the De Anza College Promise
- The Food Pantry and related programs that provide free food, emergency vouchers and other assistance to students who are struggling with food insecurity
- Referring students to campus and community resources as appropriate, including students who are experiencing housing insecurity or homelessness

*Location:* RSS 127
*Telephone:* 408.864.8327
*Email:* outreach@deanza.edu
*Website:* deanza.edu/outreach

## PLANETARIUM

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

The Planetarium is part of De Anza's Community Education Division (see page 9.)

*Location:* North end of Parking Lot E
*Telephone:* 408.864.8814
*Fax:* 408.864.5643
*Email:* planetarium@deanza.edu
*Website:* deanza.edu/planetarium

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

The Foothill-De Anza Community College District Police Department exists to serve and protect a social and academic environment that sustains 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, please call district police five minutes in advance.

**Lost and Found**

All items should be turned in or claimed at the district police substation.

*Location:* Campus Center 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

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 all registered De Anza College students.
*Location:* SC3 101
*Telephone:* 408.864.8921

## SMARTPASS

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

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 224
(southeast corner of campus)
*Telephone:* 408.864.5322

## STUDENT SUCCESS CENTER (SSC)

Tutoring and many other types of academic support are available 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, instructors and staff. Qualifying students are encouraged to serve as peer tutors.

Current locations, hours, phone contacts, staff, activities and program information can be found online.
*Website:* deanza.edu/studentsuccess

### ACADEMIC SKILLS CENTER
The Academic Skills Center offers workshops and study skills support to enhance college success for all De Anza students. Workshop topics include a variety of student life, study, reading, writing and grammar skills.
*Location:* ATC 302

### GENERAL SUBJECTS TUTORING CENTER
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 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 (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 support first-generation college students and students with historically low retention, matriculation and transfer rates. The center provides a community of peers, instructors and staff who foster a nurturing environment and encourage the retention and success necessary to enable achievement of a student's educational objectives. The SSRS Center serves as an umbrella for First Year Experience, IMPACT AAPI, Puente Project, Summer Bridge Academy and Umoja Community.

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:*  LCW 102
*Telephone:*  408.864.8470
*Website:*  deanza.edu/ssrsc

## 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:*  RSS, Second Floor
*Telephone:*  408.864.8841
*Website:*  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:*  SEM 3
*Telephone:*  408.864.8723
*Website:*  deanza.edu/veterans

# FINANCIAL PLANNING AND COLLEGE COSTS

## STUDENT FEES

Full-time resident students enrolled in 12 units pay $31 per unit. Each quarter this will average $372 for enrollment fees, plus an average of $75 in other fees. The nonresident tuition fee is $177 per unit. The foreign student tuition fee is $177 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 $562 each quarter.

All fees are listed at deanza.edu/cashier/fees 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.

## 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 2020-2021 Estimated Cost of Attendance | |
| --- | --- |
| **Living at Home with No Dependents** | |
| Registration and fees | $1,527 |
| Books and supplies | $1,971 |
| Transportation | $1,278 |
| Personal miscellaneous | $3,996 |
| **Total** | **$8,772** |

# COLLEGE AND DISTRICT POLICIES AND GUIDELINES

*See all Foothill-De Anza Community College District Board of Trustees policies at go.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.

## 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) states: "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
### (ADMINISTRATIVE PROCEDURE 4240)

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, when such work does not reflect their current ability. Only non-passing grades will be excluded from the cumulative GPA.

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 is subject to the following conditions:

- One academic year must have elapsed since the completion of the courses to be excluded.
- 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. to qualify for honors at graduation.

## ADA ACCOMMODATION: REQUESTING AND RECEIVING*

The board of trustees of the Foothill-De Anza Community College District upholds that improving access to educational and employment opportunities for people with disabilities must be a priority. The board has directed 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 district shall not discriminate against a qualified individual with a disability because of the disability, with regard to employment or the provision of district programs, services and activities.

Students who are otherwise qualified may request accommodation related to their disability, provided the accommodation does not impose an undue hardship on the district. The procedures for requesting accommodation are available from the president's office, the Disabled Student Services (DSS) program, the office of the ADA coordinator and the district Human Resources office. The ADA coordinator for De Anza College is the dean of Student Development and EOPS, who can be contacted at 408.864.8218.

## ADMISSION AND REGISTRATION 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 who are attending another college on an F visa, but wish to take a class at De Anza, must submit an official letter from the host college that issued their I-20 form. This letter should state the student's standing, confirm their 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 Veteran Services office at 408.864.8230 for specific eligibility criteria.

The Foothill-De Anza District uses OpenCCC 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 diploma, general education diploma (GED) or proficiency certificate, or who is at least 18 years old. High school students may attend De Anza as dual enrolled students if they are currently enrolled in grades 9-12

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.

### CLASSIFICATION OF STUDENTS

Students who have completed fewer than 45 quarter units of college credit are considered freshmen. Students who have completed 45 or more quarter units of college credit, and have not earned a degree, are considered sophomores.

### REPEATING COURSES

California law limits the number of times you may take the same class at a community college. (See Title 5 § 55024, 55040, 55042, 55045 and 58161.)

You may repeat a course for which you have earned a substandard grade (such as F, D or NP) or a W. However, you may not enroll in the same course more than a total of three times, including times when you received a substandard grade or W. If you get a W or substandard grade in the same course twice, you will not be able to enroll in the course again until you contact the Admissions and Records office and obtain clearance for taking the course a third time.

If you repeat a course because of a W or substandard grade, the second grade will replace the first in calculating your GPA, but the initial course and grade will remain on the permanent record. If you take the class for a third time, your GPA will include the third grade and not the first two grades. If you do not successfully complete the course on the third attempt, you must take the course at another college outside the district (not Foothill), or choose another course if one is available that meets their transfer or graduation requirements.

Most courses cannot be repeated if you receive a grade of C or better, unless you show documented proof that you must repeat the course due to a significant lapse of time (at least three years), a legal requirement for employment or licensing, a disability requiring accommodation or other extenuating circumstances.

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However, a small number of courses are designated as "repeatable" under separate conditions listed in the course description. Courses that are designated as "repeatable" are subject to a limit of six enrollments, including any times that resulted in a substandard grade or W, unless otherwise specified.

Only these types of courses are designated as "repeatable" (see Title 5 § 55041).

- Courses for which repetition is necessary to meet major requirements of CSU or UC to complete a bachelor's degree
- Intercollegiate athletics
- Specific courses designated as Special Education that meet 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)**

There are also limits on certain "families" of related courses that involve active participation – such as physical education, visual arts or performing arts – and these "family" limits apply to classes at both De Anza and Foothill College. (See Title 5 § 55000.)

Under state rules, each of these courses is nonrepeatable and can only be taken one time. In addition, you may not enroll more than six times in courses within a designated family, regardless of whether they are offered at De Anza or Foothill. This limit includes any times when you receive a substandard grade (D, F, NP or NC) or a W.

If you enroll in a De Anza course that is equivalent to a Foothill course within a course family, you may not take the Foothill course at any time, and vice versa.

For more information on repeating courses, see link.deanza.edu/repeat-limits

### EXCESSIVE DROPS

Under state legislation approved in 2011, students may no longer enroll in the same course more than three times without successful completion. This includes enrollments leading to substandard grades or withdrawals. Students who have enrolled in the same course twice without passing should see a counselor for assistance or seek tutoring. Students may petition to enroll in the same course a fourth time, but approval will be highly selective, and any additional enrollments in the same course will not be approved.

### 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 and the class listings for more information.

### HIGH SCHOOL ADMISSIONS (DUAL ENROLLMENT)

High school students who are currently enrolled in grades 9-12 may apply to De Anza as special part-time students.

There is no enrollment fee for current high school students who qualify as part-time by taking 10 or fewer units during any regular quarter (six or fewer in the summer). However, students may still incur costs for textbooks and other fees. Students who want to take more than 10 units in a quarter, or more than six units in summer, should contact the Admissions and Records office. High school students will be considered full-time – and will be charged all fees – if they enroll in 12 or more units (seven or more in summer) at De Anza College, Foothill College or both colleges combined. For more information visit deanza.edu/admissions/dual.

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

Before enrolling in English or math courses, or any course that has an English or Math prerequisite, high school students must complete the assessment process to be placed in the right course for their skill level.

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 protections under the Family Educational Rights and Privacy Act as other students, and their records cannot be released to family members without their consent.

Because De Anza offers courses at a college level, students and their families should be aware that course content may be adult in nature. De Anza also 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 by ordering from De Anza's authorized transcript provider. For more information visit deanza.edu/admissions/order-transcripts.

### 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
- 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.

## 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 (AP) EXAMS

Some AP exams with qualifying scores are accepted at De Anza College for granting credit 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:* RSS, First Floor
*Telephone:* 408.864.5300
*Email:* evaluationsda@deanza.edu

## 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 and EOPS at 408.864.8218 or the dean of Counseling and Disability Support Programs and Services at 408.564.8945. 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.

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### ANTI-DISCRIMINATION POLICY IN SPANISH, TRADITIONAL CHINESE AND VIETNAMESE

**ANTI-DISCRIMINACIÓN**

De Anza College se compromete a brindar la igualdad de oportunidad a todo individuo que solicite ingresar a la universidad, que desee inscribirse en clases, que solicite servicios estudiantiles, ayuda financiera o empleo, sin importar la edad, el sexo, el estado civil, la incapacidad, la raza, el color de la piel, la preferencia sexual, la religión, la nacionalidad, o factores similares, según lo estipulado por Title VI del Acta de Derechos Civiles de1964, Title IX de la Enmienda a la Educación de 1972 (45CRF 86), Sección 504, 1990. El hecho que un individuo no pueda manejar el inglés con facilidad no será un obstáculo para ser admitido a la universidad ni para participar en los programas de educación vocacional.

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

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

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

**反對歧視**

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

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

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

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

**Chính sách chống phân biệt đối xử**

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

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

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

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

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.

## APPEAL REVIEW COMMITTEE

The Appeal Review Committee is responsible for ensuring consistent, fair and equitable handling of student petitions for exceptions to academic and registration rules. The committee handles evaluation, enforcement, interpretation and granting exceptions for cause. Under committee rules, each case must stand on its own merit. Visit link.deanza.edu/arc for more information.

## ATTENDANCE

Instructors determine individual class attendance policies, which are distributed to students at the beginning of each quarter. State guidelines also recommend that absences in excess of one week's class meetings may be considered excessive. Faculty may drop students for excessive absences, which will contribute to the total allowable enrollments in a course. (See "Excessive Drops" on page 21.)

## AUDITING CLASSES

Students who have satisfactorily completed a class for the maximum allowable times at De Anza or Foothill College may be able to audit. Instructor and division dean approval is required. Audit requests cannot be processed until the third week of class or later. A $10 per unit fee is assessed for audited classes. Course audit request forms are available in MyPortal: Open the Apps section, then click the tile for Adobe Sign Student Forms and look under "Student Workflows." Course audits may not be approved to override repetition rules.

## CATALOG RIGHTS

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

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

## COMPUTER AND NETWORK USE

### Rights and Responsibilities (Board Policy 3250)

Foothill-De Anza Community College 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 the 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 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
- 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 fhda.edu.

### Enforcement of the Policy

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

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

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

Both the Board Policy Manual and Administrative Procedures Appendix may be found at www.boarddocs.com/ca/fhda/Board.nsf/Public.

### MISUSE OF COMPUTER INFORMATION
### (ADMINISTRATIVE PROCEDURE 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 Administrative Procedure 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 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 activity 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 their 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 legal action.

## ILLEGAL DISTRIBUTION OF COPYRIGHTED MATERIALS

De Anza College students are prohibited from using the Foothill-De Anza Community College district 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 district 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).

In addition to being illegal, file sharing drains the district 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.

## 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. Such cases may include 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

- 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 they are 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 their counselor.

Additional requirements for credit by examination include

- 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 or 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 World Languages 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)

De Anza College provides an annual crime statistics report in accordance with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act. The most current information is available on De Anza's Campus Security webpage at deanza.edu/police/clerystatistics. The full Clery Act Annual Security Report may be obtained through the Foothill-De Anza Police Department at 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 federal law. It is the policy of the college to impose appropriate disciplinary sanctions on employees and students for the unlawful possession, use or distribution of illicit drugs or alcohol. Appropriate disciplinary sanctions may include suspension or expulsion for students or suspension or termination for employees, and may also include requiring the completion of a rehabilitation program. The standards of conduct for students and the applicable sanctions for violating the standards are contained in the Foothill-De Anza Community College District Board Policy on Student Rights and Responsibilities and in Administrative Procedures 5510 and 5520.

## 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 students when they reach the age of 18 or attend 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

### CLERY ACT CRIME STATISTICS – DE ANZA COLLEGE

| CRIMINAL OFFENSES | ON CAMPUS | | | PUBLIC PROPERTY | | | NON-CAMPUS PROPERTY | | |
|---|---|---|---|---|---|---|---|---|---|
| | 2017 | 2018 | 2019 | 2017 | 2018 | 2019 | 2017 | 2018 | 2019 |
| Murder/Non-negligent manslaughter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Negligent manslaughter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rape | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fondling | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Incest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Statutory Rape | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Robbery | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Aggravated Assault | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Burglary | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Motor Vehicle Theft | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arson | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dating Violence | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Domestic Violence | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Stalking | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | |
| Hate Crimes | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| SPECIAL CATEGORY ARRESTS | ON CAMPUS | | | PUBLIC PROPERTY | | | NON-CAMPUS PROPERTY | | |
|---|---|---|---|---|---|---|---|---|---|
| | 2017 | 2018 | 2019 | 2017 | 2018 | 2019 | 2017 | 2018 | 2019 |
| Weapons Violations | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Drug Violations | 18 | 16 | 15 | 0 | 0 | 0 | 0 | 0 | 0 |
| Liquor Laws | 3 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |

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.

The Foothill-De Anza district's 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.

## FINAL EXAMINATIONS, ACTIVITIES PRECEDING

Student activities will not be scheduled during the three 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 additional time if needed.

## 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 |
| FW | Failing | 0.0 |

FW — This grade indicates that a student has stopped participating in a course after the last day to officially withdraw, without achieving a final passing grade, and the student has not received college authorization to withdraw under extenuating circumstances.

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. This indicates incomplete academic work for unforeseeable, emergency and justifiable reasons at the end of the term. At least 75% 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 A W is assigned when a student drops a class after the first two weeks of a regular 12-week term or, if the term is shorter, after 20% of the course duration has passed. A W will be assigned whenever a student drops a class after 20-75% of the term has passed. 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. In other words, students may not enroll in the same course more than three times, including times when W or substandard grades are received.

EW Excused Withdrawal. An EW is assigned when a student is permitted to withdraw from a course due to specific events beyond the student's control, which affect their ability to complete the course. An EW can only be awarded if a student files a petition form providing documentation to prove a "verifiable reason." A list of examples is included on the petition form and on the Admissions and Records website. In the absence of the petition and documentation, a grade will be assigned to the student record. The EW symbol may be assigned at any time after the deadline to drop a course without receiving a W. An EW is not counted in progress probation and dismissal calculations. It is not counted toward the permitted number of withdrawals or as an enrollment attempt.

MW Military Withdrawal. An MW is assigned when a student who is a member of an active or reserve U.S. military service receives orders compelling them to withdraw from a course. Upon verification of such orders, an MW will be assigned at any time after the deadline to drop a course without receiving a W. An MW is not counted in progress probation and dismissal calculations. It is not counted toward the permitted number of withdrawals or as an enrollment attempt.

**P-NP Courses**

De Anza College uses the P-NP grade for courses authorized by the Board of Trustees and state regulations under Title 5. Students must request the P/NP option within the first 30% 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.

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)

**Noncredit Courses**

Noncredit courses are not recorded on a student's transcript and grades are not calculated in a student's GPA. Students in these courses may receive letter grades or be graded on the basis of Pass/No Pass or satisfactory progress. See course description for more information.

## 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 Degree Works (see page 10) 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

Students who have achieved a cumulative De Anza College GPA between 3.30 and 4.0 will be awarded associate degree honors at graduation, as follows.
4.00: Highest Honors, Summa Cum Laude
3.50-3.99: High Honors, Magna Cum Laude
3.30-3.49: Honors, Cum Laude

## HEALTH (STUDENT RIGHTS AND RESPONSIBILITIES)

De Anza students have the right to a healthy, safe and drug-free environment. They also 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 for individual development and learning, students will

- Not attend college if they have a contagious condition (such as TB, measles or hepatitis)

- Not attend college if they are under the influence of alcohol or illicit drugs
- Have a physical exam on file if they are an intercollegiate athlete, or is in an allied health program
- Notify the Admissions and Records Office if they 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 or welfare of themselves or others
- Follow safety regulations and use safety equipment and protective devices as required
- Follow all college infectious disease policies

## 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.

## NONCREDIT COURSES

De Anza offers certain courses on a noncredit basis. Noncredit classes do not count toward a degree or academic certificate, and students do not earn college credit units. However, students can earn a noncredit certificate after completing a series of required classes.

Noncredit courses are intended for students who want to gain general knowledge or expand their knowledge on a particular topic, learn new skills or upgrade existing skills, or prepare for taking credit courses. They can be a starting point for many individuals on a pathway to learning basic skills, preparing to enter the workforce or transitioning to for-credit programs.

## NONSMOKING POLICY

The goal of the Foothill-De Anza 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 district Board Policy 3217. Noncompliance will result in fines.

## OFF-CAMPUS ACTIVITIES AND TRIPS

Certain 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. under state regulations (Title 5, § 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 Foothill-De Anza 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. See 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 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.

Quarterly and annual parking decals can be purchased online through MyPortal. 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 is provided. For more information, see deanza.edu/parking/permits.

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.

## PHOTOGRAPHY AND VIDEO RECORDING

During public events on campus, the college may take photographs or video recordings that may appear in informational or promotional materials, including the college website, social media, printed collateral and advertising. If you prefer not to have your image recorded or used, please notify the photographer or videographer.

## 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 that a student is required to meet in order to demonstrate current readiness for a course or educational program.
- **Corequisite** means 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 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.

## 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. Most students can be assessed on the basis of their U.S. high school transcripts and GPA. De Anza also has a Guided Self-Placement tool for students who did not attend a U.S. high school in recent years. Learn more at 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 link.deanza. edu/orientation for details.
5. Create an educational plan through Degree Works. 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 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. **Student athletes** 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. **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
4. **New college students** who have
   - Completed assessment, orientation and an educational plan
   - Selected an educational goal of transfer, degree or certificate
   - Declared a major
5. **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
6. **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
7. **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
8. **Concurrently enrolled high school students**

The most current information on priority enrollment is available at link.deanza.edu/priority.

## PROBATION AND DISMISSAL

**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 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.

**Progress probation** occurs when a student has enrolled in at least 18 quarter units, as shown by the official academic record, and has received entries of F, W, I, NP or NC for 50% or more of those units.

A student who is on academic probation is subject to dismissal if the student's cumulative GPA falls below 2.0 for all units attempted in each of five consecutive quarters.

A student who is on progress probation is subject to dismissal if the student receives an F, W, I, NP or NC for 50% or more of the units enrolled in at least five consecutive quarters.

Having a cumulative GPA below 2.0 for two or more quarters, or a cumulative completion rate below 51% for two or more quarters, can affect eligibility for certain types of financial aid or veteran's benefits. Visit deanza.edu/financialaid/types/waivers to learn more.

Information about academic and progress probation can be found at deanza.edu/policies/probation and deanza.edu/counseling/probation.

### Academic Reinstatement (Readmission After Dismissal)

The board of trustees for the Foothill-De Anza district has established procedures under state law for students to petition for reinstatement to De Anza College. Students must submit a new application for admission and meet with a counselor to review their academic goals and other matters relevant to a successful educational experience. If a counselor recommends approval, the petition must be submitted to the Appeal Review Committee. Students who petition for reinstatement must describe their educational goals, the courses they wish to take in a specific quarter and the factors that have changed which now cause them to expect success.

**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. Students who are enrolled within the current quarter at both colleges or have an academic history with both colleges, should contact a counselor at De Anza for assistance regarding their probation or dismissal status at De Anza.

If at any time students attend both De Anza and Foothill College in the Foothill-De Anza 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 they fall below the required academic performance, the above probation and dismissal procedures will apply to them at De Anza.

## 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.

## SERVICE AREAS

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

## 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 those standards are outlined in the policies and procedures of the Foothill-De Anza Community College District, including

- Administrative Procedure 5510: Student Code of Conduct
- Administrative Procedure 5520: Student Due Process and Discipline
- Administrative Procedure 5500: Student Rights and Responsibilities
- Board Policy 4630: Sexual Assault Policy

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 contact a counselor or the offices of 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 conduct or communications constituting sexual harassment as defined or 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 anyone determined to be in violation of this policy. Anyone who believes they have been a victim of sexual harassment may file a complaint within one year of the date on which they knew or should have known of the facts of the sexual harassment incident.

Complaints of sexual harassment shall be handled according to the district's policies and procedures, including Administrative Procedure 4640: Procedures to Resolve Complaints Regarding Harassment and Discrimination. Such complaints can be directed to the dean of Student Development and EOPS at 408.864.8218 or the Title IX coordinator at 408.864.8945.

## STUDENT CONDUCT AND DUE PROCESS

De Anza College students are afforded the rights and privileges outlined in the college's Student Rights and Responsibilities Policy (Foothill-De Anza district Board Policy 5500 and Administrative Procedure 5500). At the same time, students must assume responsibility for their personal conduct and meet the obligations in the college's Student Code of Conduct (Administrative Procedure 5510) and Due Process and Discipline Procedures (Administrative Procedure 5520).

Students can find more information in the Student Rights and Responsibilities Policy, which can be obtained from the Office of College Life or the offices of the college President, Vice President of Instruction, Vice President of Student Services or Dean of Student Development.

## 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 Community 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 district 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:** First try to solve the problem informally with the instructor or staff member. You must confer with the others involved and try to resolve the problem.

**Step 2:** If you are unable to resolve the issue after Step 1, 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 the 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 they advise 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 the details of the situation and 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,

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* *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.*

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 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 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 under the federal Student Right-To-Know and Campus Security Act.

Fall 2016 Cohort
- Completion rate: 64.8%
- Transfer rate: 5.26%

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 2016. These 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 became "transfer prepared" during a three-year period from fall 2016 to spring 2019. Students who have 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 or certificate, or becoming "transfer prepared" during a five-semester period from spring 2017 to spring 2019.

Also in accordance with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, De Anza College provides a crime statistics report. See "Crime Statistics (Clery Act)" on page 28. Current information is available at deanza.edu/police/clerystatistics.

## SUBSTANDARD WORK: ALLEVIATION FOR GPA

When a student receives a substandard grade (D+, D, D-, F, NC or NP) at De Anza, they may petition to have that grade excluded from their GPA after subsequently completing an equivalent course at another regionally accredited college or university. The student's academic transcript will be annotated to reflect exclusion of the previously recorded coursework with the substandard grade, for purposes of GPA calculation and for all considerations associated with awarding certificates and degrees. Replacement with a grade of Pass/No Pass is not permitted, as it does not improve the student's GPA. All grades remain on the academic transcript, and some transfer institutions may require recalculation of the GPA to include both the substandard grade and the subsequent grade.

When submitting this petition, the student must
- Attach a copy of their transcript, and either the course outline of record or the course catalog description to confirm course equivalency
- Make sure that an official (sealed) transcript from the other regionally accredited institution is submitted to De Anza's Admissions and Records Office before the petition is filed
- Complete the petition form by providing the student's information, the De Anza College course identifier, the date the De Anza course was completed and the initial grade, as well as the equivalent course identifier, date repeated and grade earned upon repetition
- Obtain a counselor's approval for the petition if the course is clearly equivalent in ASSIST or C-ID
- Obtain approval from a De Anza faculty member in the relevant discipline and the division dean, after meeting with a counselor, if the course is not in ASSIST or C-ID

## 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.

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.

## 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 federal 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
- Requires institutions to take necessary steps to prevent sexual assault on their campuses, and to respond promptly and effectively when an assault is reported

Visit deanza.edu/titleix for complete information, resources and contacts, including

- Health Services
- Psychological Services
- Campus police

**To File A Complaint**

*Contact:* Title IX Coordinator
*Email:* dactitleIX@deanza.edu
*Website:* deanza.edu/titleix



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\* *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.*

## TRANSCRIPTS

Students can order transcripts in writing from the Admissions and Records 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 to the Admissions and Records Office, 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 for more information.

## TRANSFER CREDIT FROM OTHER COLLEGES

Students transferring from another regionally accredited institution may request to use credit from that school to meet De Anza requirements. Official transcripts should be sent directly from the transfer institution to the Admissions and Records office. Students may also deliver a sealed, official transcript to the Admissions and Records Office, along with a request for transcript evaluation. Only lower-division (freshman- and sophomore-level) transfer credit can be evaluated. 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 official transcripts received.

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 and Records Office for review. This transcript will not be evaluated for other transfer credit, but for prerequisite clearance only. Prerequisite clearance forms are available at deanza.edu/admissions/evaluations/prerequisites.

## UNITS (CREDIT 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 more than 21.5 units (including physical education and labs) if they have met the following conditions:

- Completed a minimum of 18 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 more than 21.5 units must petition through their counselor. 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 18 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 nonpassing grade. Students may also be assigned a nonpassing grade for violating De Anza's published Academic Integrity policies.

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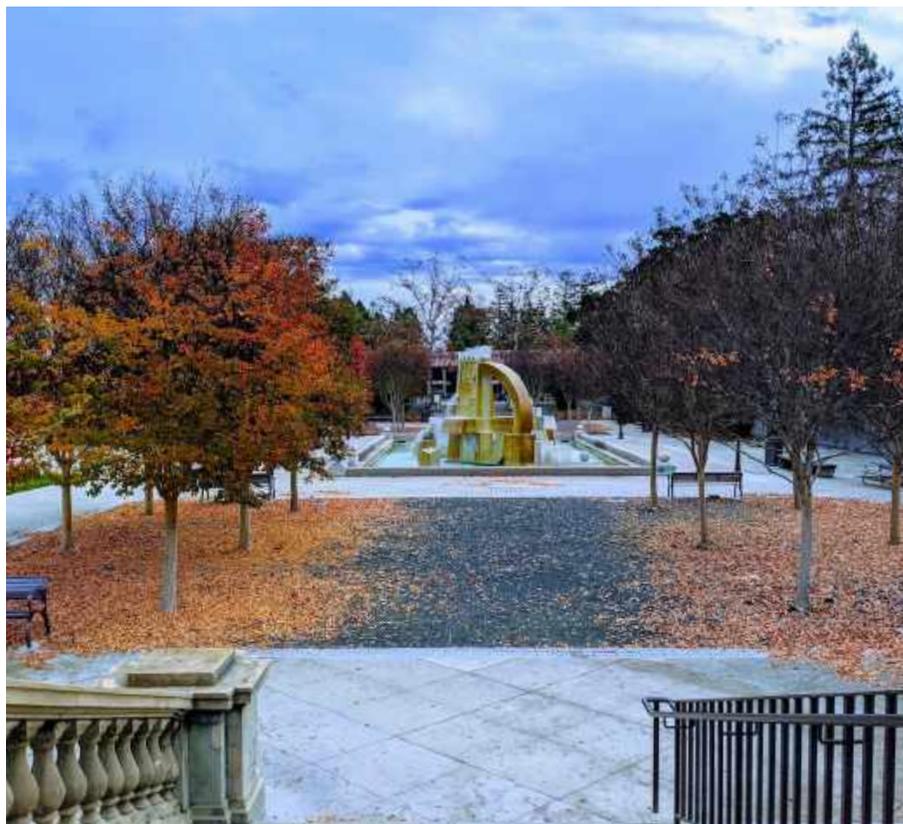
De Anza College offers a wide variety of two-year transfer and career programs leading to an Associate in Arts or Associate in Science degree. In addition, Certificates of Achievement and Certificates of Achievement-Advanced are awarded upon the satisfactory completion of certain programs that require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

## NEW THIS YEAR

**The following degrees and certificates are new offerings this year:**

- Associate Degrees
    - Database Development Practitioner: A.A.
    - Project Management Practitioner: A.A.
- Associate Degrees for Transfer
    - Art History: A.A.-Transfer
    - Biology: A.S.-Transfer
    - Law, Public Policy and Society: A.A.-Transfer
    - Social Justice Studies: A.A.-Transfer
- Certificate of Achievement-Advanced
    - Database Development Practitioner
    - Project Management Practitioner
    - Translation and Interpretation in Mandarin
- Certificate of Achievement
    - Asian American Studies
    - Translation and Interpretation in Mandarin
- Certificate of Completion (noncredit)
    - Automotive Chassis Technician
    - General Service Technician
    - Smog Technician

## 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 demonstrate to potential employers, transfer institutions and society that they have specialized knowledge in a particular area of study. Completing a degree 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 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.
- 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 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 90 quarter 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.

### 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.

**Note:** For more information and a list of available A.A-T./A.S.-T. degrees go to deanza.edu/articulation/apply-adt

## 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 Cabrillo, Chabot, Evergreen Valley, Foothill, Gavilan, Hartnell, Las Positas, Mission, Monterey Peninsula, Ohlone, San José 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 (such as prerequisites, major and electives units, and GPA) 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.

### Skills Certificates

Some academic departments also offer Skills Certificates. These certificates are issued by the department and are not notated on official college transcripts.

### Noncredit Certificates

The Board of Governors for California Community Colleges has established a framework for offering noncredit courses and programs to increase educational access to students from diverse backgrounds. Noncredit courses can be a starting point for many individuals – particularly immigrants, the economically disadvantaged or adults with lower skills – on a pathway to learning basic skills, preparing to enter the workforce, transitioning to for-credit programs or transferring to a four-year university.

Noncredit programs vary in length. Students are encouraged to check with the departments and counselors for help with planning their courses. There is no limit on the number of noncredit certificates a student can earn.

## 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 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 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 qualifying for MATH 114 or a higher-level Math course.
- English proficiency is required in addition to major courses. This may be met by qualifying for EWRT 1A, EWRT 1AH or ESL 5.

### Skills Certificate Programs

All required courses must be completed with a C grade or higher.

### Noncredit Certificates

All required courses must be completed with at least a C grade, passing grade or satisfactory progress.

## CAREER TECHNICAL EDUCATION (CTE) PROGRAM ADVISORY COMMITTEES

De Anza offers a wide variety of Career Training programs under the formal title of Career Technical Education (CTE) and Workforce Education. You can find useful information about these programs can be found at deanza.edu/career-training. Each of these programs is developed and offered with input from a CTE program advisory committee, in accordance with guidelines established by the California Community Colleges Chancellor's Office. These advisory committees include business and industry leaders along with college faculty and administrators. They meet at least once a year to discuss course offerings and determine how to keep programs current with trends in the regional and global economies.

The advisory committees provide input by

- 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

| Certificates and Degrees | Noncredit Certificate* | Skills Certificate* | Certificate of Achievement | Certificate of Achievement-Advanced | AA/AS Degree |
|---|---|---|---|---|---|
| **Accounting** | | | ◆ | ◆ | ◆ |
| **Administration of Justice** | | | | | |
| Corrections/Probation | | | | | ◆ |
| Cyber Forensics and Investigations | | | | ◆ | |
| Law Enforcement | | | | | ◆ |
| Private Security | | | | ◆ | ◆ |
| **Art** | | | | | |
| Art History | | | | ◆ | ◆ |
| Ceramics | | | | | ◆ |
| Museum Studies | | ◆ | | | |
| Painting | | | | | ◆ |
| Sculpture | | | | | ◆ |
| Spatial Art | | | | | ◆ |
| **Asian American and Asian Studies** | | | | | |
| Asian American Studies | | | ◆ | | |
| **Automotive Technician (Evening)** | | | | | |
| Advanced Automotive Technology | | | ◆ | | |
| Automotive General Service Technician | | | ◆ | | |
| Advanced Engine Performance Technology | | | ◆ | ◆ | ◆ |
| Automotive Chassis Technology | | | ◆ | ◆ | ◆ |
| Automotive Machining and Engine Repair Technology | | | ◆ | ◆ | ◆ |
| Automotive Powertrain Technology | | | ◆ | ◆ | ◆ |
| Basic Engine Performance Technology | | | ◆ | | |
| Intermediate Engine Performance Technology | | | ◆ | | |
| Smog Technician | | | ◆ | | |
| **Automotive Technology (Day)** | | | | | |
| Automotive Chassis and Powertrain | | | | ◆ | ◆ |
| Automotive Engine Performance | | | | ◆ | ◆ |
| Automotive Machining and Engine Repair | | | | ◆ | ◆ |
| **Automotive – Noncredit** | | | | | |
| Automotive Chassis Technology | ◆ | | | | |
| General Service Technician | ◆ | | | | |
| Smog Technican | ◆ | | | | |
| **Biological Sciences** | | | | | ◆ |
| **Business Administration** | | | ◆ | | ◆ |
| Business Information Worker | | | ◆ | | |
| Entrepreneurship | | | ◆ | | |
| Management Information Systems Support | | | ◆ | | |
| **Child Development** | | | ◆ | ◆ | ◆ |
| Early Childhood Mental Health | | | ◆ | | |
| Early Intervention/Special Education Assistant | | | | ◆ | |
| Trauma Informed Care | | ◆ | | | |
| **Communication Studies** | | | ◆ | | ◆ |
| **Computer Information Systems** | | | | | |
| Database Development Practitioner | | | ◆ | ◆ | ◆ |
| Enterprise Security Professional | | | ◆ | ◆ | ◆ |
| Network Administration | | | ◆ | ◆ | ◆ |
| Programming/Network Programming | | | | | |
|   Business Programming | | | | ◆ | ◆ |
|   Network Basics | | | ◆ | | |
|   Network Programming | | | | ◆ | ◆ |
|   Programming in C/C++ | | | ◆ | | |
|   Programming in Java | | | ◆ | | |
|   Programming in Perl | | | ◆ | | |
|   Programming in Python | | | ◆ | | |
|   Systems Programming | | | | ◆ | ◆ |
|   UNIX/LINUX Operating System | | | ◆ | | |
|   Visual Basic Programming | | | ◆ | | |
|   Web Development | | | ◆ | | |
| **Design and Manufacturing Technologies** | | | | | |
| Computer Aided Design - Mechanical | | | ◆ | | |
| CNC Machinist | | | ◆ | ◆ | ◆ |
| CNC Programming - CAD/CAM | | | ◆ | | |
| CNC Research and Development Machinist | | | | ◆ | ◆ |
| Product Model Making | | | | ◆ | ◆ |
| Quality Control Technician | | | ◆ | | |
| **English** | | | | | ◆ |
| **Environmental Studies** | | | | | |
| Energy Management and Building Science | | | ◆ | ◆ | ◆ |
| Environmental Resource Management and Pollution Prevention | | | ◆ | ◆ | ◆ |
| Facility and Sustainable Building Management | | | ◆ | ◆ | ◆ |
| **Film/TV** | | | | | |
| Film/TV: Animation | | | | | ◆ |
| Film/TV: Production | | | ◆ | ◆ | ◆ |
| Film/TV: Screenwriting | | | | | ◆ |
| **Global Studies** | ◆ | | ◆ | | ◆ |
| **Graphic and Interactive Design** | | | ◆ | ◆ | ◆ |
| **Health Technologies** | | | | | |
| Business Office Clerk | | | ◆ | | |
| Insurance and Coding | | | ◆ | | |
| Lab Assisting | | | ◆ | | |
| Medical Assisting | | | | ◆ | ◆ |
| Medical File Clerk | | | ◆ | | |
| Medical Reception | | | ◆ | | |
| Medical Records Clerk | | | ◆ | | |
| Medical Secretary | | | | ◆ | |
| Medical Transcribing with Editing | | | ◆ | | |
| Phlebotomy Technician I | | | ◆ | | |
| **Humanities** | | | ◆ | | |
| **Intercultural Studies** | | | | ◆ | ◆ |
| **Journalism** | | | | | ◆ |
| **Leadership and Social Change** | | | ◆ | | |
| **Liberal Arts** | | | | | |
| Arts and Letters | | | | | ◆ |
| Business and Computer Information Systems | | | | | ◆ |
| Science, Math and Engineering | | | | | ◆ |
| Social and Behavioral Sciences | | | | | ◆ |
| **Management** | | | ◆ | | ◆ |
| **Mandarin** | | | | | |
| Mandarin | ◆ | ◆ | | | |
| Translation and Interpretation in Mandarin | ◆ | ◆ | | | |
| **Marketing Management** | | | ◆ | | ◆ |
| **Medical Laboratory Technology** | | | | | |
| Clinical Laboratory Assistant | | | ◆ | | |
| Medical Laboratory Technology (MLT) | | | | ◆ | ◆ |
| **Music** | | | | | ◆ |
| **Nursing** | | | | | |
| LVN Transition to RN | | | | | ◆ |
| Registered Nurse (RN) | | | | | ◆ |
| **Paralegal Studies** | | | | ◆ | ◆ |
| **Photographic Arts (Film and Digital)** | | | | | ◆ |
| **Professional Photography (Film and Digital)** | | | ◆ | | ◆ |
| **Project Management Practitioner** | | | ◆ | ◆ | ◆ |
| **Public Relations** | | | ◆ | ◆ | |
| **Real Estate** | | | ◆ | | ◆ |
| **Trasnsfer Studies** | | | | | |
| CSU GE | | | | ◆ | |
| IGETC | | | | ◆ | |
| **Women's Studies** | | | ◆ | | |

## Certificates and Degrees

| Certificates and Degrees | Noncredit Certificate* | Skills Certificate* | Certificate of Achievement | Certificate of Achievement-Advanced | AA/AS Degree |
|---|---|---|---|---|---|
| **Associate Degree for Transfer to CSU (AA-T/AS-T)** | | | | | |
| Administration of Justice | | | | | ◆ |
| Anthropology | | | | | ◆ |
| Art History | | | | | ◆ |
| Biology | | | | | ◆ |
| Business Administration | | | | | ◆ |
| Communication Studies | | | | | ◆ |
| Computer Science | | | | | ◆ |
| Early Childhood Education | | | | | ◆ |
| Economics | | | | | ◆ |
| English | | | | | ◆ |
| Film, Television, and Electronic Media | | | | | ◆ |
| History | | | | | ◆ |
| Journalism | | | | | ◆ |
| Kinesiology | | | | | ◆ |
| Mathematics | | | | | ◆ |
| Law, Public Policy, and Society | | | | | ◆ |
| Philosophy | | | | | ◆ |
| Political Science | | | | | ◆ |
| Psychology | | | | | ◆ |
| Social Justice Studies: General Studies | | | | | ◆ |
| Sociology | | | | | ◆ |

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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 |
| Noncredit Certificate* | hours vary |

*\* Skills Certificates and Noncredit 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 De Anza 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 to earn 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:

**1-49** Transferable to the University of California (See information on transfer limitations on page 122)

**1-99** Transferable to California State University

**1-199** De Anza A.A./A.S. degree applicable

**200-299** Prerequisite for required courses that lead to the A.A./A.S. degree and non-degree applicable credit courses

**300-399** Noncredit CTE, noncredit basic skills and noncredit disability support courses that do not apply to the Associate Degree

See individual course listing in this catalog and class schedule for exceptions to guidelines.

Courses considered "transferable" may not necessarily meet specific requirements at four-year institutions. Students should consult with a counselor or academic adviser to determine transfer credits and to develop an educational plan for transfer. Although students are strongly encouraged to work with a counselor or academic adviser, the final responsibility for the selection of appropriate transferable 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 assigned to a course signals that participating California colleges and universities have determined that courses offered by De Anza or another California community college 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.

The C-ID numbering system is useful for students attending more than one community college and is applied to the transferable courses that 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. To view C-ID approved courses go to: c-id.net/courses/search.

## ARTICULATION AGREEMENTS

Articulation refers to the process of evaluating courses, or a sequence of courses, to determine whether coursework offered at a "sending" institution (such as De Anza College) will meet specific course requirements at a "receiving" institution (such as CSU, UC or independent universities) for the purposes of fulfilling requirements for admission, general education, lower-division major preparation or elective credit. Successful completion of articulated De Anza courses assures students that identified courses listed on an articulation agreement will be credited toward bachelor's degree requirements upon transfer to a college or university.

De Anza has established articulation agreements with CSU, UC and various independent and out-of-state universities. Courses approved for credit at such institutions are listed on these articulation agreements. Department course-to-course, general education and major preparation agreements for UC and CSU campuses are available online at:

- assist.org
- deanza.edu/articulation/agreements

## ASSIST (STATEWIDE ARTICULATION WEBSITE)

The assist.org website is the official statewide repository for articulation information for California public colleges and universities. It is the primary website to use to identify which specific De Anza courses fulfill general education or major preparation requirements at UC or CSU campuses. Listings of course equivalencies assist students in selecting appropriate courses to prepare for transfer. Selection criteria for impacted and selective programs or majors, transfer credit limitations and important links to UC and CSU websites are also available at assist.org.

## ARTICULATION AND TRANSFER SERVICES WEBSITE

The De Anza Articulation and Transfer Services website at deanza.edu/articulation/ provides a variety of information that includes

- Articulation agreements and transfer credit guides
- General education requirements for transfer
- Advanced Placement (AP) and International Baccalaureate (IB) exam credit for CSU GE and IGETC
- Guarantee Admission Programs
  - 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

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, size of the student body, housing options, undergraduate research opportunities and physical environment are among 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 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 UC transfer information is available at admission. universityofcalifornia.edu/admission-requirements/transfer-requirements/.

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. Admission to UC campuses and individual programs is extremely competitive and may require 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 (fall, winter or spring)
- Complete the following seven-course pattern, earning a grade of C or better in each course:
  - Two transferable college courses (4-5 quarter units or 3 semester units each) in English composition
  - One transferable college course (4-5 quarter units or 3 semester units each) in mathematical concepts and quantitative reasoning
  - Four transferable college courses (4-5 quarter units 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 requirement.

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.

To learn if a UC campus will accept applications from lower-division transfers, visit admission.universityofcalifornia.edu/how-to-apply/applying-as-a-transfer/.

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

The California State University (CSU) system gives priority admission consideration to California community college students who meet the CSU upper-division transfer admission requirements. However, the highest admission priority is given to California community college students who have earned an Associate Degree for Transfer (ADT). California community college 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.

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 CSU-transferable units (60 or more semester units) and have met the following requirements

- Completed at least 45 quarter units (30 semester units) of general education courses. Applicants may visit www.assist.org for a full listing of courses at each California community college that meet CSU general education requirements
- Completed transferable courses (CSU GE Category A) in written communication, oral communication and critical thinking with grades of C- or better
- Completed one transferable course (CSU GE Area B4) in mathematics or quantitative reasoning with a grade of C- or better
- Achieved a cumulative grade point average of 2.0 or better in all CSU-transferable college units attempted
- Be in good standing (eligible to re-enroll) at the last college or university attended

**Lower-Division Transfer Admission Requirements**

An applicant who completes fewer than 90 quarter units (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 units (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 units (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 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 units (3 semester units) is usually considered equivalent to one year of high school study.

(NOTE: Due to enrollment pressures, most CSU campuses do not admit lower-division transfers. Some campuses may require lower-division transfer students to complete specific college coursework, such as the four basic skills courses, as part of their admission criteria.)

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 community college students. The AA-T and AS-T degrees are designed to provide a clear pathway to a CSU degree major. For information on meeting the requirements for an AA-T or AS-T degree, students should consult with a counselor or academic adviser.

To view a current list of De Anza AA-T and AS-T degrees, visit:

- deanza.edu/academics/degrees-and-certificates
- deanza. edu/articulation/apply-adt
- www2.calstate.edu/apply/transfer/Pages/ccc-associate-degree-for-transfer.aspx
- adegreewithaguarantee.com

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

Private (or independent) and out-of-state universities have transfer admission, general education and major requirements that are specific to each campus. De Anza has articulation agreements with select independent colleges and universities located in California and out-of-state. This information is available at deanza.edu/articulation/agreements.

To view information, resources and tools for transfer to private colleges and universities in California, visit californiacolleges.edu/#/college-options-in-california. Transfer admission requirements and transfer credit policies for out-of-state colleges and universities are generally listed in college catalogs and on university admission websites. To ensure a smooth transfer process, students are advised to contact the school where they wish to transfer.

## GUARANTEED ADMISSION

A Transfer Admission Guarantee (TAG) – also referred to as a Transfer Admission Agreements (TAA) – is a commitment that select colleges and universities provide to De Anza students who fulfill specific admission, GPA and course requirements. A TAG serves as a contract between a student and a transfer college or university. Students who complete a TAG and meet the contractual requirements are guaranteed admission to the university.

Students may prepare for a TAG by working with a counselor or academic adviser early in their academic career to develop an education plan for transfer. With a TAG 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 ccctransfer.org/hbcu-colleges/.

Students may visit deanza.edu/articulation to view information about TAG eligibility, requirements and deadlines and are encouraged to meet with a counselor or academic adviser to learn how to initiate and fulfill a TAG.

## 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 and prerequisite advisories associated with each course, and utilize tutoring support services on campus, as needed.

**Conduct research on prospective transfer institutions**

A 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 major requirements.

**Develop an education plan for transfer**

Consult with a counselor or academic adviser to identify required coursework to 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 CSU GE or IGETC (see pages 49-54), 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 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 (such as writing samples and final exams) 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!**



DE ANZA COLLEGE
TOPS in TRANSFER
...and more!

# GENERAL EDUCATION REQUIREMENTS 2O2O-2O21

**Effective Fall 2020 through Summer 2021**

De Anza College offers several types of associate degrees: the Associate in Arts (A.A.), the Associate in Science (A.S.), and the Associate Degree for Transfer (ADT or A.A.-T. or A.S.-T). To qualify for the A.A. or A.S. 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. To qualify for the ADT you must complete a total of 90 CSU transferable quarter units, including either California State University General Education Breadth (CSU GE Breadth) or Intersegmental General Education Transfer Curriculum (IGETC), major and, if necessary, elective courses. 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, CSU GE Breadth and IGETC.

The General Education subject areas for De Anza College's A.A. and A.S. degrees 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 in the column for IGETC or, specific to CSU, the column for CSU GE Breadth. See pages 49-54 for approved course lists.

Transfer students with high-unit majors (such as sciences or engineering) should focus on completing requirements for the major and minimum admissions requirements rather than completing IGETC or CSU GE Breadth requirements.

Completion of IGETC and CSU GE Breadth requirements is nor required for transfer. Students who plan to transfer may instead choose to complete the specific General Education breadth requirements of rhe transfer institution of their choice.

Please see the following websites for more information: **assist.org** or **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)

**Quarter Units**

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

**Area B: Natural Sciences**    **4-6**
One course from the Physical or Biological Sciences

**Area C: Arts and Humanities**    **8-9**
Two courses: one from Arts and one from Humanities (One ICS course in Area C, D or E)

**Area D: Social & Behavioral Sciences**    **8**
Two courses (One ICS course in Area C, D or E)

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

**Graduation requirements also include:**
- Proficiency in reading and written expression which is met by Area A1 above. Course must be completed with a grade of C or better.
- Proficiency in mathematics which may be met by completing MATH 109 or 114 or 130 or equivalent or higher with a grade of C or better (or) achieving a score of 3 or higher on one AP mathematics exam.
- Completion of one Environmental Sustainability and Global Citizenship (ESGC) approved course selected from an Area listed above.

**Total Units: 32-43**

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

**Quarter Units**

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

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

**Area C: Arts and Humanities**    **12-15**
Select three courses, with at least one course in Arts and one course in Humanities
1. Arts
2. Humanities

**Area D: Social Sciences**    **12-15**
Select three courses from at least two disciplines

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

**Minimum Units: 58**

You must request certification by completing the official certification form available at the Admissions and Records Office and online at deanza.edu/admissions/forms

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

### UC/CSU – All Campuses\*\* Intersegmental General Education Transfer Curriculum (IGETC)

**Quarter Units**

**Area 1: English Communication**    **9-15**
A. English Composition
B. Critical Thinking – English Composition
C. Oral Communication **(CSU only)**

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

**Area 3: Arts and Humanities**    **12-15**
At least three courses including one from Arts and one from Humanities. (CSU campuses have the discretion on whether to allow courses used to satisfy the CSU United States History, Constitution and American Ideals (AI) graduation requirement to also count in Areas 3B or 4.)
A. Arts
B. Humanities

**Area 4: Social & Behavioral Sciences**    **12-15**
At least three courses from at least two disciplines. (CSU campuses have the discretion on whether to allow courses used to satisfy the CSU United States History, Constitution and American Ideals (AI) graduation requirement to also count in Areas 3B or 4.)

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

**Area 6: Language other than English (UC only)**

**Total Units: 46-62**

You must request certification by completing the official certification form available at Admissions and Records and online at deanza.edu/admissions/forms

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\*\* 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 2020-2021
Effective: Fall 2020 through Summer 2021

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

☑ **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.)
☐ Proficiency in mathematics which may be met by completing MATH 109 or 114 or 130 or equivalent or higher with a grade of C or
   better (or) achieving a score of 3 or higher on one AP mathematics exam
   Completion of General Education requirements with a minimum GPA of 2.0.

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### AREA A: COMMUNICATION, EXPRESSION, CRITICAL THINKING, AND INFORMATION LITERACY   (10-15 Quarter Units)

☐ **A1 - English Composition** - Demonstrate proficiency in reading and written expression by achieving a score of 3 or
   higher on either AP Language and Composition or Literature and Composition exams (or) completing one of
   the following courses with a grade of C or better:

   **EWRT** 1A, 1AH or (1AS & 1AT) (if this option is selected, *both* courses must be completed for A1 credit) or **ESL** 5▲

☐ **A2 – Written Communication**

   **COMM** 1, 1H, 10, 10H

☐ **A3 - Critical Thinking** - For the A.A. degree, select one of the following courses: (If completing the A.S. degree, this
   sub-area is satisified)

   **COMM** 8, 8H, 9, 9H, 15, 15H, **EWRT** 2, 2H, **EDUC** 46, **MATH** 10, 10H, 17, 44, 46, **PHIL** 3, 4, 7, 7H, **READ** 10

### AREA B: NATURAL SCIENCES   (4 - 6 Quarter Units)
☐ Select **one** course in the **Biological** or **Physical Sciences** category. Note: Completion of the nursing major clears this
requirement. Underlined courses have a laboratory component.

**Biological Sciences: ANTH** 1, 1H, 1/1L, 1H/1L, 7, **BIOL** 6A, 6AH, 6C▲, 6CH▲, 10▲, 10H▲, 11▲, 13, 15▲, 40C,
   **ESCI** 1▲, 1▲/1L, 19▲, 30@▲,60▲, **E S** 2@▲, 50@▲

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

### AREA C: ARTS AND HUMANITIES   (8 - 9 Quarter Units)
Select **one** course from the **Arts** category and **one** course from the **Humanities** category.

☐ **C1 - Arts: ARTS** 1A, 1B, 2A, 2B, 2C, 2D, 2F*, 2G, 2H, 2J, 2K, 2L, 3TC@, 3TE, **ASAM** 40, **DANC** 38A, **E S** 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** 21, 22, 23, 24, **MUSI** 1A, 1B, 1C, 1D, **PHTG** 7, 21, **THEA** 1, **WMST** 3C@

☐ **C2 - Humanities: ASAM** 20*, 21*, 32*, 41, **ELIT** 8, 10, 10H, 11, 12, 17, 17H, 19, 21, 22, 24*, 28, 38, 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, 30, **E S** 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** 3A@, 3AH@, 3B@, 3BH@, 3C@, 3CH@,
   6A@, 6AH@, 6B@, 6BH@, 6C@, 6CH@, 17A@, 17AH@, 17B@, 17BH@, 17C@, 17CH@, **HUMI** 1@▲, 1H@▲, 2, 5, 6, 7,
   9, 9H, 10, 13, 16@, 18, 18H, 20, **ICS** 11, 12, 35, 44, 46, **INTL** 16, **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, 51, 52, 53, 54, 55A, 55B, 56A, 56B, **PERS** 1, 2, 3, **PHIL** 1, 2,
   8, 8H, 11, 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*@, 27*@ 29*@, 31*@, 49

## AREA D: SOCIAL AND BEHAVIORAL SCIENCES     (8 Quarter Units)
Select **two** courses from **Area D**

☐  ☐ **ADMJ** 29*, **ANTH** 2@, 2H@, 3, 4, 5, 6, 8, 12, 68, **ARTS** 3TC@, **ASAM** 1*, 10*, 11*, 12*, 13*, 30*, 31*, 42A, 42B, 50*, **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, **E S** 1▲, 2@▲, 3@▲, 4▲, 50@▲, **F/TV** 10, 10H, **GEO** 4▲, 5, 10▲, **HIST** 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, **HUMA** 10@, 10H@, 30@, **ICS** 2A, 2B, 4, 7, 7H, 9, 10, 16A, 16B, 17▲, 17H▲, 18A, 18B, 19, 25▲, 26, 27▲, 27H▲, 29, 30, 31, 32, 36▲, 37, 38A, 38B, 41, 42, 43, 47, **INTL** 5, 8▲, 33, **JOUR** 2, **KNES** 47@, **POLI** 1▲, 1H▲, 2▲, 3▲, 5▲, 15*▲, 16*▲, 17*▲, 17H*▲, 60A, 60B, 60C, **PSYC** 1, 2, 3, 4, 5, 6, 8@, 9@, 10G, 10H, 12@, 14@, 24, 51@, **SOSC** 60A, 60B, 60C, **SOC** 1, 5▲, 14, 20▲, 28, 29, 35, **WMST** 1*@▲, 3C@, 8*@, 9@, 9H@, 12@, 22*@, 24*, 25*@, 26*@, 27*@, 28, 29*@, 31*@

## AREA E: PHYSICAL/MENTAL WELLNESS AND PERSONAL DEVELOPMENT   (2-5 Quarter Units)
☐ At least **one unit** must be completed from **DANC/KNES/PE/PEA** Activities.

**Personal Development:**
**ANTH** 2@, 2H@, **BUS** 56, **C D** 61, 64, **COMM** 16@, 16H@, **CIS** 2@, **CLP** 7, **E S** 2@▲, **ESCI** 30@▲, **HLTH** 21, **HIST** 9@, 9H@, **HUMA** 10@, 10H@, 20, 30@, **HUMI** 16@, **KNES** 45, 46, 47@, 48, 50A (3 units), 51A (3 units), 52 (3 units), 53, 54, 55, **NUTR** 10, **PSYC** 8@, 9@, 12@, 14@, 51@, **WMST** 1*@▲, 9@, 9H@, 12@

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**Dance (DANC) / Kinesiology (KNES) / Physical Education (PE) / Physical Education/Adapted (PEA) Activities:**
**DANC** 22, 22K, **22L**, **22M**, **23A**, **23B**, **23C**, **23L**, **23M**, **23N**, **24A**, **24B**, **24C**, **25A**, **25B**, **37A**, **37B**, **37C**

**KNES** 1A, **1B**, **1C**, **1CX**, **1D**, **1DX**, **2A**, **2AX**, **2B**, **2BX**, **5A**, **5AX**, **5B**, **5BX**, **6A**, **6AX**, **7A**, **7AX**, **9A**, **9AX**, **9B**, **9BX**,**11A**,**11AX**,**11B**,**11BX**,**12D**, **12DX**, **12E**, **12EX**, **12G**, **12H**, **12HX**, **12J**, **12JX**, **15A**, **15AX**, **15C**, **15CX**, **15E**, **15EX**, **15EY**, **15F**, **15FX**, **16A**, **16AX**, **16AY**, **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**, **32E**, **32EX**, **32F**, **32FX**, **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**,**40B**, **40BX**, **40C**, **40CX**, **41A**, **41AX**, **41B**, **41BX**, **41C**, **41CX**, **42C**, **42CX**, **50**AL, **51**AL

**PE** 32B, **32BX**, **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**

**PEA** 1, **1X**, **1Y**, **1Z**, **2**, **2X**, **2Y**, **2Z**, **4**, **4X**, **4Y**, **4Z**, **5**, **5X**, **5Y**, **5Z**, **6Y**, **15**, **15X**, **15Y**, **15Z**

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

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

**Total Units (32 - 43 Quarter Units)**

**\*** - In addition to ICS, courses with asterisks meet ICS requirement in Area C, D and E.
**▲** - Course meets Environmental Sustainability and Global Citizenship (ESGC) requirement.
**@** - Courses listed in two areas can only be counted in one.

*Transfer to All Campuses - California State University (CSU)*
**CSU General Education/Breadth Requirements for 2020-2021**
Effective: Fall 2020 through Summer 2021

**DeAnza College**
**21250 Stevens Creek Blvd.**
**Cupertino, California 95014**

Student Name: _____     Campuswide ID: _____

The CSU General Education-Breadth program allows California community college transfer students to fulfill lower-division general education requirements for any CSU campus prior to transfer. Catalog year rights and rules of continuing attendance do not apply to CSU certification. A course is certifiable if, and only if, it was on the CSU GE requirement list at the time the course was taken. Transfer credit limitations may apply, see **assist.org** for more information. 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 and online at **deanza.edu/admissions/forms**. For CSU transfer information, go to: **https://www2.calstate.edu/apply/transfer**.

| | Units IP/P | Units C |
|---|---|---|
| Use the columns located to the right to track units in-progress/planned and completed:  **IP/P** = In-Progress/Planned  **C** = Completed | | |
| **AREA A: ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING**  **12-15 Quarter Units** <br> At least **1 course each** from **Areas A1, A2 and A3**.  All courses must be completed with a grade of C or better. | | |
| **A1 – Oral Communication**       **COMM** 1, 1H, 10, 10H <br><br> Other Course: _____ College: _____  **No AP/IB Exam Credit for Area A1** | | |
| **A2 – Written Communication**    **EWRT** 1A, 1AH **or** (1AS & 1AT) (if this option is selected, *both* courses must be completed for A2 credit; 5 units will be applied towards G.E.) **or ESL** 5 <br><br> Other Course: _____ College: _____ *AP Exam Credit:_____ Qtr. Units: _____ | | |
| **A3 – Critical Thinking**        **COMM** 8, 8H, 9, 9H, 15, 15H **or EWRT** 2, 2H **or PHIL** 3, 4, 7, 7H **or READ** 10 <br><br> Other Course: _____ College: _____  **No AP/IB Exam Credit for Area A3** | | |
| **AREA B: SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING**  **12-15 Quarter Units** <br> At least **1 course each** from **Physical Science**, **Life Science** and **Mathematics/Quantitative Reasoning**. <br> At least **1 science course** must contain a laboratory component. Courses with a laboratory are <u>underlined</u>. | | |
| **B1 – Physical Science**   **ASTR** 4, 4/<u>15L</u>, 10, 10/<u>15L</u>, **CHEM** <u>1A</u>, <u>1AH</u>, <u>1B</u>, <u>1BH</u>, <u>1C</u>, <u>1CH</u>, 10, 25, <u>30A</u>, <u>30B</u>, **GEO** 1, **GEOL** <u>10</u>, 20, **MET** 10, 10/<u>10L</u>, 10/<u>20L</u>, 12, **PHYS** <u>2A</u>, <u>4A</u>, 10 <br><br> Other Course: _____ College: _____ *AP/IB Exam/CLEP Credit: _____ Qtr. Units: _____ | | |
| **B2 – Life Science**   **ANTH** 1, 1H, 1/<u>1L</u>, 1H/<u>1L</u>, 7, **BIOL** <u>6A</u>, <u>6AH</u>, <u>6B</u>, <u>6C</u>, <u>6CH</u>, 10, <u>10H</u>, <u>11</u>, <u>13</u>, <u>15</u>, <u>26</u>, <u>40C</u>, **ESCI** 1, 1/<u>1L</u>, <u>19</u>, 60 <br><br> Other Course: _____ College: _____ *AP/IB Exam/CLEP Credit: _____ Qtr. Units: _____ | | |
| **B3 – Laboratory Activity** (<u>Underlined</u> courses in Areas B1 and B2 include an approved lab.)   **Check if lab requirement met** | ☐ | |
| **B4 – Mathematics/Quantitative Reasoning** (A grade of C or better is required.)  Select one course from the following**:** <br> **BUS** 54, **EDUC** 46, **MATH** 1A, 1AH, 1B, 1BH, 1C, 1CH, 1D, 1DH, 2A, 2AH, 2B, 2BH, 10, 10H, 11, 11H, 12, 17, 22, 23, 31 **or** (31A & 31B) (if this option is selected, *both* courses must be completed for B4 credit), 32, 41, 41H, 42, 42H, 43, 43H, 44, 46, **PSYC** 15, **SOC** 15 <br><br> Other Course: _____ College: _____ *AP/IB Exam/CLEP Credit: _____ Qtr. Units: _____ | | |
| **AREA C: ARTS AND HUMANITIES**  **12-15 Quarter Units** <br> Select **3 courses**, with at least **1** course in the **Arts** and **1** course in the **Humanities**. **EWRT** 1B, 1BH or **ESL** 6 is strongly recommended for students who do not select **COMM** 9, 9H or **EWRT** 2, 2H or **PHIL** 3 in **Area A3**. <br> See **CSU U.S. History, Constitution, and American Ideals (AI) graduation requirement** at the end of this document. | | |
| **C1 – Arts: (Arts, Cinema, Dance, Music, Theater)** <br> **ARTS** 1A, 1B, 2A, 2B, 2C, 2D, 2F#, 2G, 2H, 2J, 2K, 2L, 3TC#, 3TE, **ASAM** 40, **DANC** 38A, **E S** 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** 21, 22, 23, 24, **MUSI** 1A, 1B, 1C, 1D, **PHTG** 7, 21, **THEA** 1, **WMST** 3C# <br><br> Other Course: _____ College: _____ *AP/IB Exam Credit: _____ Qtr. Units: _____ | | |
| **C2 – Humanities: (Literature, Philosophy, Languages Other than English)** <br> **ASAM** 20, 21, 32, 41, **ESL** 6, **ELIT** 8, 10, 10H, 11, 12, 17, 17H, 19, 21, 22, 24, 28, 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#, 2BWH#, 2C#, 2CH#, 2CW#, 2CWH#, **FREN** 1, 2, 3, 4, 5, 6, **GERM** 1, 2, 3, 4, 5, 6, **HNDI** 1, 2, 3, **HIST** 3A#, 3AH#, 3B#, 3BH#, 3C#, 3CH#, 6A#, 6AH#, 6B#, 6BH#, 6C#, 6CH#, 17A#, 17AH#, 17B#, 17BH#, 17C#, 17CH#, **HUMI** 1#, 1H#, 2, 5, 6, 7, 9, 9H, 10, 13, 16#, 18, 18H, 20, **ICS** 11#, 12, 35, 44, 46, **INTL** 16, **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, 8H, 11, 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#, 27#, 29#, 31#, 49 <br><br> Other Course: _____ College: _____ *AP/IB Exam/CLEP Credit: _____ Qtr. Units: _____ <br> (C1 or C2) Other Course: _____ College: _____ *AP/IB Exam (C1/C2)/CLEP Credit (C2): _____ Qtr. Units: _____ | | |

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

## AREA D: SOCIAL SCIENCES             12-15 Quarter Units

Select **3 courses** from at least **2 disciplines**.
See **CSU U.S. History, Constitution, and American Ideals (AI)** graduation requirement at the end of this document.

**ADMJ** 29, **ANTH** 2, 2H, 3, 4, 5, 6, 8, 12, **ARTS** 2F#, 3TC#, **ASAM** 1, 10, 11, 12, 13, 30, 31, 42A, 42B, 50, **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** 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, **HUMA** 10#, 10H#, 30#, **ICS** 4, 5#, 7, 7H, 9, 10, 11#, 16A, 16B, 17, 17H, 18A, 18B, 19, 25, 26, 27, 27H, 29, 30, 31, 32, 36, 37, 38A, 38B, 41, 42, 43, 47, **INTL** 5, 8, 33, **JOUR** 2, **KNES** 47#, 54, **POLI** 1, 1H, 2, 3, 5, 15, 16, 17, 17H, 60A, 60B, 60C, **PSYC** 1, 2, 3, 4, 5, 6, 8#, 9#, 10G, 10H, 12#, 14#, 24, 51#, **SOSC** 60A, 60B, 60C, **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** 7, **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** 45, 47#, 50A (3 units), 51A (3 units), 52 (3 units), 53, 55, **NUTR** 10, **PSYC** 8#, 9#, 12#, 14#, 51#, **WMST** 1#, 9#, 9H#, 12#

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***Dance (DANC) Activity Courses*:**
 **DANC 22**, **22**K, **22**L, **22**M, **23**A, **23**B, **23**C, **23**L, **23**M, **23**N, **24**A, **24**B, **24**C, **25**A, **25**B, **37**A, **37**B, **37**C

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

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

***Physical Education - Adapted (PEA) Activity Courses*:**
 **PEA 1**, **1**X, **1**Y, **1**Z, **2**, **2**X, **2**Y, **2**Z, **4**, **4**X, **4**Y, **4**Z, **5**, **5**X, **5**Y, **5**Z, **6**Y, **15**, **15**X, **15**Y, **15**Z

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

| **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 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.
**\*** - For California State University's External Exam Credit information, go to:
 **www2.calstate.edu/attend/studentservices/casper/pages/external-exam-credit.aspx**

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

**POLI** 1 or 1H may be used as part of the 12-15 quarter units required in Area D.

**HIST** 17A, 17AH, or 17B, 17BH, or 17C, 17CH may be used as part of the 12-15 quarter units required in Area C or Area D.

*Transfer to All Campuses - UC/CSU*
**Intersegmental General Education Transfer Curriculum (IGETC) for 2020-2021**
Effective: Fall 2020 through Summer 2021

DeAnza College
21250 Stevens Creek Blvd.
Cupertino, California 95014

Student Name: _____ Campuswide ID: _____

Completion of requirements on the Intersegmental General Education Transfer Curriculum (IGETC) will permit a student to transfer from a community college to a campus in either the California State University or the University of California system without the need, after transfer, to take additional lower-division, general education courses to satisfy campus general education requirements. All courses must be completed with grades of C or better OR with a Pass if the course was taken on a Pass/No Pass (P/NP) basis and the Pass is equal to a C grade or higher. Many colleges and universities require letter grades for major coursework, and/or have other restrictions on P/NP grades. Students are advised to consult with a counselor/academic adviser before selecting the P/NP option. A course is certifiable if, and only if, it was on the IGETC requirement list at the time the course was taken. See a counselor/academic adviser about UC majors, colleges, and professional schools which do not accept IGETC, and for other transfer requirements. Upon enrolling in final course requirements and receiving conditional admission to the university, students must submit a request for certification to the De Anza College Admissions and Records Office. G.E. Certification Request Forms are available at the Admissions and Records Office and online at: **deanza.edu/admissions/forms**.

| Use the columns located to the right to track units in-progress/planned and completed: **IP/P** = In-Progress/Planned **C** = Completed | Units IP/P | Units C |
|---|---|---|
| **AREA 1: ENGLISH COMMUNICATION** **9 - 15 Quarter Units** **CSU:** Select **3** courses, **1** course each from Groups 1A, 1B and 1C **UC:** Select **2** courses, **1** course each from Groups 1A and 1B | | |
| **Area 1A: English Composition** **EWRT** 1A, 1AH **or** (1AS* & 1AT*) (if this option is selected, *both* courses must be completed for Area 1A credit; 5 units will be applied towards G.E.) Other Course: _____ College: _____ AP Exam Credit: _____ Qtr. Units: _____ | | |
| **Area 1B: Critical Thinking-English Composition** **COMM** 9, 9H, **or EWRT** 2, 2H, **or PHIL** 3 Other Course: _____ College: _____ **No AP/IB Exam Credit for Area 1B** | | |
| **Area 1C: Oral Communication** (**CSU Requirement Only**) **COMM** 1, 1H, 10*, 10H* Other Course: _____ College: _____ **No AP/IB Exam Credit for Area 1C** | | |
| **AREA 2: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING** **4 - 5 Quarter Units** Select **1** course below. | | |
| **MATH** 1A*, 1AH*, 1B, 1BH, 1C, 1CH, 1D, 1DH, 2A, 2AH, 2B, 2BH, 10*, 10H*, 11, 11H, 12*, 17*, 22, 23*, 31* **or** (31A & 31B)* (if this option is selected, *both* courses must be completed for Area 2 credit), 32*, 43*, 43H*, 44, **PSYC** 15*, **SOC** 15* Other Course: _____ College: _____ AP/IB Exam Credit: _____ Qtr. Units: _____ | | |
| **AREA 3: ARTS AND HUMANITIES** **12 - 15 Quarter Units** At least 3 courses below, including **1** course from the **Arts** and **1** from **Humanities**. | | |
| **3A – Arts: ARTS** 1A, 1B, 2A, 2B, 2C, 2D, 2F, 2G, 2H, 2J, 2K, 2L, 3TC#, 3TE, **ASAM** 40, **DANC** 38A, **E S** 3#, **F/TV** 1, 1H, 2A#*, 2AH#*, 2AW#*, 2AWH#*, 2B#*, 2BH#*, 2BW#*, 2BWH#*, 2C#*, 2CH#*, 2CW#*, 2CWH#*, **HUMI** 1#, 1H#, 15, **ICS** 5, 33, 45, **INTL** 21, 22, 23, 24, **MUSI** 1A, 1B, 1C, 1D, **PHTG** 7, 21, **THEA** 1, **WMST** 3C# Other Course: _____ College: _____ AP/IB Exam Credit: _____ Qtr. Units: _____ | | |
| **3B – Humanities: ASAM** 20, 21, 32, 41, **ESL** 6, **ELIT** 8, 10, 10H, 11, 12, 17, 17H, 19, 21, 22, 24, 28, 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#*, 2BWH#*, 2C#*, 2CH#*, 2CW#*, 2CWH#*, **FREN** 3, 4, 5, 6, **GERM** 3, 4, 5, 6, **HNDI** 3, **HIST** 3A#, 3AH#, 3B#, 3BH#, 3C#, 3CH#, 6A#, 6AH#, 6B#, 6BH#, 6C#, 6CH#, 17A#, 17AH#, 17B#, 17BH#, 17C#, 17CH#, **HUMI** 1#, 1H#, 2, 5, 6, 7, 9, 9H, 10, 13, 16, 18, 18H, 20, **ICS** 11#, 12, 35, 44, 46, **INTL** 16, **ITAL** 3, **JAPN** 3, 4, 5, 6, **KORE** 3, 3H, **LING** 1, **MAND** 3, 4, 5, 6, **PERS** 3, **PHIL** 1, 2, 8, 8H, 11, 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#, 27#, 29#, 31#, 49 Other Course: _____ College: _____ AP/IB Exam Credit: _____ Qtr. Units: _____ (3A or 3B) Other Course: _____ College: _____ AP/IB Exam Credit: _____ Qtr. Units: _____ | | |

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

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

| | | |
|---|---|---|
| **ADMJ** 29, **ANTH** 2, 2H, 3, 4, 5, 6, 8, 12, **ARTS** 3TC#, **ASAM** 1, 10, 11, 12, 13, 30, 31, 42A, 42B, **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** 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, **HUMA** 10, 10H, **ICS** 4, 7, 7H, 9, 10, 11#, 16A, 16B, 17, 17H, 18A, 18B, 19, 25, 26, 27, 27H, 29, 30, 31, 32, 36, 37, 38A, 38B, 41, 42, 43, 47,   **INTL** 5, 8, 33, **JOUR** 2, **KNES** 47, **POLI** 1, 1H, 2, 3, 5, 15, 16, 17, 17H, **PSYC** 1, 2, 3, 4, 5, 6, 8, 9, 10G, 10H, 12, 14, 24, **SOC** 1, 5, 14, 20, 28, 29, 35, **WMST** 1, 3C#, 8#, 9, 9H, 12, 22#, 24, 25#, 26#, 27#, 28, 29#, 31# | | |

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

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

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

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

| | | |
|---|---|---|
| **5A – Physical Sciences:**   **ASTR** 4, 4/<u>15L</u>, 10, 10/<u>15L</u>, **CHEM** <u>1A</u>, <u>1AH</u>, <u>1B</u>, <u>1BH</u>, <u>1C</u>, <u>1CH</u>, 10*, 25*, <u>30A</u>*, <u>30B</u>, **GEO** 1, **GEOL** <u>10</u>, 20, **MET** 10, 10/ <u>10L</u>, 10/<u>20L</u>, 12, **PHYS** <u>2A</u>*, <u>4A</u>*, 10* | | |

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

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

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

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

## AREA 6: LANGUAGE OTHER THAN ENGLISH (UC Requirement Only)
Students must demonstrate proficiency equivalent to two years of high school study in the same language. If requirement was met in high school, official transcripts must be on file at the De Anza College Admissions and Records Office. For more information on this requirement, go to: **deanza.edu/articulation/ge-uc-transfer**

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

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

| | | |
|---|---|---|
| **TOTAL UNITS FOR AREAS 1 - 6 (46-62+ Quarter Units):** | | |

**#** -  Courses listed in more than one area can count in only one area.
**✶** -  Indicates that transfer credit may be limited. See www.assist.org for more information.
**⋏** -  International Baccalaureate (IB) Exam does not fulfill the laboratory requirement in Area 5.

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### CSU/UC Graduation Requirement - NOT PART OF IGETC

**(CSU)** The **U.S. History, Constitution, and American Ideals (AI)** is a CSU graduation requirement, and it is strongly recommended that it be completed before transfer. This requirement may be fulfilled by completing **2 courses**: **POL**I 1 or 1H and **one** of the following U.S. History courses (**HIST** 17A, 17AH or 17B, 17BH or 17C, 17CH). **POLI** 1 or 1H may be used as part of the 12-15 quarter units required in Area 4 and HIST 17A, 17AH, or 17B, 17BH, or 17C, 17CH may be used as part of the 12-15 quarter units required in Area 3 or Area 4. However, each CSU campus has the discretion whether to allow courses completed in **Area 3** and **Area 4** to also satisfy the **AI** graduation requirement.

**(UC)** The **American History & Institutions** (**AH&I**) is a UC graduation requirement that may be met through examination or enrollment in specific courses. Each campus decides how its students may meet the requirement. <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). **Please check UC campus catalogs for more information, including other course options that may be available.**

# CERTIFICATE AND DEGREE PROGRAMS SECTION GUIDE

# CERTIFICATE AND 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. 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 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 – Noncredit Certificate, Skills Certificate, Certificate of Achievement, Certificate of Achievement-Advanced, A.A. or A.S. degree, AA.-T or A.S.-T degree – as specified below.

### Noncredit Certificates
Noncredit Certificates are issued by individual departments and are not notated on official college transcripts. Contact the department directly for assistance and to apply. Requirements:

- Completion of all major courses with at least a C grade, passing grade or satisfactory progress

Note: Each course must be completed at De Anza College.

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

- Completion of all major courses with 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. Requirements:

### Certificate of Achievement
- Completion of all major courses with a C grade or higher.

Note: No more than six quarter units may be transferred from other academic institutions.

### Certificate of Achievement-Advanced
- Completion of all major courses with a C grade or higher

- Demonstrated proficiency in English and mathematics as evidenced by eligibility for EWRT 1A or EWRT 1AH, EWRT 1AS with EWRT 1AT or ESL 5 and eligibility for MATH 114.

Note: No more than 18 quarter units may be transferred from other academic institutions.

### Associate Degrees (A.A. or A.S.)
- 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).

- Completion of all major courses with 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.

- 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 (A.A.-T. or A.S.-T.)
- Completion of all major courses with a C grade or higher. Major courses may be used to satisfy GE requirements.

- 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.

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

| | | |
|---|---|---|
| **Complete a minimum of nine units:** | | **9** |
| ACCT 51A | Intermediate Accounting (5) | |
| ACCT 51B | Intermediate Accounting (5) | |
| ACCT 52 | Advanced Accounting (5) | |
| ACCT 58 | Auditing (5) | |
| ACCT 64 | Payroll and Business Tax Accounting (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) | |
| ACCT 87AH | Computerized Accounting Programs I (Peachtree - Windows) (2) | |
| ACCT 87AI | Computerized Accounting Programs I (Quickbooks) (2) | |
| ACCT 87AJ | Computerized Accounting Programs I (Microsoft Dynamics GP) (2) | |
| ACCT 105 | Basic Financial Accounting Procedures (1) | |
| BUS 18 | Business Law I (5) | |
| | **Total Units Required** ...................................**26** | |

## Accounting

*Certificate of Achievement-Advanced*

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

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

| | | |
|---|---|---|
| **Complete a minimum of 28 units:** | | **28** |
| ACCT 51A | Intermediate Accounting (5) | |
| ACCT 51B | Intermediate Accounting (5) | |
| ACCT 52 | Advanced Accounting (5) | |
| ACCT 58 | Auditing (5) | |
| ACCT 64 | Payroll and Business Tax Accounting (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) | |
| ACCT 87AH | Computerized Accounting Programs I (Peachtree - Windows) (2) | |
| ACCT 87AI | Computerized Accounting Programs I (Quickbooks) (2) | |
| ACCT 87AJ | Computerized Accounting Programs I (Microsoft Dynamics GP) (2) | |
| ACCT 105 | Basic Financial Accounting Procedures (1) | |
| BUS 10* | Introduction to Business (5) | |
| BUS 18* | Business Law I (5) | |
| REST 50* | Real Estate Principles (4) | |
| | **Total Units Required** ...................................**45** | |

*A maximum of five 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 Certificate of Achievement-Advanced requirements* | *45* |
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required** ....................................**90** | |

# ADMINISTRATION OF JUSTICE

## Associate in Science in Administration of Justice for Transfer
### A.S.-T. Degree
The Administration of Justice major consists of courses appropriate for an Associate in Science in Administration of Justice for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). Potential careers students may enter upon completion of this program include law enforcement, probation, parole or security. The Associate in Science in Administration of Justice for Transfer is intended for students who plan to complete a bachelor's degree in Administration of Justice (or an approved similar major) 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.

| **Required Core:** | | **8** |
|---|---|---|
| ADMJ 1 | Introduction to Administration of Justice | 4 |
| | *also listed as POLI 10* | |
| ADMJ 3 | Concepts of Criminal Law (CP 2) | 4 |
| | *also listed as PARA 3 and POLI 13* | |

| **List A - Complete three courses:** | | **12** |
|---|---|---|
| ADMJ 6 | Crime, Correction and Society (4) | |
| ADMJ 54 | Youth and the Law (4) | |
| | *also listed as PARA 54 and SOC 54* | |
| ADMJ 61 | Criminal Investigation (4) | |
| ADMJ 75 | Principles and Procedures of the Justice System (4) | |
| | *also listed as PARA 75 and POLI 75* | |
| ADMJ 84 | Forensic Science (4) | |
| ADMJ 90A | Legal Aspects of Evidence (CP 4) (4) | |
| | *also listed as PARA 90A* | |

| **List B - Complete two courses below or from List A (not already taken):** | | **8-10** |
|---|---|---|
| PARA 95 | Overview of American Law (4) | |
| | *also listed as ADMJ 95 and POLI 95* | |
| POLI 1 | American Government and Politics (5) | |
| or POLI 1H | American Government and Politics - HONORS (5) | |
| PSYC 1 | General Psychology (4) | |
| SOC 1 | Introduction to Sociology (4) | |
| SOC 15 | Statistics and Research Methods in Social Science (4) | |
| | *also listed as PSYC 15* | |
| or MATH 10 | Introductory Statistics (5) | |
| or MATH 10H | Introductory Statistics - HONORS (5) | |

| | | |
|---|---|---|
| *Major* | *Administration of Justice for Transfer* | *28-30* |
| *Transfer GE* | *CSU GE or (IGETC for CSU) (47-61 units)* | |
| *Electives* | *CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90* | |
| | **Total Units Required** ....................................**90** | |

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

*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

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

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

| | | |
|---|---|---|
| **Complete five courses:** | | **14-20** |
| ADMJ 3 | Concepts of Criminal Law (CP 2) (4) | |
| | *also listed as PARA 3 and POLI 13* | |
| ADMJ 11 | Federal Courts and Constitutional Law (4) | |
| | *also listed as PARA 11 and POLI 11* | |
| ADMJ 25 | Law and Social Change (4) | |
| | *also listed as PARA 25* | |
| ADMJ 29 | Cultural Pluralism and American Law and Justice (4) | |
| | *also listed as ICS 29* | |
| ADMJ 51 | Women in Crime (4) | |
| | *also listed as SOC 51* | |
| ADMJ 55 | Alcohol, Narcotics and Drug Abuse (4) | |
| ADMJ 62 | Sexual Assault, Police and Community Response (4) | |
| | *also listed as PSYC 63* | |
| ADMJ 64 series | ADMJ 64, 64X, 64Y, 64Z Administration of Justice Internship (1-4) | |
| ADMJ 69 | Administration of Justice Field Trips (1) | |
| ADMJ 84 | Forensic Science (4) | |
| ADMJ 90A | Legal Aspects of Evidence (CP 4) (4) | |
| | *also listed as PARA 90A* | |
| PARA 95 | Overview of American Law (4) | |
| | *also listed as ADMJ 95 and POLI 95* | |

| | | |
|---|---|---|
| *Major* | *Corrections/Probation* | *46-52* |
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required ...................................90** | |

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

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

| | | |
|---|---|---|
| ADMJ 1 | Introduction to Administration of Justice | 4 |
| | *also listed as POLI 10* | |
| ADMJ 3 | Concepts of Criminal Law (CP 2) | 4 |
| | *also listed as PARA 3 and POLI 13* | |
| ADMJ 90A | Legal Aspects of Evidence (CP 4) | 4 |
| | *also listed as PARA 90A* | |
| 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) | |
| | **Total Units Required .......................... 29.5-30** | |

## 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 | 4 |
| | *also listed as POLI 10* | |
| ADMJ 3 | Concepts of Criminal Law (CP 2) | 4 |
| | *also listed as PARA 3 and POLI 13* | |
| 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 | 4 |
| | *also listed as PARA 75 and POLI 75* | |
| ADMJ 90A | Legal Aspects of Evidence (CP 4) | 4 |
| | *also listed as PARA 90A* | |

**Complete five courses:**     **14-20**

| | |
|---|---|
| ADMJ 6 | Crime, Correction and Society (4) |
| ADMJ 11 | Federal Courts and Constitutional Law (4) |
| | *also listed as PARA 11 and POLI 11* |
| ADMJ 25 | Law and Social Change (4) |
| | *also listed as PARA 25* |
| ADMJ 29 | Cultural Pluralism and American Law and Justice (4) |
| | *also listed as ICS 29* |
| ADMJ 51 | Women in Crime (4) |
| | *also listed as SOC 51* |
| ADMJ 53 | Criminal Law II (4) |
| ADMJ 54 | Youth and the Law (4) |
| | *also listed as PARA 54 and SOC 54* |
| ADMJ 55 | Alcohol, Narcotics and Drug Abuse (4) |
| ADMJ 62 | Sexual Assault, Police and Community Response (4) |
| | *also listed as PSYC 63* |
| ADMJ 64 series | ADMJ 64, 64X, 64Y, 64Z Administration of Justice Internship (1-4) |
| ADMJ 69 | Administration of Justice Field Trips (1) |
| ADMJ 73 | Crime and Criminology (4) |
| | *also listed as SOC 73* |
| ADMJ 74A | Interviewing, Interrogation and Crisis Intervention (4) |
| | *also listed as PARA 74A and PSYC 74A* |
| ADMJ 84 | Forensic Science (4) |
| PARA 95 | Overview of American Law (4) |
| | *also listed as ADMJ 95 and POLI 95* |

| | | |
|---|---|---|
| *Major* | *Law Enforcement* | *42-48* |
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required ....................................90** | |

## Associate in Arts in Law, Public Policy, and Society for Transfer
### *A.A.-T. Degree*

The Law, Public Policy, and Society major consists of courses appropriate for an Associate in Arts in Law, Public Policy, and Society 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 Law, Public Policy, and Society for Transfer is intended for students who plan to complete a bachelor's degree in Law, Public Policy, and Society (or an approved similar major) 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*

- Define and analyze the discipline of philosophy with a sustained focus on the ethics branch of philosophy
- Compare and analyze the key aspects of political systems within the concepts of state, state and society, political culture and political economy
- Identify and evaluate the process of economic decision-making within the context of social science
- Describe and explain the roles of major ethnic, cultural, social and gender groups in the development of United States political institutions and traditions
- Define and assess the critical role of both group and individual action in democratic decision-making
- Identify and evaluate how laws and the legal system affect the development and implementation of public policy and social control

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

**Required Core:**     **39-42**

**Understanding the Law - Complete one course:**     **4-5**

| | |
|---|---|
| ADMJ 1 | Introduction to Administration of Justice (4) |
| | *also listed as POLI 10* |
| ADMJ 75 | Principles and Procedures of the Justice System (4) |
| | *also listed as PARA 75 and POLI 75* |
| BUS 18 | Business Law I (5) |

**Ethics - Complete one course:**     **4**

| | |
|---|---|
| PHIL 8 | Ethics (4) |
| or PHIL 8H | Ethics - HONORS (4) |

**Oral Communication - 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 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)

**Written Communication - Complete one course:**     **5**
EWRT 1A Composition and Reading (5)
 or EWRT 1AH Composition and Reading - HONORS (5)

**Critical Thinking - Complete one course**
**(not already taken):**     **4-5**
COMM 8 Argumentation and Critical Inquiry in
Oral Communication (5)
 or COMM 8H Argumentation and Critical Inquiry in
Oral Communication - HONORS (5)
EWRT 2 Critical Reading, Writing and Thinking (5)
 or EWRT 2H Critical Reading, Writing and
Thinking - HONORS (5)
PHIL 7 Deductive Logic (4)
 or PHIL 7H Deductive Logic - HONORS (4)

**Quantitative Reasoning - Complete one course:**     **4-5**
MATH 10 Introductory Statistics (5)
 or MATH 10H Introductory Statistics - HONORS (5)
PSYC 15 Statistics and Research Methods in
Social Science (4)
*also listed as SOC 15*

**US History - Complete two courses:**     **8**
HIST 17B History of the United States
from 1800 to 1900 (4)
 or HIST 17BH History of the United States
from 1800 to 1900 - HONORS (4)
HIST 17C History of the United States
from 1900 to the Present (4)
 or HIST 17CH History of the United States
from 1900 to the Present- HONORS (4)

**Introduction to American Government -**
**Complete one course:**     **5**
POLI 1 American Government and Politics (5)
 or POLI 1H American Government
and Politics - HONORS (5)

**List A - Complete two courses (not already taken)**
**in two areas:**     **8-9**
**Area 1 - Administrative of Justice/Criminal Justice/**
**Criminology:**
ADMJ 6 Crime, Correction and Society (4)

**Area 2 - Business:**
BUS 18 Business Law I (5)

**Area 3 - Economics:**
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)

**Area 4 - Political Science:**
POLI 2 Comparative Politics (4)
POLI 5 Introduction to Political Thought and Theory (4)

**Area 5 - Public Policy:**
SOC 20 Social Problems (4)

**Area 6 - Diversity:**
ANTH 2 Cultural Anthropology (4)
 or ANTH 2H Cultural Anthropology - HONORS (4)
ICS 4 Race, Ethnicity and Inequality (4)
 or SOC 29 Sociology of Structural Racism in the
United States (4)

**Area 7 - College Success:**
HUMA 20 Life Skills for Higher Education (4)

*Major*     *Law, Public Policy, and Society*
*for Transfer*     *47-51*
*Transfer GE*     *CSU GE or (IGETC for CSU) (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**

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

**Complete a minimum of 25 units:**     **25**
ADMJ 3 Concepts of Criminal Law (CP 2) (4)
*also listed as PARA 3 and POLI 13*
ADMJ 6 Crime, Correction and Society (4)
ADMJ 11 Federal Courts and Constitutional Law (4)
*also listed as PARA 11 and POLI 11*

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

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

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

| **Complete a minimum of 22 units:** | | **22** |
| ADMJ 6 | Crime, Correction and Society (4) | |
| ADMJ 11 | Federal Courts and Constitutional Law (4) | |
| | *also listed as PARA 11 and POLI 11* | |
| ADMJ 29 | Cultural Pluralism and American Law and Justice (4) | |
| | *also listed as ICS 29* | |
| ADMJ 53 | Criminal Law II (4) | |
| ADMJ 54 | Youth and the Law (4) | |
| | *also listed as PARA 54 and SOC 54* | |
| ADMJ 55 | Alcohol, Narcotics and Drug Abuse (4) | |
| ADMJ 61 | Criminal Investigation (4) | |
| ADMJ 64 series | ADMJ 64X, 64Y, 64Z Administration of Justice Internship (2-4) | |
| ADMJ 69 | Administration of Justice Field Trips (1) | |
| ADMJ 73 | Crime and Criminology (4) | |
| | *also listed as SOC 73* | |

| ADMJ 74A | Interviewing, Interrogation and Crisis Intervention (4) | |
| | *also listed as PARA 74A and PSYC 74A* | |
| ADMJ 84 | Forensic Science (4) | |
| ADMJ 90A | Legal Aspects of Evidence (CP 4) (4) | |
| | *also listed as PARA 90A* | |
| PARA 95 | Overview of American Law (4) | |
| | *also listed as ADMJ 95 and POLI 95* | |
| | | |
| *Major* | *Private Security* | *38* |
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required ....................................90** | |

# ANTHROPOLOGY

## Associate in Arts in Anthropology for Transfer
### *A.A.-T. Degree*
The Anthropology major consists of courses appropriate for an Associate in Arts in Anthropology for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). The Associate in Arts in Anthropology for Transfer is intended for students who plan to complete a bachelor's degree in Anthropology (or an approved similar major) 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 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
- Apply anthropological skills to address issues facing humanity both locally and globally

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

| **Required Core:** | | **12** |
| ANTH 1 | Physical Anthropology | 4 |
| or ANTH 1H | Physical Anthropology - HONORS | |
| ANTH 2 | Cultural Anthropology | 4 |
| or ANTH 2H | Cultural Anthropology - HONORS | |
| ANTH 3 | Introduction to Archaeology | 4 |

**List A - Complete one course:** **4**
ANTH 4        World Prehistory (4)
ANTH 6        Linguistic Anthropology (4)

**List B - Complete one course below or**
**from List A (not already taken):** **4-5**
GEOL 10      Introductory Geology (5)
SOC 14        The Process of Social Research (4)

**List C - Complete three courses below or**
**from List A or B (not already taken):** **9-13**
ANTH 1L      Physical Anthropology Laboratory (1)
ANTH 5        Magic, Science and Religion (4)
ANTH 7        Introduction to Forensic Anthropology (4)
ANTH 8        Medical Anthropology:
                 Methods and Practices (4)
ANTH 12      Introduction to Applied Anthropology (4)
ANTH 68      Anthropology and Museums (4)

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

*Recommended*
ANTH 1L

# ART

## Associate in Arts in
## Art History for Transfer
### *A.A.-T. Degree*

The Art History major consists of courses appropriate for an
Associate in Arts in Art 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 Art History for Transfer is
intended for students who plan to complete a bachelor's
degree in Art History (or an approved similar major) 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*
- Differentiate between, collect, and analyze primary and
secondary source information related to analysis of works of
art
- Analyze the social experiences of artists, demonstrating how
artists' relationships with their patrons were defining factors
in producing works of art

- Investigate the different techniques, materials, and tools
utilized in production, through written analysis based on
observation of original works of art

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

**Required Core:** **20**
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 4A      Beginning Drawing      4

**List A - Complete one course:** **4**
ARTS 2G      History of Art: Arts of Asia (4)
                 *also listed as ASAM 40*
ARTS 2J       History of Art: Arts of Africa, Oceania and
                 Native North America (4)
                 *also listed as INTL 22*
ARTS 2K      History of Art: Visual Arts of Islam (4)
                 *also listed as INTL 23*
ARTS 2L      History of Art: Visual Arts of Africa (4)
                 *also listed as INTL 24*

**List B - Complete one course:** **3-4**
ARTS 3TE     Today's Art Scene (4)
ARTS 4C      Life Drawing (4)
ARTS 8        Two-Dimensional Design (4)
ARTS 10A     Three-Dimensional Design (4)
ARTS 18A     Ceramics (4)
ARTS 37A     Sculpture (4)
ARTS 53      Introduction to Graphic Design:
                 Vector Illustration (4)
PHTG 1        Basic Photography (3)

**List C - Complete one course below or**
**from List A or B (not already taken):** **4**
ANTH 2        Cultural Anthropology (4)
 or ANTH 2H   Cultural Anthropology - HONORS (4)
ANTH 3        Introduction to Archaeology (4)
ANTH 4        World Prehistory (4)
ARTS 1A      Introduction to the Visual Arts (4)
ARTS 1B      Architecture Past and Present (4)
ARTS 3TC     Women and Art (4)
                 *also listed as WMST 3C*
F/TV 1         Introduction to Cinematic Arts (4)
 or F/TV 1H    Introduction to Cinematic Arts - HONORS (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 to 1750 CE (4)
 or HIST 3BH   World History from
                 750 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)
HUMI 1        Creative Minds (4)
 or HUMI 1H    Creative Minds - HONORS (4)

| HUMI 2 | But is it Art? Questions and Criticism (4) |
| HUMI 6 | Popular Culture (4) |
| HUMI 7 | The Arts and the Human Spirit (4) |
| HUMI 9 | Introduction to Comparative Religion (4) |
| or HUMI 9H | Introduction to Comparative Religion - HONORS (4) |
| HUMI 10 | Global Religious Perspectives: Judaism, Christianity and Islam (4) |
| HUMI 15 | Discussion on the Arts (4) |
| HUMI 18 | History as Mystery: A Critique of Western Perspectives in a Global Context (4) |
| or HUMI 18H | History as Mystery: A Critique of Western Perspectives in a Global Context - HONORS (4) |
| HUMI 20 | The Greek Achievement (4) |
| PHTG 7 | Exploring Visual Expression (4) |
| PHTG 21 | Contemporary Trends in Photography (4) |

| *Major* | *Art History for Transfer* | *31-32* |
| *Transfer GE* | *CSU GE or (IGETC for CSU) (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** | |

# 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 ethnic contexts and issues relevant to women's and gender studies
- Demonstrate critical thinking and visual literacy skills through oral and written communication, including those used to analyze, evaluate and synthesize primary and secondary sources
- Analyze artistic traditions through a cross-cultural perspective and in a global context
- Apply technical processes of studio art in written assignments in the field of Art History

### *Certificate of Achievement-Advanced*
1. Meet the requirements for this certificate level.
2. Complete the following.

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

| **Complete three courses:** | | **12** |
| ARTS 1B | Architecture Past and Present (4) | |
| ARTS 2G | History of Art: Arts of Asia (4) *also listed as ASAM 40* | |
| ARTS 2H | History of Art: Native Arts of Mesoamerica and the Andes (4) *also listed as INTL 21* | |
| ARTS 2J | History of Art: Arts of Africa, Oceania and Native North America (4) *also listed as INTL 22* | |
| ARTS 2K | History of Art: Visual Arts of Islam (4) *also listed as INTL 23* | |
| ARTS 2L | History of Art: Visual Arts of Africa (4) *also listed as INTL 24* | |

| **Complete three 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 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 Graphic Design: Vector Illustration (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 Certificate 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

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

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

**Complete two courses:** **6-8**
| ARTS 18E | Ceramics (Advanced Wheel Throwing) (4) | |
| ARTS 19H | Ceramics Raku (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* | *34-36* |
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required** | **90** |

## Museum Studies
### *Skills Certificate*
Skills Certificates are awarded by departments and are not notated on official college transcripts. Contact the department directly for assistance and to apply.

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 and 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 and gallery environment.

*Program Learning Outcomes: Upon completion, students will be able to*
- Compare and contrast gallery and 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 or museum work environments

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

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

## Painting
### *A.A. Degree*
This A.A. degree provides a comprehensive foundation in the areas of design, color theory, multiple painting processes, and professional software 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 six courses:** **24**
| ARTS 14A | Watercolor Painting I (4) | |
| ARTS 14B | Watercolor Painting II (4) | |
| ARTS 14C | Watercolor Painting III (4) | |
| ARTS 15A | Acrylic Painting I (4) | |
| ARTS 15B | Acrylic Painting II (4) | |
| ARTS 15C | Acrylic Painting III (4) | |

| ARTS 16A | Oil Painting I (4) |
| ARTS 16B | Oil Painting II (4) |
| ARTS 16C | Oil Painting III (4) |

| *Major* | *Painting* | *52* |
|---|---|---|
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required** ...................................**90** | |

## Sculpture
### *A.A. Degree*
This 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) | |

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

## Spatial Art
### *A.A. Degree*
The Spatial Art degree will help De Anza students smoothly transfer to San José 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) *also listed as ASAM 40* | |
|---|---|---|

**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) |

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

# ASIAN AMERICAN AND ASIAN STUDIES

**NEW**

## Asian American Studies
### Certificate of Achievement

The Certificate of Achievement in Asian American Studies prepares students to be historically informed and equity-minded participants and leaders in the multi-ethnic and multiracial communities in which they live, work, learn, and play — especially in settings that directly impact Asian Americans and Pacific Islanders. Students who complete the certificate will gain the skills and knowledge to assess and affect the social conditions and institutional settings that shape the lives of Asian Americans and Pacific Islanders, with particular attention to the cross-cutting forces of race, gender, class and sexuality. For students with professional pursuits in mind, completion of the certificate will increase leadership capacity to research, understand, communicate and work with various Asian American and Pacific Islander communities, whether through community organizing, nonprofit organizations, public policy, public service or business. For students with transfer pursuits in mind, completion of the certificate includes transferable general education credits to universities and colleges, and also greater academic preparation for the social sciences and humanities, including an Asian American Studies or Ethnic Studies major. Colleges that offer a baccalaureate major in Asian American Studies include the University of California campuses at Berkeley, Davis, Irvine, Los Angeles, Riverside and Santa Barbara, and the California State University campuses at Long Beach, Los Angeles, Northridge and San Francisco.

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

- Analyze concerns that animate Asian American and Pacific Islander communities in the context of social relations of power as well as Asian American and Pacific Islander histories
- Assess the strategies, tactics, and complexities of community formation and community empowerment for Asian Americans and Pacific Islanders pan-ethnically and for specific populations
- Employ analytical skills of the social sciences, interpretive methods of the humanities, leadership resources of community organizing, and the creative impulses of social change toward promoting greater social justice and equity, with particular attention to Asian American and Pacific Islander communities

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

| ASAM 1 | Asian American Experiences Past to Present | 4 |

| **Complete two-three courses:** | | **8-12** |
| --- | --- | --- |
| ASAM 10 | Contemporary Asian American Communities (4) | |
| ASAM 11 | Asian Americans and Racism (4) | |
| ASAM 12 | Asian Americans and American Ideals, Institutions and Politics (4) | |
| ASAM 13 | The U.S. and Asian (4) | |
| ASAM 20 | Asian Pacific American Literature (4) *also listed as ELIT 24* | |
| ASAM 21 | Asian Pacific Americans Make Culture (4) | |
| ASAM 50 | Civic Leadership for Community Empowerment (4) | |

| **Complete two courses if two courses selected above OR one course if three courses selected above:** | | **4-9** |
| --- | --- | --- |
| ASAM 30 | Filipinx American History and Culture (4) | |
| ASAM 31 | Introduction to Pacific Islander History and Culture (4) | |
| ASAM 32 | Vietnamese Literature (from Tradition to Asian American Identity) (4) | |
| ASAM 40 | History of Art: Arts of Asia (4) *also listed as ARTS 2G* | |
| ASAM 41 | Introduction to Korean Popular Culture (4) *also listed as HUMI 13* | |
| ASAM 42A | History of Asian Civilization: China and Japan (to the 19th Century) (4) *also listed as HIST 19A* | |
| ASAM 42B | History of Asian Civilization: China and Japan (19th - 21st Centuries) (4) *also listed as HIST 19B* | |
| HNDI 1* | Elementary Hindi (First Quarter) (5) | |
| HNDI 2* | Elementary Hindi (Second Quarter) (5) | |
| HNDI 3* | Elementary Hindi (Third Quarter) (5) | |
| JAPN 1* | Elementary Japanese (First Quarter) (5) | |
| JAPN 2* | Elementary Japanese (Second Quarter) (5) | |
| JAPN 3* | Elementary Japanese (Third Quarter) (5) | |
| JAPN 4* | Intermediate Japanese (First Quarter) (5) | |
| JAPN 5* | Intermediate Japanese (Second Quarter) (5) | |
| JAPN 6* | Intermediate Japanese (Third Quarter) (5) | |
| KORE 1* | Elementary Korean (First Quarter) (5) | |
| KORE 2* | Elementary Korean (Second Quarter) (5) | |
| or KORE 2H* | Elementary Korean (Second Quarter) - HONORS (5) | |
| KORE 3* | Elementary Korean (Third Quarter) (5) | |
| or KORE 3H* | Elementary Korean (Third Quarter) - HONORS (5) | |
| MAND 1* | Elementary Mandarin (First Quarter) (5) | |
| MAND 2* | Elementary Mandarin (Second Quarter) (5) | |
| MAND 3* | Elementary Mandarin (Third Quarter) (5) | |
| MAND 4* | Intermediate Mandarin (First Quarter) (5) | |
| MAND 5* | Intermediate Mandarin (Second Quarter) (5) | |
| MAND 6* | Intermediate Mandarin (Third Quarter) (5) | |
| VIET 1* | Elementary Vietnamese (First Quarter) (5) | |
| VIET 2* | Elementary Vietnamese (Second Quarter) (5) | |
| VIET 3* | Elementary Vietnamese (Third Quarter) (5) | |
| VIET 4* | Intermediate Vietnamese (First Quarter) (5) | |
| VIET 5* | Intermediate Vietnamese (Second Quarter) (5) | |
| VIET 6* | Intermediate Vietnamese (Third Quarter) (5) | |
| WMST 22 | Asian American Pacific Islander Women (4) | |
| | **Total Units Required .............................. 20-21** | |

*A maximum of five units from a language course will apply.*

# AUTOMOTIVE TECHNICIAN

*This is 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 |
| | **Total Units Required ....................21** | |

*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

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

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

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

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

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

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

*Automotive Powertrain*

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

*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 |
| | **Total Units Required ....................22.5** | |

## Automotive Powertrain Technology
### Certificate of Achievement-Advanced
### A.S. Degree

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

*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 |
| | **Total Units Required ...............................44.5** | |

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

<u>*Engine Performance*</u>

## 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 |
| | **Total Units Required ...................................22** | |

## Intermediate Engine Performance Technology
### Certificate of Achievement

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

*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 |
| | **Total Units Required ...................................18** | |

## Advanced Engine Performance Technology
### Certificate of Achievement

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

*Program Learning Outcomes: Upon completion, students will be able to*
- Utilize the appropriate diagnostic equipment, documentation and troubleshoot principles on various automotive systems

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

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

## Advanced Engine Performance Technology
### Certificate of Achievement-Advanced
### A.S. Degree

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

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

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

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

*Engine Repair*

## 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 |
| | **Total Units Required** ...................................**18** | |

## Automotive Machining and Engine Repair Technology
### Certificate of Achievement-Advanced
### A.S. Degree
This Certificate of Achievement-Advanced and A.S. degree prepares students with advanced skills for an entry-level position in automotive engine diagnostics.

*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 |
| | **Total Units Required** ...................................**49** | |

### A.S. Degree
| *Major* | *Complete the Certificate 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** | |

*Additional Certificates*

## 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 and 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 |
| | **Total Units Required** ...............................**22.5** | |

## 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 |
| | **Total Units Required ................................18.5** | |


# AUTOMOTIVE TECHNOLOGY

***This is an entry-level program for full-time day students.***

## Automotive Chassis and Powertrain
*Certificate of Achievement-Advanced*
*A.S. Degree*
This Certificate of Achievement-Advanced and A.S. degree prepare 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

*Certificate of Achievement-Advanced*
1. Meet the requirements for this certificate level.
2. Complete the following.

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

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

*A.S. Degree*

| | | |
|---|---|---|
| Major | *Complete the Certificate of Achievement-Advanced requirements* | *49.5* |
| GE | *General Education (32-43 units)* | |
| Electives | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required ...................................90** | |

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

## Automotive Engine Performance
*Certificate of Achievement-Advanced*
*A.S. Degree*
This Certificate of Achievement-Advanced and A.S. degree prepare 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

*Certificate of Achievement-Advanced*
1. Meet the requirements for this certificate level.
2. Complete the following.

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

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

*A.S. Degree*

| | | |
|---|---|---|
| Major | *Complete the Certificate of Achievement-Advanced requirements* | *50* |
| GE | *General Education (32-43 units)* | |
| Electives | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required ...................................90** | |

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

## Automotive Machining and Engine Repair
### Certificate of Achievement-Advanced
### A.S. Degree
This Certificate of Achievement-Advanced and A.S. degree prepare 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 handling in the automotive industry

### Certificate of Achievement-Advanced
1. Meet the requirements for this certificate level.
2. Complete the following.

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

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

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

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

## AUTOMOTIVE: NONCREDIT
NEW – Noncredit
### Automotive Chassis Technology
### Certificate of Completion
Noncredit Certificates are awarded by departments and are not notated on official college transcripts. Contact the department directly for assistance and to apply.

This noncredit Certificate of Completion 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

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

| | | |
|---|---|---|
| AUTO 361A | Automotive Brake Systems | 54 hours |
| AUTO 361B | Electronically Controlled Brake Systems | 54 hours |
| AUTO 362A | Automotive Suspension, Steering and Alignment | 108 hours |
| | **Total Hours Required** ................................**216** | |

## General Service Technician
NEW – Noncredit
### Certificate of Completion
Noncredit Certificates are awarded by departments and are not notated on official college transcripts. Contact the department directly for assistance and to apply.

This noncredit Certificate of Completion 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

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

| | | |
|---|---|---|
| AUTO 350A | Introduction to Automotive Principles | 48 hours |
| AUTO 350B | Applied Automotive Principles | 48 hours |
| AUTO 351A | Introduction to Automotive Principles - Chassis Systems | 48 hours |
| AUTO 351B | Applications of Automotive Principles - Chassis Systems | 48 hours |
| AUTO 360 | Automotive Electrical Systems | 108 hours |
| | **Total Hours Required** ................................**300** | |

## Smog Technician
NEW – Noncredit
### Certificate of Completion
Noncredit Certificates are awarded by departments and are not notated on official college transcripts. Contact the department directly for assistance and to apply.

This noncredit Certificate of Completion helps prepare students as an entry-level technician 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 360C | Automotive Ignition, Fuel and Emission Systems | 108 hours |
|---|---|---|
| AUTO 365P | Smog Inspector - Level 1 Training | 84 hours |
| AUTO 365W | Smog Inspector - Level 2 Training | 30 hours |
| | **Total Hours Required**..................................**222** | |

# BIOLOGICAL SCIENCES

## Associate in Science in Biology for Transfer

### A.S.-T. Degree

The Biology major consists of courses appropriate for an Associate in Science in Biology 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 Biology for Transfer is intended for students who plan to complete a bachelor's degree in Biology (or an approved similar major) 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*
- Use the scientific process to formulate questions, design experiments to test hypotheses, interpret experimental results to draw conclusions, communicate results both orally and in writing, and critically evaluate the use of the scientific method from published sources
- Apply evolutionary theory at the molecular, cellular, organismal and population levels to explain the unity and diversity of living things

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

| **Required Core:** | | **18** |
|---|---|---|
| BIOL 6A | Form and Function in the Biological World | 6 |
| or BIOL 6AH | Form and Function in the Biological World - HONORS | |
| BIOL 6B | Cell and Molecular Biology | 6 |
| BIOL 6C | Ecology and Evolution | 6 |
| or BIOL 6CH | Ecology and Evolution - HONORS | |

**List A:**

| **Complete five courses:** | | **12-15** |
|---|---|---|
| CHEM 1A | General Chemistry | 5 |
| or CHEM 1AH | General Chemistry - HONORS | |

| CHEM 1B | General Chemistry | 5 |
|---|---|---|
| or CHEM 1BH | General Chemistry - HONORS | |
| CHEM 1C | General Chemistry and Qualitative Analysis | 5 |
| or CHEM 1CH | General Chemistry and Qualitative Analysis - HONORS | |
| MATH 1A | Calculus | 5 |
| or MATH 1AH | Calculus - HONORS | |
| MATH 1B | Calculus | 5 |
| or MATH 1BH | Calculus - HONORS | |

| **Complete one option:** | | **12-15** |
|---|---|---|
| **Option 1:** | | |
| PHYS 2A | General Introductory Physics (5) | |
| PHYS 2B | General Introductory Physics (5) | |
| PHYS 2C | General Introductory Physics (5) | |
| | | |
| **Option 2:** | | |
| PHYS 4A | Physics for Scientists and Engineers: Mechanics (6) | |
| PHYS 4B | Physics for Scientists and Engineers: Electricity and Magnetism (6) | |

| *Major* | *Biology for Transfer* | *55-58* |
|---|---|---|
| *Transfer GE* | *IGETC for STEM (52 units)* | |
| *Electives* | *CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90* | |
| | **Total Units Required** .....................................**90** | |

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

| CHEM 1C | General Chemistry and | |
| | Qualitative Analysis | 5 |
| or CHEM 1CH | General Chemistry and | |
| | Qualitative Analysis - HONORS | |

**Complete one option:**                **15-18**

**Option 1: Organic Chemistry**
| CHEM 12A | Organic Chemistry (5) |
| CHEM 12B | Organic Chemistry (5) |
| CHEM 12C | Organic Chemistry (5) |

**Option 2: Physics - General**
| PHYS 2A | General Introductory Physics (5) |
| PHYS 2B | General Introductory Physics (5) |
| PHYS 2C | General Introductory Physics (5) |

**Option 3: Physics - Engineers**
| PHYS 4A | Physics for Scientists and Engineers: Mechanics (6) |
| PHYS 4B | Physics for Scientists and Engineers: Electricity and Magnetism (6) |
| PHYS 4C | Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6) |

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

*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 consult with your counselor and the four-year institution.*

*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*

# BUSINESS ADMINISTRATION

## 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 (or an approved similar major) 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*
- Explain the interactions among the primary functions within business (such as marketing, management, operations, human resources, accounting, finance and business law) to achieve organizational goals

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

***It is highly recommended that students take BUS 10 before other major requirements.***

**Required Core:**         **23**
| ACCT 1B | Financial Accounting II | 5 |
| or ACCT 1BH | Financial Accounting II - HONORS | |
| ACCT 1C | Managerial Accounting | 5 |
| or ACCT 1CH | Managerial Accounting - HONORS | |
| BUS 18 | Business Law I | 5 |
| ECON 1 | Principles of Macroeconomics | 4 |
| or ECON 1H | Principles of Macroeconomics - HONORS | |
| ECON 2 | Principles of Microeconomics | 4 |
| or ECON 2H | Principles of Microeconomics - HONORS | |

**List A - Complete one course:**     **5**
| MATH 10 | Introductory Statistics (5) |
| or MATH 10H | Introductory Statistics - HONORS (5) |
| MATH 11 | Finite Mathematics (5) |
| or MATH 11H | Finite Mathematics - HONORS (5) |
| MATH 12 | Introductory Calculus for Business and Social Science (5) |

**List B - Complete two courses:**    **9.5**
| BUS 10 | Introduction to Business (5) |
| CIS 3 | Business Information Systems (4.5) |
| or CIS 4 | Computer Literacy (4.5) |

| *Major* | *Business Administration for Transfer* | *37.5* |
| *Transfer GE* | *CSU GE or (IGETC for CSU) (47-61 units)* | |
| *Electives* | *CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90* | |
| | **Total Units Required ...................................90** | |

▼ The Certificate of Achievement in 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 |
| or ACCT 1AH | Financial Accounting I - HONORS | |
| BUS 10 | Introduction to Business | 5 |
| BUS 18 | Business Law I | 5 |

| **Complete two courses:** | | **8-10** |
|---|---|---|
| BUS 21 | Business and Society (5) | |
| BUS 54 | Business Mathematics (5) | |
| BUS 55 | Introduction to Entrepreneurship (5) | |
| BUS 56 | Human Relations in the Workplace (5) | |
| BUS 57 | Human Resource Management (5) | |
| BUS 58 | The Business Plan (4) | |
| BUS 60 | International Business Management (5) | |
| BUS 65 | Leadership (5) | |
| BUS 70 | Principles of E-Commerce (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 the interactions among the primary functions within business (such as marketing, management, operations, human resources, accounting, finance and business law) to achieve organizational goals

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

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

*Recommended*
BUS 21, 54, 55, 57, 58, 65, 70, 85, 87, 89, 91, 94
COMM 70, 70H
ECON 1, 1H, 2, 2H
ESL 6
EWRT 1B, 1BH, 2, 2H
MATH 10, 10H

▼ The Certificate of Achievement in Business Information Worker 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 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 |
| | **Total Units Required** ................................**26.5** | |

▼ 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

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

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

| **Complete three courses:** | | **15** |
|---|---|---|
| BUS 60 | International Business Management (5) | |
| BUS 65 | Leadership (5) | |
| BUS 70 | Principles of E-Commerce (5) | |
| BUS 90 | Principles of Marketing (5) | |
| BUS 94 | Social Media Marketing Strategies (5) | |
| | **Total Units Required** .....................................**24** | |

▼ The Certificate of Achievement in Management Information Systems Support 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.

## Management Information Systems Support
### Certificate of Achievement
The Certificate of Achievement in MIS Support prepares students for employment within business as an MIS Support Specialist. Students will be introduced to the primary functions of a business, professional conduct, and concepts in software programming, business information systems and computer support. The courses incorporated in this certificate program are also transferrable toward a Bachelor of Science degree in Business Administration, with a concentration in Management Information Systems.

*Program Learning Outcomes: Upon completion, students will be able to*
- Communicate effectively with business professionals, understand fundamental programming concepts, and track computer systems problems related to a variety of technical areas, such as software applications, database management systems, web sites and computer security

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

| BUS 10 | Introduction to Business | 5 |
|---|---|---|
| BUS 56 | Human Relations in the Workplace | 5 |
| CIS 3 | Business Information Systems | 4.5 |

| **Complete one course:** | | **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** |
|---|---|---|
| BUS 70 | Principles of E-Commerce (5) | |
| BUS 94 | Social Media Marketing Strategies (5) | |
| CIS 64A | Database Management Systems (4.5) | |
| CIS 108 | Personal Computer Security Basics (4.5) | |
| | **Total Units Required** ...........................**23.5-24** | |

## CHILD DEVELOPMENT

### 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 California 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 (or an approved similar major) 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.

**Required Core:** **37**

| CD 10G | Child Development (The Early Years) *also listed as PSYC 10G* | 4 |
| CD 10H | Child Growth and Development (Middle Childhood and Adolescence) *also listed as PSYC 10H* | 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.*

| *Major* | *Early Childhood Education for Transfer* | *37* |
| *Transfer GE* | *CSU GE or (IGETC for CSU) (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** | |

# 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 |

**Complete a minimum of nine units:** **9**

| CD 10H | Child Growth and Development (Middle Childhood and Adolescence) (4) *also listed as PSYC 10H* |
| 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) | |

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

# Child Development
*Certificate of Achievement-Advanced*
This vocational training program prepares future early childhood workers and educators to work with diverse children in early childhood settings. The program includes academic instruction, job skills training, field experiences and civic and community engagement skills. Students learn to integrate developmentally appropriate practices and apply them to curriculum design for teaching young children. They also learn how to build culturally responsive partnerships with children and families. The Certificate of Achievement-Advanced is designed to meet the Child Development course requirements for a Child Development Teacher Permit. The permit also requires 24 quarter units (equivalent of 16 semester units) of General Education courses.

*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) *also listed as PSYC 10G* | 4 |
| CD 10H | Child Growth and Development (Middle Childhood and Adolescence) *also listed as PSYC 10H* | 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 |
| | **Total Units Required ...................................40** | |

# Child Development
*A.A. Degree*
The A.A. degree vocational training program prepares future early childhood workers and educators to work with diverse children in early childhood settings. The program prepares students for entry-level careers or entrance into a bachelor's degree program in Child Development studies. The degree program focuses on integrating developmentally appropriate knowledge and practice, and developing professional competencies and job skills. Students learn how to build partnerships with local, national and international resource organizations in order to advocate effectively for the needs of children and families. The degree fulfills the Child Development course requirements to qualify for the Child Development Permit Site Supervisor on the California Child Development Matrix. Students who wish to qualify as a site supervisor must also take 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)<br>*also listed as PSYC 10G* | 4 |
| CD 10H | Child Growth and Development<br>(Middle Childhood and Adolescence)<br>*also listed as PSYC 10H* | 4 |
| CD 12 | Child, Family and Community<br>Interrelationships | 4 |
| CD 50 | Principles and Practices of Teaching<br>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<br>for the Young Child | 3 |
| CD 64 | Health, Safety, and Nutrition for the<br>Young Child | 4 |
| CD 67 | Supervision and Administration of Child<br>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<br>English Learners (3) | |
| CD 58 | Infant/Toddler Development (5) | |
| CD 59G | Supervision and Administration of<br>Child Development Programs<br>(Management Systems) (4) | |
| CD 59H | Supervision and Administration of<br>Child Development Programs<br>(Leadership Skills) (4) | |
| CD 60 | Introduction to Children with Special Needs (3) | |
| CD 61 | Music and Movement<br>(Developmental Foundations) (3) | |
| CD 63 | Math and Science Activities for the<br>Young Child (3) | |
| CD 71 | Constructive Guidance and Positive<br>Discipline in Early Childhood (3) | |
| CD 72 | Partnerships with Families in Early<br>Childhood Education (3) | |
| CD 73 | Early Childhood Mental Health (3) | |
| CD 74 | Early Childhood Mental Health Seminar<br>and Fieldwork (3) | |
| CD 75 | Social Emotional Development in<br>Early Childhood (3) | |
| EDUC 1 | Introduction to Elementary Education in a<br>Diverse Society (3) | |

**Practicum Requirement:** **10**

| | | |
|---|---|---|
| CD 51A<br> or CD 57 | Basic Student Teaching Practicum (5)<br>Self-Assessment for Teachers of<br>Young Children Using Reflective Practice:<br>Field Experience (5) | |
| CD 51B | Advanced Student Teaching Practicum (5) | |

| | | |
|---|---|---|
| *Major* | *Child Development* | *51* |
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units<br>plus GE units total is less than 90* | |
| | **Total Units Required ....................................90** | |

80

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

## Early Intervention/Special Education Assistant
*Certificate of Achievement-Advanced*
This vocational training program prepares future early childhood workers and educators to work with children with disabilities and special needs in public and private early intervention, special education and educational settings that serve typical and atypical developing young children and their families. Students are taught practical skills in early intervention and early childhood special education from a culturally responsive perspective. Students learn to integrate early intervention/special education practices and apply them to teaching young children with special needs. Certificate requirements include student participation in field experiences with community-

based, inclusive educational programs. The Certificate of Achievement-Advancement prepares students for two career paths: early intervention assistant and early childhood teacher. It is the equivalent of the Teacher level permit on the California Child Development Matrix. The Teacher level permit also requires 24 quarter units (equivalent of 16 semester units) of General Education courses.

*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) | 4 |
| | *also listed as PSYC 10G* | |
| 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) *also listed as PSYC 10H* | |
| 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 |
| | **Total Units Required ....................................45** | |

## Trauma Informed Care
### *Skills Certificate*
Skills Certificates are awarded by departments and are not notated on official college transcripts. Contact the department directly for assistance and to apply.

De Anza College's Child Development and Education developed the Trauma Informed Care Skills Certificate to train early childhood practitioners working in early education and in Family, Friends and Neighbors programs. Certificate requirements include student participation in field experiences with community based programs. Students develop skills to work with both children and families who have experienced trauma. The Skills Certificate is designed to meet Child Development course requirements for a Child Development Master Teacher as specialization units. The Child Development Master Teacher permit requires 36 quarter units (equivalent to 24 semester units) in Early Childhood Education/Child Development including core courses. The certificate is also aligned with the Infant-Family and Early Childhood Mental Health professional endorsement: Reflective Practice Facilitator I and Transdisciplinary Infant-Family and Early Childhood Mental Health Practitioner.

*Program Learning Outcomes: Upon completion, students will be able to*
- Increase knowledge of trauma in Early Childhood Education, understand the key universal trauma-informed strategies and apply strategies in a wide range of early childhood settings

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

| | | |
|---|---|---|
| CD 10G | Child Development (The Early Years) | 4 |
| | *also listed as PSYC 10G* | |
| CD 75 | Social Emotional Development in Early Childhood | 3 |
| CD 76 | Trauma and Early Childhood Development | 4.5 |
| CD 79 | Implementation of Trauma Informed Care and Field Experience | 4.5 |
| | **Total Units Required ...................................16** | |

## COMMUNICATION STUDIES

### 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 (or an approved similar major) 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.

**Required Core - 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)

**List A - Complete two courses:** 10
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)

**List B - Complete two courses below or**
**from List A (not already taken):** 8-9
COMM 7       Intercultural Communication (4)
           *also listed as ICS 7*
 or COMM 7H    Intercultural Communication - HONORS (4)
           *also listed as ICS 7H*
JOUR 2       Media and Its Impact on Society (4)

**List C - Complete one course below or**
**from List A or List B (not already taken):** 4-5
COMM 70*     Effective Organizational Communication (5)
 or COMM 70H* Effective Organizational
           Communication - HONORS (5)

*Students under the minimum 27 units for a major, must complete all the courses in Lists A, B and C.*

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

| Major | Communication Studies for Transfer | 28-29 |
|---|---|---|
| Transfer GE | CSU GE or (IGETC for CSU) (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**

# 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 9-10 units (not already taken): 9-10**
COMM 1       Public Speaking (5)
 or COMM 1H    Public Speaking - HONORS (5)
COMM 7       Intercultural Communication (4)
           *also listed as ICS 7*
 or COMM 7H    Intercultural Communication - HONORS (4)
           *also listed as ICS 7H*
COMM 8       Argumentation and Critical Inquiry in
           Oral Communication (5)
 or COMM 8H    Argumentation and Critical Inquiry in
           Oral Communication - HONORS (5)
COMM 9*      Argumentation: Analysis of Oral and
           Written Communication (5)
 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        Media and Its Impact on Society (4)
              **Total Units Required .............................. 19-20**

*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:**                                  **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)

**Complete five courses:**                                **23**
COMM 7        Intercultural Communication (4)
              *also listed as ICS 7*
 or COMM 7H   Intercultural Communication - HONORS (4)
              *also listed as ICS 7H*
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        Media and Its Impact on Society (4)

**Specialty Area Coursework:**                            **12**

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

*Major        Communication Studies              45*
*GE           General Education (32-43 units)*
*Electives    Elective courses required when major
              units plus GE units total is less than 90*
              **Total Units Required ...................................90**

## 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 (or an approved
similar major) 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.

| Required Core: | | 36.5 |
|---|---|---|
| CIS 21JA | Introduction to x86 Processor Assembly Language and Computer Architecture | 4.5 |
| MATH 1A | Calculus | 5 |
| or MATH 1AH | Calculus - HONORS | |
| MATH 1B | Calculus | 5 |
| or MATH 1BH | Calculus - HONORS | |
| MATH 1C | Calculus | 5 |
| or MATH 1CH | Calculus - HONORS | |
| 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 |

| Required Core - 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 Structures (4.5) | |
| or CIS 22CH | Data Abstraction and Structures - HONORS (4.5) | |

| **Option 2:** | | |
|---|---|---|
| CIS 22C | Data Abstraction and Structures (4.5) | |
| or CIS 22CH | Data Abstraction and Structures - HONORS (4.5) | |
| CIS 35A | Java Programming (4.5) | |

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

# Database Development Practitioner
## *Certificate of Achievement*
The Database Development Practitioner Certificate of Achievement includes database management system fundamentals, SQL, PL/SQL, large scale data processing and big data and analytics. Students become proficient in organizing essential information and abstract relationships into a database. They also learn to update, maintain and repair databases. 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 |
| or CIS 22BH | Intermediate Programming Methodologies in C++ - HONORS | |

| 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 | Fundamentals of Large Scale Cloud Computing (4) | |
| CIS 64F | Introduction to Big Data and Analytics (4) | |
| | **Total Units Required ........................ 24.5-26.5** | |

# Database Development Practitioner
## *Certificate of Achievement-Advanced*
## *A.A. Degree*

NEW

The Certificate of Achievement-Advanced and A.A. degree prepare students for an entry-level position in the database field to work as a data analyst, business analyst, database project coordinator or database engineer.

*Program Learning Outcomes: Upon completion, students will be able to*
- Demonstrate requirement analysis, design and coding skills in languages commonly used in data management with large scale databases
- Apply skills for business analysis to convert data into information in real time, allowing business owners to make effective just-in-time decisions

### Certificate of Achievement-Advanced
1. Meet the requirements for this certificate level.
2. Complete the following.

| Complete one option: | | 9 |
|---|---|---|

**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) | |

**Option 2:**

| CIS 36A | Introduction to Computer Programming Using Java (4.5) | |
| CIS 36B | Intermediate Problem Solving in Java (4.5) | |

**Option 3:**

| CIS 41A | Python Programming (4.5) | |
| CIS 41B | Advanced Python Programming (4.5) | |

| Complete four courses: | | 17-17.5 |
|---|---|---|
| CIS 64A | Database Management Systems (4.5) | |
| CIS 64B | Introduction to SQL (4.5) | |
| CIS 64C | Introduction to PL/SQL (4.5) | |
| CIS 64E | Fundamentals of Large Scale Cloud Computing (4) | |
| CIS 64F | Introduction to Big Data and Analytics (4) | |

| Complete two courses: | | 9 |
|---|---|---|
| CIS 9 | Introduction to Data Science (4.5) | |
| CIS 64G | Data Visualization Methodology and Tools (4.5) | |
| CIS 64H | R Programming (4.5) | |

| Complete two courses: | | 9 |
|---|---|---|
| CIS 18A | Introduction to Unix/Linux (4.5) | |
| CIS 18B | Advanced Unix/Linux (4.5) | |
| | **Total Units Required** | **44-44.5** |

### A.A. Degree

| *Major* | *Database Development Practitioner* | *44-44.5* |
|---|---|---|
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required** | **90** |

<u>*Enterprise Security*</u>

# 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.

| Prerequisite/Corequisite: | | 4.5 |
|---|---|---|
| CIS 108 | Personal Computer Security Basics | 4.5 |

| Requirements: | | 13.5 |
|---|---|---|
| CIS 18A | Introduction to Unix/Linux | 4.5 |
| CIS 56 | Network Security | 4.5 |
| CIS 102 | Ethical Hacking | 4.5 |

| Complete one course: | | 5 |
|---|---|---|
| CIS 66* | Introduction to Data Communication and Networking (5) | |
| CIS 75A* | Internet Concepts and TCP/IP Protocols (5) | |
| | **Total Units Required, Including Prerequisite** | **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.

| Prerequisite/Corequisite: | | 4.5 |
|---|---|---|
| CIS 108 | Personal Computer Security Basics | 4.5 |

| Requirements: | | 18 |
|---|---|---|
| CIS 18A | Introduction to Unix/Linux | 4.5 |
| CIS 56 | Network Security | 4.5 |

| CIS 102 | Ethical Hacking | 4.5 |
| CIS 170F | Windows Administration | 4.5 |

**Complete one course:** **5**

| CIS 66* | Introduction to Data Communication and Networking (5) | |
| CIS 75A* | Internet Concepts and TCP/IP Protocols (5) | |

**Complete one course:** **4.5**

| CIS 104 | Digital Forensics and Hacking Investigation (4.5) | |
| CIS 105 | Cloud Security Fundamentals (4.5) | |
| | **Total Units Required, Including Prerequisite**.................................**32** | |

*\*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 Certificate 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* | |
| | **Total Units Required** ...................................**90** | |

# 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 |
| | **Total Units Required** ................................**22.5** | |

# 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 |
| or CIS 22BH | Intermediate Programming Methodologies in C++ - HONORS | |
| CIS 66 | Introduction to Data Communication and Networking | 5 |
| CIS 67A | Local Area Networks | 4 |
| CIS 67B | Introduction to Wide Area Networking | 4 |
| CIS 75A | Internet Concepts and TCP/IP Protocols | 5 |

| Complete one course: | | 4.5 |
|---|---|---|
| CIS 18B | Advanced Unix/Linux (4.5) | |
| CIS 33A | Programming in Perl (4.5) | |

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

### A.A. Degree
| | | |
|---|---|---|
| Major | Complete the Certificate of Achievement-Advanced requirements | 40.5-41 |
| GE | General Education (32-43 units) | |
| Electives | Elective courses required when major units plus GE units total is less than 90 | |
| | **Total Units Required** ...................................90 | |

Check with the CIS department about the recommended sequence for completing the above courses.

*Programming/Network Programming*

## Business Programming
**Certificate of Achievement-Advanced**
**A.A. Degree**
The Business Programming Certificate of Achievement-Advanced and A.A. degree 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. These 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 |
| or ACCT 1AH | Financial Accounting I - HONORS | |
| BUS 10 | Introduction to Business | 5 |
| CIS 14A | Visual Basic .NET Programming I | 4.5 |
| CIS 22A | Beginning Programming Methodologies in C++ | 4.5 |
| CIS 22B | Intermediate Programming Methodologies in C++ | 4.5 |
| or CIS 22BH | Intermediate Programming Methodologies in C++ - HONORS | |
| CIS 28 | Object Orientated Analysis and Design | 4.5 |
| CIS 64A | Database Management Systems | 4.5 |

| Complete one course: | | 3-4.5 |
|---|---|---|
| CIS 56 | Network Security (4.5) | |
| CIS 75D | Enterprise Security Policy Management (3) | |

| Complete one course: | | 4.5 |
|---|---|---|
| CIS 22C | Data Abstraction and Structures (4.5) | |
| or CIS 22CH | Data Abstraction and Structures - HONORS (4.5) | |
| CIS 29 | Advanced C++ Programming (4.5) | |
| CIS 63 | Systems Design (4.5) | |

| Complete one course: | | 4-5 |
|---|---|---|
| CIS 3 | Business Information Systems (4.5) | |
| CIS 67A | Local Area Networks (4) | |
| CIS 95A | Project Management - A Practicum (5) | |
| CIS 95F | Managing Cloud Projects (4) | |
| | **Total Units Required** ........................... 44-46.5 | |

### A.A. Degree
| | | |
|---|---|---|
| Major | Complete the Certificate of Achievement-Advanced requirements | 44-46.5 |
| GE | General Education (32-43 units) | |
| Electives | Elective courses required when major units plus GE units total is less than 90 | |
| | **Total Units Required** ...................................90 | |

Check with the CIS department about the recommended sequence for completing the above courses.

▼ The Certificate of Achievement in Network Basics can be earned by taking all required courses online. Some online courses may require on-campus participation in meetings, class events or exams, as detailed in the 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 |
| | **Total Units Required** ................................18.5 | |

# 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 |
| or CIS 22BH | Intermediate Programming Methodologies in C++ - HONORS | |
| CIS 22C | Data Abstraction and Structures | 4.5 |
| or CIS 22CH | Data Abstraction and Structures - HONORS | |
| CIS 26B | Advanced C Programming | 4.5 |
| or CIS 26BH | Advanced C Programming - HONORS | |
| 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) | |
| | **Total Units Required .......................... 40.5-42** | |

*A.A. Degree*

| | | |
|---|---|---|
| *Major* | *Complete the Certificate of Achievement-Advanced requirements* | *40.5-42* |
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required ......................... 90 units** | |

*Check with the CIS department about the recommended sequence for completing the above courses.*

# Programming in C/C++
*Certificate of Achievement*

The C/C++ Certificate of Achievement prepares students for entry-level employment in computer programming, software testing and integration, software analysis or algorithm design. The curriculum offers students an introduction to programming in C, intermediate problem solving in C and advanced C/C++ programming and design. The Certificate of Achievement also provides a solid foundation and skill set for those interested in pursuing further study towards a Certificate of Achievement-Advanced or A.A. degree in Systems Programming or Business Programming.

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

| Complete one course: | | 4.5 |
|---|---|---|
| CIS 26B | Advanced C Programming (4.5) | |
| or CIS 26BH | Advanced C Programming - HONORS (4.5) | |
| CIS 29 | Advanced C++ Programming (4.5) | |
| | **Total Units Required ................................... 18** | |

# Programming in Java
*Certificate of Achievement*

This Certificate of Achievement gives students the knowledge and skills necessary to develop 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 |
| or CIS 22BH | Intermediate Programming Methodologies in C++ - HONORS | |
| CIS 35A | Java Programming | 4.5 |
| CIS 35B | Advanced Java Programming | 4.5 |
| CIS 53 | Java for Mobile Development | 4.5 |
| | **Total Units Required** ...............................**22.5** | |

# Programming in Perl
### Certificate of Achievement
The Programming in Perl Certificate of Achievement certifies that the student can create Perl programs. Perl is a continuously developing language, designed for practical management of important server systems. Perl programming is a key skill used in server processing, web host processing and integrating multiple subsystems. Students develop basic knowledge of Perl, which enables them to match interfaces of web protocol subsystems, the operating system and database subsystems.

*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 |
| or CIS 22BH | Intermediate Programming Methodologies in C++ - HONORS | |
| CIS 33A | Programming in Perl | 4.5 |
| CIS 33B | Advanced Perl Programming | 4.5 |
| | **Total Units Required** ...............................**22.5** | |

# 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 9 | Introduction to Data Science (4.5) | |
| CIS 22B | Intermediate Programming Methodologies in C++ (4.5) | |
| or CIS 22BH | Intermediate Programming Methodologies in C++ - HONORS (4.5) | |
| CIS 26A | C as a Second Programming Language (4.5) | |
| CIS 27 | Programming in C++ for C/Java Programmers (4.5) | |
| CIS 35A | Java Programming (4.5) | |
| CIS 36B | Intermediate Problem Solving in Java (4.5) | |
| CIS 64B | Introduction to SQL (4.5) | |
| CIS 66 | Introduction to Data Communication and Networking (5) | |
| | **Total Units Required** ........................... **18-18.5** | |

# Systems Programming
### Certificate of Achievement-Advanced
### A.A. Degree
Students pursuing the Systems Programming Certificate of Achievement-Advanced or A.A. degree learn computer programming fundamentals of both low-level and high-level languages and gain computing experience on both Windows and Linux platforms.

*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 |
| or CIS 22BH | Intermediate Programming Methodologies in C++ - HONORS | |
| CIS 22C | Data Abstraction and Structures | 4.5 |
| or CIS 22CH | Data Abstraction and Structures - HONORS | |
| CIS 26B | Advanced C Programming | 4.5 |
| or CIS 26BH | Advanced C Programming - HONORS | |
| 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 21JB | Advanced x86 Processor Assembly Programming (4.5) | |
| CIS 28 | Object Oriented Analysis and Design (4.5) | |
| CIS 35A | Java Programming (4.5) | |
| CIS 66 | Introduction to Data Communication and Networking (5) | |
| CIS 95F | Managing Cloud Projects (4) | |
| | **Total Units Required ........................ 40.5-41.5** | |

### *A.A. Degree*
| | | |
|---|---|---|
| *Major* | *Complete the Certificate of Achievement-Advanced requirements* | *40.5-41.5* |
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required ...................................90** | |

*Check with the CIS department about the recommended sequence for completing the above courses.*

## UNIX/LINUX Operating System
### *Certificate of Achievement*
Students pursuing the UNIX/LINUX Operating System Certificate of Achievement learn the fundamentals of the UNIX/LINUX OS, ranging from text file manipulation, job control and communication to implementation of shell scripts to automate tasks.

*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 | Bash Scripting | 4.5 |
| CIS 22A | Beginning Programming Methodologies in C++ | 4.5 |
| CIS 22B | Intermediate Programming Methodologies in C++ | 4.5 |
| or CIS 22BH | Intermediate Programming Methodologies in C++ - HONORS | |
| | **Total Units Required ................................22.5** | |

## Visual Basic Programming
### *Certificate of Achievement*
The Visual Basic Certificate of Achievement prepares students for entry-level positions such as Visual Basic developer, .NET developer and web database developer. Additionally, students will enhance their skills in working with spreadsheets and databases. 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.

| | | |
|---|---|---|
| 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 |
| CIS 64A | Database Management Systems | 4.5 |
| | **Total Units Required ....................................18** | |

## 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 5 | Swift Programming (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: | | 16.5-18 |
|---|---|---|
| CIS 18A | Introduction to Unix/Linux (4.5) | |
| CIS 55 | iOS Development (4.5) | |
| CIS 57 | Web Site Administration (4.5) | |
| CIS 89A | Web Page Development (4.5) | |
| CIS 89C | Client-Side Programming with JavaScript (4.5) | |
| CIS 89D | Rich Internet Application Development (4.5) | |
| CIS 97 | FLASH Animation (3) | |
| CIS 98 | Digital Image Editing Software (Photoshop) (4.5) | |
| | **Total Units Required** ........................... | **21-22.5** |

# DESIGN AND MANUFACTURING TECHNOLOGIES

## Computer Aided Design – Mechanical
### *Certificate of Achievement*
Students pursuing De Anza College's Computer Aided Design - Mechanical Certificate of Achievement will receive 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 or International Standards Organization (ISO) specifications
- Satisfy a prospective employer with quality technical expertise in the use of two CAD tools (SolidWorks and Creo) at a level commensurate with entry- to mid-level usage in industry design and engineering

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

| DMT 52 | Geometric Dimensioning and Tolerancing: CAD Applications | 2 |
|---|---|---|

| **Complete one course from the series:** | | **4** |
|---|---|---|
| DMT 60A - 60E series | | |
| | SolidWorks (Introduction) (4) | |

| **Complete one course from the series:** | | **4** |
|---|---|---|
| DMT 61A - 61E series | | |
| | SolidWorks (Intermediate) (4) | |

| **Complete one course from the series:** | | **4** |
|---|---|---|
| DMT 65A - 65E series | | |
| | Creo Parametric (Introduction) (4) | |

| **Complete one course from the series:** | | **4** |
|---|---|---|
| DMT 66A - 66E series | | |
| | Creo Parametric (Intermediate) (4) | |
| | **Total Units Required** ................................... | **18** |

## CNC Machinist
### *Certificate of Achievement*
The Computer Numerical Control (CNC) Machinist Certificate of Achievement teaches students the fundamentals of conventional and CNC machine tools. Students learn how to set up safely and operate manual mills and lathes and construct word address programs for the 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 CNC Programming and Operation; Mill | 5 |
| DMT 84B | CNC Programming and Operation; Intermediate Mill | 5 |
| DMT 90 | Print Reading and Machine Shop Calculations | 4.5 |
| | **Total Units Required** ................................. | **19.5** |

## CNC Machinist
### *Certificate of Achievement-Advanced*
### *A.S. Degree*
The CNC Machinist Certificate of Achievement-Advanced and A.S. degree teaches students the fundamentals of CNC machine tools. Students learn safe 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 CNC Programming and Operation; Mill | 5 |
| DMT 84B | CNC Programming and Operation; Intermediate Mill | 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 GD&T (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 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) | |

**Total Units Required .............................54.5**

### *A.S. Degree*
| | | |
|---|---|---|
| Major | *Complete the Certificate of Achievement-Advanced requirements* | 54.5 |
| GE | *General Education (32-43 units)* | |
| Electives | *Elective courses required when major units plus GE units total is less than 90* | |

**Total Units Required ...................................90**

## CNC Programming – CAD/CAM
### *Certificate of Achievement*
The CNC Programming - CAD/CAM Certificate of Achievement teaches students 2D, 3D, lathe and multi-axis machine tool programming. Students learn to construct geometry, select tools and produce and verify tool paths. Upon completion, students are prepared for employment as entry-level programmers in prototype and production manufacturing facilities. This certificate is part of a career ladder. Students may also choose to complete a Certificate of Achievement-Advanced or A.S. degree in CNC Machinist.

*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 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 | Advanced Conventional Machine Tools, Tool Design, Abrasive Machining | 5 |
| DMT 84A | Introduction to CNC Programming and Operation; Mill | 5 |
| DMT 84B | CNC Programming and Operation; Intermediate Mill | 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 GD&T (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 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 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 Certificate 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 CNC Programming and Operation; Mill | 5 |
| DMT 84B | CNC Programming and Operation; Intermediate Mill | 5 |
| DMT 95 | Manufacturing Materials and Processes | 4 |

**Complete one course from either series:** 4
DMT 60A - 60E series
SolidWorks (Introduction) (4)
DMT 65A - 65E series
Creo Parametric (Introduction) (4)

**Complete one course from the series:** 5
DMT 87D - 87E series
CAD/CAM 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 Certificate 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

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

| | | |
|---|---|---|
| DMT 80 | Introduction to Machining and CNC Processes | 5 |
| DMT 90 | Print Reading and Machine Shop Calculations | 4.5 |
| DMT 91 | Dimensional Metrology | 4.5 |
| DMT 92 | Applied GD&T (ASME Y14.5m); Coordinate Measuring Machines (CMM) | 4 |
| DMT 93 | Introduction to Quality Assurance | 4 |
| | **Total Units Required ................................... 22** | |

## 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 (or an approved similar major) 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

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

| | | |
|---|---|---|
| **Required Core:** | | **13** |
| ECON 1 | Principles of Macroeconomics | 4 |
|   or ECON 1H | Principles of Macroeconomics - HONORS | |
| ECON 2 | Principles of Microeconomics | 4 |
|   or ECON 2H | Principles of Microeconomics - HONORS | |
| MATH 10 | Introductory Statistics | 5 |
|   or MATH 10H | Introductory Statistics - HONORS | |

| | | |
|---|---|---|
| **Required Core - Complete one option:** | | **5-10** |
| **Option 1:** | | |
| MATH 1A | Calculus (5) | |
|   or MATH 1AH | Calculus - HONORS (5) | |
| MATH 1B | Calculus (5) | |
|   or MATH 1BH | Calculus - HONORS (5) | |

| | | |
|---|---|---|
| **Option 2:** | | |
| MATH 12 | Introductory Calculus for Business and Social Science (5) | |

**List A - Complete one option:**                                    5-10
**Option 1:**
ACCT 1A          Financial Accounting I (5)
 or ACCT 1AH     Financial Accounting I - HONORS (5)
ACCT 1B          Financial Accounting II (5)
 or ACCT 1BH     Financial Accounting II - HONORS (5)


**Option 2:**
ACCT 1C          Managerial Accounting (5)
 or ACCT 1CH     Managerial Accounting - HONORS (5)


**Option 3:**
MATH 1B          Calculus (5)
 or MATH 1BH     Calculus - HONORS (5)
MATH 1C          Calculus (5)
 or MATH 1CH     Calculus - HONORS (5)


**Option 4:**
MATH 11          Finite Mathematics (5)


**List B - Complete four-10 units below or**
**from List A (not already taken):**                                4-10
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) (47-61 units)*
*Electives*       *CSU-transferrable elective courses required*
                  *when the major units plus transfer GE units*
                  *total is less than 90*
                  **Total Units Required ....................................90**



# ENGLISH

## 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 (or an
approved similar major) 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.


**Required Core - 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)


**List A - Complete two groups:**                                 12-16
**Group 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)


**Group 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)


**Group 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)

**Group 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) | |

**List B - Complete one course if Required Core - Option 1 is selected or two courses if Required Core - Option 2 is selected:** **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) |

**List C - Complete one course below or from List A or B (not already taken):** **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 ASAM 20* |
| ELIT 28 | Young Adult Literature (4) |
| 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) (47-61 units)* | |
| *Electives* | *CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90* | |
| | **Total Units Required ...................................90** | |

# English
### *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:** **5**

| | |
|---|---|
| EWRT 1A | Composition and Reading (5) |
| or EWRT 1AH | Composition and Reading - HONORS (5) |
| or EWRT 1AT | Intensive Composition and Reading Stretch: Second Quarter (5) |

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

**Complete one course:** **5**

| | |
|---|---|
| EWRT 1B | Reading, Writing and Research (5) |
| or EWRT 1BH | Reading, Writing and Research - HONORS (5) |
| EWRT 2 | Critical Reading, Writing and Thinking (5) |
| or EWRT 2H | Critical Reading, Writing and Thinking - HONORS (5) |

**Complete three courses:** **12**

| | |
|---|---|
| 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) |

**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 ASAM 20* |
| 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 ASAM 20* |
| ELIT 28 | Young Adult Literature (4) |
| 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) | |

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

# ENVIRONMENTAL STUDIES

## Energy Management and Building Science
### *Certificate of Achievement*

The Certificate of Achievement in 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 | Climate Change Mitigation and Adaptation in California | 4 |
| 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 |
| | **Total Units Required ................................. 21** | |

# Energy Management and Building Science
## *Certificate of Achievement-Advanced*

The Certificate of Achievement-Advanced in 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.    21
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 |
| | **Total Units Required** ....................................**34** | |

# Energy Management and Building Science
## *A.S. Degree*

The A.S. degree in Energy Management and Building Science will prepare students for new and emerging career opportunities in energy management technology, building energy audit, facilities management, building design and sustainability and renewable energy systems. Completion of the degree program provides students with a skilled knowledge of energy efficiency principles and prepares them for careers in managing and monitoring energy efficient buildings. The program curriculum is aligned with professional certifications offered by the International Facilities Management Association (IFMA), including Facilities Management Professional (FMP) and Sustainable Facilities Professional (SFP). Students will also be well prepared for the certification test for Renewable (Solar) Energy Professional offered by the North American Board of Certified Energy Practitioners (NABCEP).

*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

1. Complete the Certificate of Achievement and the Certificate of Achievement-Advanced requirements.    34
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 (4) | |
| 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 84 | Residential Solar Design and Installation (1) | |
| ES 95 | Introduction to Environmental Careers (1) | |
| ESCI 1 | Environmental Science (4) | |
| MATH 109 | Intermediate Algebra for Statistics (5) | |
| or MATH 114 | College Math Preparation Level 3: Intermediate Algebra (5) | |
| or MATH 130 | Intermediate Algebra for Precalculus (5) | |
| MET 10 | Weather and Climate Processes (5) | |
| PHYS 10 | Concepts of Physics (5) | |

| | | |
|---|---|---|
| *Major* | *Energy Management and Building Science* | *52* |
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required** ....................................**90** | |

▼ The Certificate of Achievement in Environmental Resource Management and Pollution Prevention 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.

# 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, on which 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 | 4 |
| 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:** | | **8** |
| ES 62A | Environmental Management Tools: Environmental Management Systems and Environmental Performance Reporting (4) | |
| 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) | |
| | **Total Units Required ...................20** | |

▼ The Certificate of Achievement-Advanced in Environmental Resource Management and Pollution Prevention 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.

# 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. 20
2. Meet the requirements for this certificate level.
3. Complete the following.

| ES 64 | Climate Change Mitigation and Adaptation in California | 4 |

| **Complete two courses not previously completed for the Certificate of Achievement:** | | **8** |
| ES 62A | Environmental Management Tools: Environmental Management Systems and Environmental Performance Reporting (4) | |
| 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) | |
| | **Total Units Required ...................32** | |

# 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.    32
2. Meet the A.A./A.S. degree requirements.
3. Complete the following.

| ES 1 | Introduction to Environmental Studies | 4 |
|---|---|---|
| ES 4 | Energy, the Environment, and Society | 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 | Global Environmental Policy | 1 |
| ES 95 | Introduction to Environmental Careers | 1 |
| ESCI 1 | Environmental Science | 4 |
| ESCI 1L | Environmental Science Laboratory | 1 |

| *Major* | *Environmental Resource Management and Pollution Prevention* | *57* |
|---|---|---|
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required ...................................90** | |

# Facility and Sustainable Building Management
***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% 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 65 | Leadership | 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 |
| | **Total Units Required ...................................22** | |

***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.    22
2. Meet the requirements for this certificate level.
3. Complete the following.

| ACCT 1A or ACCT 1AH | Financial Accounting I Financial Accounting I - HONORS 5 | 5 |
|---|---|---|
| BUS 10 | Introduction to Business | 5 |
| ES 81 | Leadership in Energy and Environmental Design/Sustainability Codes | 2 |
| ES 83 | Energy Management Return on Investment | 2 |
| | **Total Units Required ...................................36** | |

***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.    36
2. Meet the A.A./A.S. degree requirements.
3. Complete the following.

| **Complete 14 units:** | | **14** |
|---|---|---|
| ACCT 88 | Excel Spreadsheets for Accounting (2) | |
| ACCT 105 | Basic Financial Accounting Procedures (1) | |
| BUS 96 | Principles of Management (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 51B | Energy Efficient Buildings (3) |
| ES 51C | Building Automation Systems (2) |
| ES 62A | Environmental Management Tools: Environmental Management Systems and Environmental Performance Reporting (4) |
| ES 64 | Climate Change Mitigation and Adaptation in California (4) |
| ES 69 | Energy Management Within Your Organization (1) |
| REST 50 | Real Estate Principles (4) |
| REST 53 | Real Estate Finance (4) |

| *Major* | *Facility and Sustainable Building Management* | *50* |
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required** ....................................**90** | |

# FILM/TV

## Associate in Science in Film, Television, and Electronic Media for Transfer

### *A.S.-T. Degree*

The Film, Television, and Electronic Media major consists of courses appropriate for an Associate in Science in Film, Television, and Electronic Media 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 Film, Television, and Electronic Media for Transfer is intended for students who plan to complete a bachelor's degree in Film, Television, and Electronic Media (or an approved similar major) 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 media literacy as a key part of the development of critical thinking skills
- Analyze film, television and electronic media through the application of diverse critical approaches and within the context of technology, business, cultural production, entertainment medium and art form
- Describe and analyze the history, issues and impact of film, television and electronic media in a global context
- Demonstrate preproduction skills in the design and creation of content for film, television and electronic media with a focus on screenwriting, location scouting, casting, scheduling and budgeting

- Demonstrate basic operational and craft skills for film, television and electronic media production and postproduction technologies and workflow
- Demonstrate professionalism and understanding of workforce protocol in communication and behavior

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

| **Required Core:** | | **12** |
| F/TV 1 | Introduction to Cinematic Arts | 4 |
| or F/TV 1H | Introduction to Cinematic Arts - HONORS | |
| F/TV 6A | Screenwriting Fundamentals for Film/Video I | 4 |
| F/TV 10 | Introduction to Electronic Media | 4 |
| or F/TV 10H | Introduction to Electronic Media - HONORS | |

| **List A - Complete each area:** | | **10** |
| **Area 1: Audio - Complete two courses:** | | |
| F/TV 30 | Location Recording and Sound Design | 3 |
| F/TV 31 | Audio Post Production | 3 |

| **Area 2: Video or Film Production - Complete one course:** | | |
| F/TV 20 | Beginning Video Production (4) | |
| F/TV 22 | Beginning 16mm Motion Picture Production (4) | |
| F/TV 23 | Beginning TV Studio Production (4) | |

| **List B - Complete one course below or from List A (not already taken):** | | **4-4.5** |
| F/TV 2A | History of Cinema (1895-1950) (4) | |
| or F/TV 2AH | History of Cinema (1895-1950) - HONORS (4) | |
| or 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) | |
| or 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) | |
| or F/TV 2CW | Contemporary World Cinema (4.5) | |
| or F/TV 2CWH | Contemporary World Cinema - HONORS (4.5) | |

| **List C - Complete one course below or from List A or B (not already taken):** | | **1-4** |
| F/TV 26 | Introduction to Film/Television Directing (4) | |
| F/TV 27 | Nonlinear Editing (4) | |
| F/TV 29 | Lighting for Film and Television (4) | |
| 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 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 66A | Basic Techniques of Animation: Stop Motion (3) |
| F/TV 67A | Principles of Animation: 2D Media (4) |
| F/TV 68A | Sound for Animation (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 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 75G | History of Animation (1900-Present) (4) |
| F/TV 75K | Japanese Animation (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) |

| *Major* | *Film, Television, and Electronic Media for Transfer* | *27-30.5* |
|---|---|---|
| *Transfer GE* | *CSU GE or (IGETC for CSU) (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** | |

# 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 20 | Beginning Video Production | 4 |
| F/TV 66A | Basic Techniques of Animation: Stop Motion | 3 |
| F/TV 67A | Principles of Animation: 2D Media | 4 |
| F/TV 68A | Sound for Animation | 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 one course:** | | **3-4** |
|---|---|---|
| ARTS 54 | Introduction to Graphic Design: Digital Imaging (4) | |
| PHTG 58A | Photographic Photoshop I (3) | |

| **Complete one course:** | | **4** |
|---|---|---|
| F/TV 6A | Screenwriting Fundamentals for Film/Video I (4) | |
| F/TV 72G | Animated Film Pre-Production Workshop (4) | |

| **Complete a minimum of four units below or from above (not already taken):** | | **4** |
|---|---|---|
| ARTS 8 | Two-Dimensional Design (4) | |
| ARTS 10A | Three-Dimensional Design (4) | |
| ARTS 12 | Design and Color (4) | |
| ARTS 15A | Acrylic Painting I (4) | |
| ARTS 16A | Oil Painting I (4) | |
| ARTS 85 | Graphic Design: Motion Graphics (4) | |
| F/TV 1 | Introduction to Cinematic Arts (4) | |
| or F/TV 1H | Introduction to Cinematic Arts - HONORS (4) | |
| F/TV 2A | History of Cinema (1895-1950) (4) | |
| 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 27 | Nonlinear Editing (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 56A | Introduction to Visual Effects and Color Grading (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)
THEA 80A        Theory and Technique of Acting
                for the Camera (4)

*Major*          *Film/TV: Animation*              *48-49*
*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**

## 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 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

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

| F/TV 1 | Introduction to Cinematic Arts | 4 |
| or F/TV 1H | Introduction to Cinematic Arts - HONORS | |
| F/TV 6A | Screenwriting Fundamentals for Film/Video I | 4 |
| F/TV 10 | Introduction to Electronic Media | 4 |
| or F/TV 10H | Introduction to Electronic Media - HONORS | |
| F/TV 20 | Beginning Video Production | 4 |
| F/TV 27 | Nonlinear Editing | 4 |

**Complete one course:** **4**
| F/TV 22 | Beginning 16mm Motion Picture Production (4) |
| F/TV 23 | Beginning TV Studio Production (4) |
| F/TV 39 | Intermediate Digital Film and Video Production (4) |
| | **Total Units Required ....................................24** |

## Film/TV: Production
### *Certificate of Achievement–Advanced*
### *A.A. Degree*
The Film/TV: Production Certificate of Achievement-Advanced and A.A. degree provides a more highly developed introduction to production for students interested in pursuing a career in the film or television industry or a bachelor's degree in Film, Television and Electronic Media. Students are exposed to various facets of professional film and 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 |
| or F/TV 1H | Introduction to Cinematic Arts - HONORS | |
| F/TV 6A | Screenwriting Fundamentals for Film/Video I | 4 |
| F/TV 10 | Introduction to Electronic Media | 4 |
| or F/TV 10H | Introduction to Electronic Media - HONORS | |
| F/TV 20 | Beginning Video Production | 4 |
| F/TV 22 | Beginning 16mm Motion Picture Production | 4 |
| F/TV 26 | Introduction to Film/Television Directing | 4 |
| F/TV 27 | Nonlinear Editing | 4 |

**Complete one course:** **4-4.5**
| F/TV 2A | History of Cinema (1895-1950) (4) |
| or F/TV 2AH | History of Cinema (1895-1950) - HONORS (4) |
| or 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) |
| or 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) |
| or F/TV 2CW | Contemporary World Cinema (4.5) |
| or F/TV 2CWH | Contemporary World Cinema - HONORS (4.5) |

**Complete one course:** **4**
| F/TV 23 | Beginning TV Studio Production (4) |
| F/TV 39 | Intermediate Digital Film and Video Production (4) |
| F/TV 44A | 16mm/35mm Film Production I (4) |

**Complete a minimum of eight units below or from above (not already taken):** **8**
| ARTS 1A | Introduction to the Visual Arts (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 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 75G | History of Animation (1900-Present) (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) | |
| PHTG 1 | Basic Photography (3) | |
| THEA 1 | Appreciation of Theatre (4) | |
| THEA 80A | Theory and Technique of Acting for the Camera (4) | |
| THEA 80B | Theory and Technique of Advanced Acting for the Camera (4) | |
| | **Total Units Required ........................... 44-44.5** | |

### *A.A. Degree*

| | | |
|---|---|---|
| *Major* | *Complete the Certificate of Achievement-Advanced requirements* | *44-44.5* |
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required ....................................90** | |

## Film/TV: Screenwriting

### *A.A. Degree*

The Film/TV: Screenwriting A.A. degree provides a foundation for students interested in pursuing a career in screenwriting for film or pursuing a 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 |
| or F/TV 1H | Introduction to Cinematic Arts - HONORS | |
| F/TV 2A | History of Cinema (1895-1950) | 4 |
| or F/TV 2AH | History of Cinema (1895-1950) - HONORS | |
| F/TV 2B | History of Cinema (1950-Present) | 4 |
| or F/TV 2BH | History of Cinema (1950-Present) - HONORS | |
| F/TV 6A | Screenwriting Fundamentals for Film/Video I | 4 |
| F/TV 10 | Introduction to Electronic Media | 4 |
| or F/TV 10H | Introduction to Electronic Media - HONORS | |
| 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 |

| | | |
|---|---|---|
| **Complete a minimum of 12 units:** | | **12** |
| ARTS 1A | Introduction to the Visual Arts (4) | |
| F/TV 2C | Contemporary World Cinema (4) | |
| or F/TV 2CH | Contemporary World Cinema - HONORS (4) | |
| or 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 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 75G | History of Animation (1900-Present) (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) | |
| PHTG 1 | Basic Photography (3) | |
| THEA 1 | Appreciation of Theatre (4) | |

| *Major* | *Film/TV: Screenwriting* | *48* |
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required ...................................90** | |

# GLOBAL STUDIES

## Global Studies
### Skills Certificate
Skills Certificates are awarded by departments and are not notated on official college transcripts. Contact the department directly for assistance and to apply.

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
• 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 |
| | *also listed as COMM 7* | |
| or ICS 7H | Intercultural Communication - HONORS | |
| | *also listed as COMM 7H* | |
| 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 to 1750 CE (4) | |
| or HIST 3BH | World History from 750 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) | |
| | **Total Units Required ...................................21** | |

## Global Studies
### Certificate of Achievement-Advanced
### A.A. Degree
The Global Studies Certificate of Achievement-Advanced and A.A. degree is an interdisciplinary program that prepares students to be well-versed in world history, global issues and perspectives, geography and cultural competence as well as proficient in a foreign language. Elective options direct students to a course of study focused on world history, international business, globalization issues, language and culture and the arts and humanities in the global environment. Students can take electives within one area of study, or mix electives from the various areas. The program prepares students for careers as citizens of the world and to navigate and communicate in a global environment.

*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

### 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 |
| or ANTH 2H | Cultural Anthropology - HONORS | |
| ECON 1 | Principles of Macroeconomics | 4 |
| or ECON 1H | Principles of Macroeconomics - HONORS | |
| ES 1 | Introduction to Environmental Studies | 4 |
| GEO 10 | World Regional Geography | 4 |

| ICS 7 | Intercultural Communication | 4 |
|---|---|---|
| | *also listed as COMM 7* | |
| or ICS 7H | Intercultural Communication - HONORS | |
| | *also listed as COMM 7H* | |
| 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 to 1750 CE (4) |
| or HIST 3BH | World History from 750 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) |
| | *also listed as ASAM 40* |
| ARTS 2H | History of Art: Native Arts of Mesoamerica and the Andes (4) |
| | *also listed as INTL 21* |
| ARTS 2J | History of Art: Arts of Africa, Oceania and Native North America (4) |
| | *also listed as INTL 22* |
| ARTS 2K | History of Art: Visual Arts of Islam (4) |
| | *also listed as INTL 23* |
| ARTS 2L | History of Art: Visual Arts of Africa (4) |
| | *also listed as INTL 24* |
| ARTS 3TC | Women and Art (4) |
| | *also listed as WMST 3C* |
| ASAM 32 | Vietnamese Literature (from Tradition to Asian American Identity) (4) |
| ASAM 41 | Introduction to Korean Popular Culture (4) |
| | *also listed as HUMI 13* |
| 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 16 | Multicultural Voices in Germany (4) |
| MUSI 1C | Music Appreciation: World Music in America (4) |

**Global Environment**

| ES 6 | Introduction to Environmental Law (4) |
|---|---|
| ESCI 19 | Environmental Biology (5) |
| ESCI 30 | Introduction to 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-Commerce (5) |
| BUS 87 | Introduction to Selling (4) |
| BUS 89 | Advertising (5) |
| BUS 90 | Principles of Marketing (5) |
| ECON 2 | Principles of Microeconomics (4) |
| or ECON 2H | Principles of Microeconomics - HONORS (4) |
| POLI 3 | International Relations (4) |

**World History**

| ANTH 4 | World Prehistory (4) |
|---|---|
| HIST 3A | World History from Prehistory to 750 CE (4) |
| or HIST 3AH | World History from Prehistory to 750 CE - HONORS (4) |
| HIST 3B | World History from 750 to 1750 CE (4) |
| or HIST 3BH | World History from 750 to 1750 CE - HONORS (4) |
| HIST 3C | World History from 1750 CE to the Present (4) |
| or HIST 3CH | World History from 1750 CE to the Present - HONORS (4) |
| HIST 6A | History of Western Civilization: Pre-History to 750 C.E. (4) |
| or HIST 6AH | History of Western Civilization: Pre-History to 750 C.E. - HONORS (4) |
| HIST 6B | History of Western Civilization: 750 C.E. to 1750 C.E. (4) |
| or HIST 6BH | History of Western Civilization: 750 C.E. to 1750 C.E. - HONORS (4) |
| HIST 6C | History of Western Civilization: 1750 C.E. to Present (4) |
| or HIST 6CH | History of Western Civilization: 1750 C.E. to Present - HONORS (4) |
| HIST 7A | Colonial Latin American History (4) |
| | *also listed as ICS 38A* |
| HIST 7B | Modern Latin American History (4) |
| | *also listed as ICS 38B* |

| HIST 16A | History of Africa to 1800 (4) | |
| | *also listed as ICS 16A* | |
| HIST 16B | History of Africa from 1800 to the Present (4) | |
| | *also listed as ICS 16B* | |
| HIST 19A | History of Asian Civilization: | |
| | China and Japan (to the 19th Century) (4) | |
| | *also listed as ASAM 42A* | |
| HIST 19B | History of Asian Civilization: | |
| | China and Japan (19th - 21st Centuries) (4) | |
| | *also listed as ASAM 42B* | |
| ICS 37 | Ancient Peoples of Mesoamerica (4) | |

**World Languages**

| ANTH 6 | Linguistic Anthropology (4) |
| ELIT 44 | International Literature (Fiction) (4) |
| LING 1 | Introduction to Linguistics (4) |
| World Lang. | World Language units in addition to Language Requirement above (5-15) |

World Languages offered:
French, German, Hindi, Italian, Japanese, Korean, Mandarin, Persian, Russian, Spanish, Vietnamese

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

# GRAPHIC AND INTERACTIVE DESIGN

## Graphic Design
*Certificate of Achievement*
*Certificate of Achievement-Advanced*
*A.A. Degree*

The Graphic and Interactive Design program emphasizes the elements and principles of design in combination with the use of computers, software and other design peripherals to produce graphic design projects. Focus is placed on the creative integration and selection of type styles and images as they relate to the printed page, film/video output, web-based design, user interface design and multimedia applications. The Graphic and Interactive Design program is designed to prepare students for the workforce.

*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 internet
- 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 Graphic Design: Vector Illustration | 4 |
| ARTS 54 | Introduction to Graphic Design: Digital Imaging | 4 |
| ARTS 55A | Graphic Design-Communication I | 4 |
| PHTG 4 | Introduction to Digital Photography | 3 |
| | **Total Units Required** ...................................**23** | |

*Recommended*
ARTS 4D

*Certificate of Achievement-Advanced*
1. Complete the Certificate of Achievement requirements.      23
2. Meet the requirements for this certificate level.
3. Complete the following.

| **Complete a minimum of 24 units:** | | **24** |
| 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 | Graphic Design: Portfolio and Business Practices (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:** | | **3** |
| ARTS 4A | Beginning Drawing (4) | |
| ARTS 55C | Graphic Design-Communication III: Production Techniques (4) | |
| CIS 89A | Web Page Development (4.5) | |
| F/TV 20 | Beginning Video Production (4) | |
| JOUR 61A | Student News Media Production I (3) | |
| JOUR 62B | Freelance Photography for Student Media (1) | |
| JOUR 62D | Freelance Digital Production for Student Media (1) | |
| JOUR 62E | Freelance Graphic Production for Student Media (1) | |
| | **Total Units Required** ...................................**50** | |

*A.A. Degree*

| *Major* | *Complete the Certificate of Achievement and Certificate of Achievement-Advanced requirements* | *50* |
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required** ...................................**90** | |

# 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 |
| | **Total Units Required** | **25** |

*\*You may substitute 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 |
| | **Total Units Required** | **24** |

*Recommended*
CIS 4, 99

## Lab Assisting
### Certificate of Achievement
The Health Technologies Department developed this Certificate of Achievement to train students in the clinical skills of performing venipunctures, setting up lab tests, processing specimens for testing in clinical labs, performing electrocardiograms and recognizing arrhythmias. Students also participate in administrative skills externships in local clinical sites as part of the program.

*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 |
| | **Total Units Required** | **25.5** |

*Recommended*
CIS 4, 99
HLTH 57A
HTEC 60G, 60H

## Medical File Clerk
### Certificate of Achievement
The Health Technologies Department developed this Certificate of Achievement to train students in the administrative skills of answering phones, keyboarding and filing medical reports. Students also participate in administrative skills externships in local clinical sites as part of the program.

*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 |
| | **Total Units Required** ..............................**22.5** | |

*\*You may substitute 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 |
| | **Total Units Required** ...................................**24** | |

*\*You may substitute 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 |
| | **Total Units Required** ..............................**24.5** | |

*\*You may substitute 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 or ACCT 1AH | Financial Accounting I Financial Accounting I - HONORS | 5 |
| BIOL 54G* | Applied Human Anatomy and Physiology: Levels of Organization | 1.5 |
| BIOL 54H* | Applied Human Anatomy and Physiology: Support, Movement, and Integration | 1.5 |
| BIOL 54I* | Applied Human Anatomy and Physiology: Coordination and Transport | 1.5 |
| BIOL 54J* | Applied Human Anatomy and Physiology: Absorption, Excretion, and Reproduction | 1.5 |
| CIS 4** | Computer Literacy | 4.5 |
| HTEC 50 | Introduction to Health Technologies | 2 |
| HTEC 60A | Basic Medical Terminology | 3 |
| HTEC 60G | Advanced Medical Terminology I | 2 |
| HTEC 60H | Advanced Medical Terminology II | 2 |
| HTEC 61 | Medical Communications | 1.5 |

| HTEC 68 | Medical Reception Externship | 2 |
| HTEC 71 | Medical Office Reception | 2 |
| HTEC 72 | Medical Office Financial Procedures | 1.5 |
| HTEC 73 | Medical Law and Ethics | 3 |
| HTEC 74A | Medical Transcription with Editing I | 1.5 |
| HTEC 75 | Electronic Health Records | 1.5 |
| HTEC 96B | Medical Secretarial Externship | 4 |
| HTEC 101C | Skill Building in Medical Communications | 1 |
| HTEC 101D | Skill Building in Medical Office Financial Procedures | 1 |
| HTEC 101H | Skill Building in Medical Transcription and Editing I | 1 |
| | **Total Units Required .................................44.5** | |

*\*BIOL 40A, 40B and 40C may be substituted for the BIOL 54G, 54H, 54I and 54J.*

*\*\*You may substitute another CIS course of equal or greater unit value.*

*Recommended*
CIS 99

## Medical Transcribing with Editing
### 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 |
| | **Total Units Required ....................................26** | |

*Recommended*
CIS 4, 99

## Phlebotomy Technician I
### Certificate of Achievement
The Health Technologies Department developed this Certificate of Achievement to train students in the clinical skills of performing venipunctures, setting up lab tests and processing specimens for testing in clinical labs. Students also participate in administrative skills externships in local clinical sites as part of the program. The Phlebotomy Technician I program has been approved by the California Department of Public Health-Laboratory Field Services.

*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 |
| | **Total Units Required ....................................22** | |

*\*You may substitute 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 |
| | **Total Units Required ...................62.5** | |

*BIOL 40A, 40B and 40C may be substituted for the BIOL 54G, 54H, 54I and 54J.*

**You may substitute another CIS course of equal or greater unit values.*

### A.S. Degree

Student must present current American Heart Association First Aid and Adult CPR Pro card to receive the degree.

| | | |
|---|---|---|
| *Major* | *Complete the Certificate of Achievement-Advanced requirements* | *62.5* |
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required ....................................90** | |

*Recommended*
PSYC 1
SOC 1

## HISTORY

### Associate in Arts in History for Transfer
*A.A.-T. Degree*

The History major consists of courses appropriate for an Associate in Arts in History for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). The Associate in Arts in History for Transfer is intended for students who plan to complete a bachelor's degree in History (or an approved similar major) 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.

| **Required Core:** | | **12** |
|---|---|---|
| HIST 17A | History of the United States to Early National Era | 4 |
| or HIST 17AH | History of the United States to Early National Era - HONORS | |
| HIST 17B | History of the United States from 1800 to 1900 | 4 |
| or HIST 17BH | History of the United States from 1800 to 1900 - HONORS | |

| HIST 17C | History of the United States from 1900 to the Present | 4 |
|---|---|---|
| or HIST 17CH | History of the United States from 1900 to the Present- HONORS | |

**List A - Complete one option:**                            12
**Option 1:**
| 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 to 1750 CE (4) |
| or HIST 3BH | World History from 750 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) |

**Option 2:**
| HIST 6A | History of Western Civilization: Pre-History to 750 CE (4) |
|---|---|
| or HIST 6AH | History of Western Civilization: Pre-History to 750 CE - HONORS (4) |
| HIST 6B | History of Western Civilization: 750 CE to 1750 CE (4) |
| or HIST 6BH | History of Western Civilization: 750 CE to 1750 CE - HONORS (4) |
| HIST 6C | History of Western Civilization: 1750 CE to Present (4) |
| or HIST 6CH | History of Western Civilization: 1750 CE to Present - HONORS (4) |

**List B - Complete one course from each area below:**      8
**Area 1:**
| HIST 7A | Colonial Latin American History (4) *also listed as ICS 38A* |
|---|---|
| HIST 7B | Modern Latin American History (4) *also listed as ICS 38B* |
| HIST 16A | History of Africa to 1800 (4) *also listed as ICS 16A* |
| HIST 16B | History of Africa from 1800 to the Present (4) *also listed as ICS 16B* |
| HIST 19A | History of Asian Civilization: China and Japan (to the 19th Century) (4) *also listed as ASAM 42A* |
| HIST 19B | History of Asian Civilization: China and Japan (19th - 21st Centuries) (4) *also listed as ASAM 42B* |

**Area 2:**
| HIST 9 | Women in American History (4) *also listed as WMST 9* |
|---|---|
| or HIST 9H | Women in American History - HONORS (4) *also listed as WMST 9H* |
| HIST 10 | History of California (4) |
| or HIST 10H | History of California - HONORS (4) |
| HIST 18A | African American History to 1865 (4) *also listed as ICS 18A* |
| HIST 18B | African American History Since 1865 (4) *also listed as ICS 18B* |

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

# HUMANITIES

## 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 | Introduction to Comparative Religion (4) |
| or HUMI 9H | Introduction to Comparative Religion - HONORS (4) |

| HUMI 10 | Global Religious Perspectives: Judaism, Christianity and Islam (4) | |
| HUMI 15 | Discussion on the Arts (4) | |
| HUMI 16 | Arts, Ideas and Values (4) | |
| HUMI 18 | History as Mystery: A Critique of Western Perspectives in a Global Context (4) | |
| or HUMI 18H | History as Mystery: A Critique of Western Perspectives in a Global Context - HONORS (4) | |
| HUMI 20 | The Greek Achievement (4) | |
| | **Total Units Required ...................................20** | |

# INTERCULTURAL STUDIES

## Intercultural Studies
*Certificate of Achievement-Advanced*
*A.A. Degree*

The Certificate of Achievement-Advanced and A.A. degree are interdisciplinary programs that provide 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. These programs enable 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 *also listed as ARTS 2F* | 4 |
| ICS 7 | Intercultural Communication *also listed as COMM 7* | 4 |
| or ICS 7H | Intercultural Communication - HONORS *also listed as COMM 7H* | |
| 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 |

**Complete one option:**      **16**
**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) *also listed as HIST 16A* |
| ICS 16B | History of Africa from 1800 to the Present (4) *also listed as HIST 16B* |
| ICS 18A | African American History to 1865 (4) *also listed as HIST 18A* |
| ICS 18B | African American History Since 1865 (4) *also listed as HIST 18B* |

**Asian American**
| ASAM 1 | Asian American Experiences Past to Present (4) |
| ASAM 10 | Contemporary Asian American Communities (4) |
| ASAM 11 | Asian Americans and Racism (4) |
| ASAM 12 | Asian Americans and American Ideals, Institutions and Politics (4) |
| ASAM 13 | The U.S. and Asia (4) |
| ASAM 20 | Asian Pacific American Literature (4) *also listed as ELIT 24* |
| ASAM 21 | Asian Pacific Americans Make Culture (4) |
| ASAM 30 | Filipinx American History and Culture (4) |
| ASAM 31 | Introduction to Pacific Islander History and Culture (4) |
| ASAM 42A | History of Asian Civilization: China and Japan (to the 19th Century) (4) *also listed as HIST 19A* |
| ASAM 42B | History of Asian Civilization: China and Japan (19th - 21st Centuries) (4) *also listed as HIST 19B* |

**Chicano**
| ICS 30 | Introduction to Chicanx and Latinx Studies (4) |
| ICS 31 | Chicanx Culture (4) |
| ICS 32 | Chicanx and Latinx History (4) |
| ICS 33 | The Chicanx and Latinx and the Arts (4) |
| ICS 35 | Chicano/a, Latino/a Literature (4) |

**Latin American**
| ICS 38A | Colonial Latin American History (4) *also listed as HIST 7A* |
| ICS 38B | Modern Latin American History (4) *also listed as HIST 7B* |

**Multicultural**

| | | |
|---|---|---|
| HIST 3A | World History from Prehistory to 750 CE (4) | |
| or HIST 3AH | World History from Prehistory to 750 CE - HONORS (4) | |
| HIST 3B | World History from 750 to 1750 CE (4) | |
| or HIST 3BH | World History from 750 to 1750 CE - HONORS (4) | |
| HIST 3C | World History from 1750 CE to the Present (4) | |
| or HIST 3CH | World History from 1750 CE to the Present - HONORS (4) | |
| ICS 2A | Introduction to Peer Mentoring, Leadership, and Community Building (2) | |
| ICS 2B | Practicum in Peer Mentoring, Leadership, and Community Building (2) | |
| ICS 17 | Critical Consciousness and Social Change (4) | |
| or ICS 17H | Critical Consciousness and Social Change - HONORS (4) | |
| ICS 26 | Introduction to Lesbian, Gay, Bisexual, Transgender and Queer Studies (4) | |
| ICS 29 | Cultural Pluralism and American Law and Justice (4) *also listed as ADMJ 29* | |
| ICS 47 | Introduction to Disability Studies (4) | |
| ICS 77 series | ICS 77, 77X, 77Y, 77Z Special Projects in Intercultural Studies (1-4) | |
| ICS 78 series | ICS 78, 78W, 78X, 78Y, 78Z Special Group Projects in Intercultural Studies (0.5-4) | |
| WMST 8 | Women of Color in the USA (4) | |

**Native American**

| | |
|---|---|
| ICS 41 | Native American Contemporary Society (4) |
| ICS 42 | California Native Americans (4) |
| ICS 43 | Native American History (4) |
| ICS 44 | Native American Religious Traditions (4) |
| ICS 45 | Survey of Native American Arts (4) |
| ICS 46 | Native American Literature (4) |
| | **Total Units Required ...................................40** |

### *A.A. Degree*

For the major, complete all requirements for the Certificate of Achievement-Advanced in Intercultural Studies except where 16 units are required in Options 1, 2 and 3 above, complete 20 units.

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

# JOURNALISM

## 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 (or an approved similar major) 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.

| **Required Core:** | | **13** |
|---|---|---|
| JOUR 2 | Media 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 |

| **List A - 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) | |

| **List B - 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 | Introductory Statistics (5) |
| or MATH 10H | Introductory Statistics - HONORS (5) |
| or PSYC 15 | Statistics and Research Methods in Social Science (4) |
| | *also listed as SOC 15* |
| 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) |

| | | |
|---|---|---|
| *Major* | *Journalism for Transfer* | *28-34* |
| *Transfer GE* | *CSU GE or (IGETC for CSU) (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** | |

# 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:**       **5**

| EWRT 1A | Composition and Reading (5) |
| or EWRT 1AH | Composition and Reading - HONORS (5) |
| or EWRT 1AT | Intensive Composition and Reading Stretch: Second Quarter (5) |

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

| JOUR 2 | Media 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:**       **5**

| EWRT 1B | Reading, Writing and Research (5) |
| or EWRT 1BH | Reading, Writing and Research - HONORS (5) |
| EWRT 2 | Critical Reading, Writing and Thinking (5) |
| or EWRT 2H | Critical Reading, Writing and Thinking - HONORS (5) |

**Complete two courses:**       **2-8**

| JOUR 61B | Student News Media Production II (3) |
| 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 77W | Special Projects in Journalism (1) |
| JOUR 78 series | JOUR 78W, 78X Special Topics in Journalism (1-2) |
| JOUR 80 | Introduction to Public Relations (4) |
| JOUR 90 | Introduction to Multimedia Reporting (4) |

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

| ARTS 53 | Introduction to Visual Technology (4) |
| ARTS 56 | Graphic Design: Page Layout for Digital Publishing (4) |
| CIS 89A | Web Page Development (4.5) |
| 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) |
| | *also listed as COMM 7* |
| or ICS 7H | Intercultural Communication - HONORS (4) |
| | *also listed as COMM 7H* |
| ICS 29 | Cultural Pluralism and American Law and Justice (4) |
| | *also listed as ADMJ 29* |
| LIB 1 | Library Research Skills (1) |
| POLI 1 | American Government and Politics (5) |
| or POLI 1H | American Government and Politics - HONORS (5) |

| | | |
|---|---|---|
| *Major* | *Journalism* | *27-33* |
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required** ...................................**90** | |

# 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 (or an approved similar major) 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.

| Required Core: | | 20 |
|---|---|---|
| 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 | 5 |

**List A - Complete a minimum of one unit from three different areas:**     **3**

**Area 1 - Aquatics:**
**KNES** 1A, 1B, 1C, 1CX, 1D, 1DX, 2A, 2AX

**Area 2 - Combatives:**
**KNES** 12D, 12DX, 12E, 12EX

**Area 3 - Dance:**
**DANC** 22K, 22L, 22M, 23A, 23B, 23C, 23L, 23M, 24A, 24B, 25A, 25B, 37A, 37B, 37C

**Area 4 - Fitness:**
**DANC** 22
**KNES** 2B, 2BX, 5A, 5AX, 5B, 5BX, 6A, 6AX, 7A, 7AX, 11A, 11AX, 15A, 15AX, 15C, 15CX, 15E, 15EX, 15EY, 16A, 16AX, 16AY, 19A, 19AX, 19D, 19DX, 19E, 19EX, 19G, 19GX, 22A, 22AX, 22B, 22BX, 22C, 22CX, 22D, 22DX, 22E, 22EX, 25A, 25AX, 26A, 26AX, 26B, 26BX, 42C, 42CX

**Area 5 - Individual Sports:**
**KNES** 12H, 12HX, 12J, 12JX, 29A, 29B, 30A, 30B, 30BX, 30C, 31A, 31AX, 31B, 31BX, 31C, 31CX, 32A, 32AX, 32B, 32BX, 32C, 32CX, 32D, 32DX

**Area 6 - Team Sports:**
**KNES** 36A, 36AX, 37A, 37AX, 37B, 37BX, 37C, 37CX, 37E, 38A, 38AX, 38B, 38BX, 38C, 38CX, 38DX

| List B - Complete two courses: | | 10 |
|---|---|---|
| BIOL 11 | Human Biology (5) | |
| CHEM 30A | Introduction to General, Organic and Biochemistry I (5) | |
| MATH 10 | Introductory Statistics (5) | |
| or MATH 10H | Introductory Statistics - HONORS (5) | |

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

# LEADERSHIP AND SOCIAL CHANGE

## Leadership and Social Change
### Certificate of Achievement
The Leadership and Social Change Certificate of Achievement prepares students to be community leaders, agents of change in the workplace and responsible participants in civic life in general. Students completing this certificate are prepared to work as an entry-level union organizer or staff person at a 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 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 *also listed as ICS 27* | 4 |
| or POLI 17H | Grassroots Democracy: Leadership and Power - HONORS *also listed as ICS 27H* | |

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

| | |
|---|---|
| ASAM 50 | Civic Leadership for Community Empowerment (4) |
| BUS 65 | Leadership (5) |
| COMM 15 | Critical Decision-Making in Groups (5) |
| or COMM 15H | Critical Decision-Making in Groups - HONORS (5) |
| COMM 70 | Effective Organizational Communication (5) |
| or COMM 70H | Effective Organizational Communication - HONORS (5) |
| ES 2 | Introduction to Sustainability (4) |
| ESCI 21 | Practices of Environmental Stewardship (5) |
| ICS 2A | Introduction to Peer Mentoring, Leadership, and Community Building (2) |
| ICS 19 | Making a Difference: Transforming Relations of Nature, Community, and Power (4) |
| POLI 60A | Introduction to Community Organizing (4) *also listed as SOSC 60A* |
| POLI 60B | Intermediate Community Organizing (4) *also listed as SOSC 60B* |
| POLI 60C | Advanced Community Organizing (4) *also listed as SOSC 60C* |

**Understanding Social Change**
**Complete a minimum of four units:** 4

| | |
|---|---|
| ASAM 1 | Asian American Experiences Past to Present (4) |
| ASAM 10 | Contemporary Asian American Communities (4) |
| ICS 4 | Race, Ethnicity and Inequality (4) |
| ICS 10 | An Introduction to African American Studies (4) |
| ICS 17 | Critical Consciousness and Social Change (4) |
| or ICS 17H | Critical Consciousness and Social Change - HONORS (4) |
| ICS 26 | Introduction to Lesbian, Gay, Bisexual, Transgender and Queer Studies (4) |
| ICS 29 | Cultural Pluralism and American Law and Justice (4) *also listed as ADMJ 29* |
| ICS 30 | Introduction to Chicanx and Latinx Studies (4) |
| ICS 41 | Native American Contemporary Society (4) |
| INTL 33 | Introduction to Peace and Conflict Studies (4) |
| POLI 15 | Grassroots Democracy: Race, Politics and the American Promise (4) *also listed as ICS 25* |
| POLI 16 | Grassroots Democracy: Social Movements Since the 1960s (4) *also listed as ICS 36* |
| SOC 5 | Sociology of Globalization and Social Change (4) *also listed as INTL 8* |
| WMST 1 | Introduction to Women's Studies (4) |
| WMST 8 | Women of Color in the USA (4) |
| WMST 24 | Women and Gender in Global Perspectives (4) |
| WMST 25 | Introduction to Black Feminism (4) |
| WMST 26 | La Mujer: Latina Life and Experience (4) |
| WMST 27 | Women and Gendered Violence (4) |
| WMST 29 | Masculinities in U.S. Culture and Society (4) |

**Leadership Internship**
**Complete a minimum of six units:** 6

| | |
|---|---|
| ARTS 72 | Internship in Art (1) |
| ICS 80 series | ICS 80, 80W, 80X, 80Y, 80Z Community Based Learning in Intercultural Studies - Intrapersonal (0.5-4) |
| ICS 81 series | ICS 81, 81W, 81X, 81Y, 81Z Community Based Learning in Intercultural Studies - Interpersonal (0.5-4) |
| ICS 82 series | ICS 82, 82W, 82X, 82Y, 82Z Community Based Learning in Intercultural Studies - Systems (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 - Historical (0.5-4) |
| SOSC 82 series | SOSC 82, 82W, 82X, 82Y, 82Z Community Based Learning in Social Sciences - Philosophical (0.5-4) |
| SOSC 83 series | SOSC 83, 83W, 83X, 83Y, 83Z Community Based Learning in Social Sciences - Sociological (0.5-4) |

**Total Units Required ...................................18**

# LIBERAL ARTS

## Liberal Arts
### *A.A. Degree*
Designed primarily for students who plan on transferring to the University of California or California State University, the associate degree in Liberal Arts represents the completion of a broad area of study with an emphasis in one of the following four areas: Arts and Letters; Business and Computer Information Systems; Science, Math and Engineering; or Social and Behavioral Sciences. The degree allows the student to develop a broad set of essential life and 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 and 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, 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
**ASAM** 20, 32, 40, 41
**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, 4, 51A, 51B
**ELIT** 8, 10, 10H, 11, 12, 17, 17H, 19, 21, 22, 24, 28, 38, 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, 67A, 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, 33, 35, 44, 45, 46, 47
**INTL** 16, 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, 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, 34, 42, 44A, 45, 48A, 48B, 48C, 51, 53, 58A, 58B
**PERS** 1, 2, 3
**PHIL** 1, 2, 3, 4, 7, 7H, 8, 8H, 11, 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, 87AH-87AM, 88
**BUS** 10, 18, 21, 54, 55, 56, 57, 58, 60, 65, 70, 73, 85, 87, 89, 90, 91, 94, 96
**CIS** 2, 3, 4, 14A, 14B, 18A, 18B, 18C, 21JA, 21JB, 22A, 22B, 22BH, 22C, 22CH, 26A, 26B, 26BH, 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, 11H, 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, 1AH, 1B, 1BH, 1C, 1CH, 10, 12A, 12B, 12C, 25, 30A, 30B
**CIS** 2, 3, 5, 14A, 14B, 18A, 18B, 18C, 21JA, 21JB, 22A, 22B, 22BH, 22C, 22CH, 26A, 26B, 26BH, 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, 21, 30, 60
**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, 11H, 12, 17, 22, 23, 31, 31A, 31B, 32, 41, 41H, 42, 42H, 43, 43H, 44, 46
**MET** 10, 10L, 12, 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, 8, 12, 68
**ARTS** 3TC
**ASAM** 1, 10, 11, 12, 13, 21, 30, 31, 42A, 42B, 50
**BUS** 21
**CD** 10G, 10H, 12, 50, 51A, 52, 53, 54, 55, 56, 57, 58, 59G, 59H, 60, 61, 63, 64, 67, 68, 70, 71, 72, 73, 74, 75, 90
**CIS** 2
**CLP** 5, 7
**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** 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
**HUMA** 10, 10H, 20, 30
**ICS** 2A, 4, 7, 7H, 9, 10, 11, 16A, 16B, 17, 17H, 18A, 18B, 19, 25, 26, 27, 27H, 29, 30, 31, 32, 36, 37, 38A, 38B, 41, 42, 43, 44
**INTL** 5, 8, 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, 60A, 60B, 60C, 75, 95
**PSYC** 1, 2, 3, 4, 5, 6, 9, 10G, 10H, 12, 14, 15, 24, 51, 63, 74A
**SOC** 1, 5, 14, 15, 20, 28, 29, 35, 51, 54, 73
**SOSC** 60A, 60B, 60C
**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 on their way to the A.A. degree.

*Program Learning Outcomes: Upon completion, students will be able to*
- Identify management issues and apply solutions and leadership styles

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

| | | |
|---|---|---|
| BUS 10 | Introduction to Business | 5 |
| BUS 57 | Human Resource Management | 5 |
| 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) | |
| | **Total Units Required ...................................** | **25** |

## 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 or 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

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

| | | |
|---|---|---|
| BUS 10 | Introduction to Business | 5 |
| BUS 18 | Business Law I | 5 |
| BUS 21 | Business and Society | 5 |
| BUS 56 | Human Relations in the Workplace | 5 |
| BUS 57 | Human Resource Management | 5 |
| 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-Commerce (5) | |
| BUS 87 | Introduction to Selling (4) | |
| BUS 90 | Principles of Marketing (5) | |
| COMM 70 | Effective Organizational Communication (5) | |
| or COMM 70H | Effective Organizational Communication - HONORS (5) | |
| ECON 1 | Principles of Macroeconomics (4) | |
| or ECON 1H | Principles of Macroeconomics - HONORS (4) | |

| | | |
|---|---|---|
| *Major* | *Management* | *54* |
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required ...................................** | **90** |

# 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

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

| | | |
|---|---|---|
| ASAM 42A | History of Asian Civilization: China and Japan (to the 19th Century) *also listed as HIST 19A* | 4 |
| MAND 1 | Elementary Mandarin (First Quarter) | 5 |
| MAND 2 | Elementary Mandarin (Second Quarter) | 5 |
| MAND 3 | Elementary Mandarin (Third Quarter) | 5 |
| | **Total Units Required ....................................19** | |

# Mandarin
## *Certificate of Achievement-Advanced*
The Certificate of Achievement-Advanced in Mandarin is designed to open employment opportunities for local students because of the large number of Bay Area companies conducting business and trade with China, Taiwan, Singapore and other Asian countries where Mandarin is widely used. It is a two-year course of study designed to build a strong language foundation in communication as well as expose students to Chinese culture and literature. Students transferring to four-year schools who plan to major or minor in Mandarin are well prepared by this curriculum.

*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 |
| | **Total Units Required ....................................34** | |

NEW

# Translation and Interpretation in Mandarin
## *Certificate of Achievement*
This certificate program is designed to prepare students for a career in legal and court interpretation. All program participants must be fluent in Mandarin and English and have a speaking proficiency equivalent to that of an educated native speaker. The potential careers students may enter upon completion include administrative hearing interpreters; Braille translators; conference interpreters; court interpreters; escort interpreters; guide interpreters; legal translators; literary translators; localization translators; medical interpreters and medical translators.

*Program Learning Outcomes - upon completion, students will be able to:*
- Differentiate between translation and interpreting
- Identify text type and audience in order to execute translation decisions
- Demonstrate appropriate grammar terminology through a verbal discussion
- Apply grammar and composition rules accurately
- Apply the terminology used in translation and interpreting
- Apply the appropriate use of sight translation in various settings

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

| | | |
|---|---|---|
| MAND 51 | Introduction to Translation and Interpreting | 4.5 |
| MAND 52 | Mandarin Grammar and Composition | 4.5 |
| MAND 53 | Mandarin/English Linguistics Analysis | 4.5 |
| MAND 54 | Sight Translation | 4.5 |
| | **Total Units Required ....................................18** | |

NEW

# Translation and Interpretation in Mandarin
## *Certificate of Achievement-Advanced*
This certificate program is designed to prepare students for a career in legal and court interpretation. The courses in this program and designed to prepare students to pass the California Court Interpreter Certification Exam. All program participants must be fluent in Mandarin and English and have a speaking proficiency equivalent to that of an educated native speaker. The potential careers students may enter upon completion include administrative hearing interpreters; Braille translators; conference interpreters; court interpreters; escort interpreters; guide interpreters; legal translators; literary translators; localization translators; medical interpreters and medical translators.

*Program Learning Outcomes - upon completion, students will be able to:*
- Differentiate between translation and interpreting
- Identify text type and audience in order to execute translation decisions
- Demonstrate appropriate grammar terminology through a verbal discussion
- Apply grammar and composition rules accurately
- Apply the terminology used in translation and interpreting
- Apply the appropriate use of sight translation in various settings

- Interpret complex proceedings at speeds of 145+ words per minute
- Use consecutive interpretation in the appropriate situations in court, hospital and social services settings

1. Complete the Certificate of Achievement requirements.    18
2. Meet the requirements for this certificate level.
3. Complete the following.

| MAND 55A | Consecutive Interpretation I | 4.5 |
|---|---|---|
| MAND 55B | Consecutive Interpretation II | 4.5 |
| MAND 56A | Simultaneous Interpretation I | 4.5 |
| MAND 56B | Simultaneous Interpretation II | 4.5 |
| | **Total Units Required ...................................36** | |

# 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 on their way 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) | |
| or ACCT 1AH | Financial Accounting I - HONORS (5) | |
| BUS 18 | Business Law I (5) | |
| BUS 54 | Business Mathematics (5) | |
| BUS 56 | Human Relations in the Workplace (5) | |
| BUS 60 | International Business Management (5) | |
| BUS 65 | Leadership (5) | |
| BUS 70 | Principles of E-Commerce (5) | |
| BUS 73 | International Marketing (5) | |
| BUS 94 | Social Media Marketing Strategies (5) | |
| BUS 96 | Principles of Management (5) | |
| | **Total Units Required ...................................24** | |

## Marketing Management
### A.A. Degree

Students pursuing an A.A. degree in Marketing Management prepare for a wide variety of marketing-related careers such as marketing events coordinator, retail sales manager, marketing communications associate, inside sales representative, sales specialist 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 |
|---|---|---|
| or ACCT 1AH | Financial Accounting I - HONORS | |
| BUS 10 | Introduction to Business | 5 |
| BUS 18 | Business Law I | 5 |
| BUS 54 | Business Mathematics | 5 |
| BUS 73 | International Marketing | 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) | |
| BUS 56 | Human Relations in the Workplace (5) | |
| BUS 57 | Human Resource Management (5) | |
| BUS 65 | Leadership (5) | |
| BUS 70 | Principles of E-Commerce (5) | |
| BUS 85 | Business Communication (3) | |
| BUS 94 | Social Media Marketing Strategies (5) | |
| 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** | |

# 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 (or an approved similar major) 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.

| Required Core: | | 20 |
|---|---|---|
| MATH 1A | Calculus | 5 |
| or MATH 1AH | Calculus - HONORS | |
| MATH 1B | Calculus | 5 |
| or MATH 1BH | Calculus - HONORS | |
| MATH 1C | Calculus | 5 |
| or MATH 1CH | Calculus - HONORS | |
| MATH 1D | Calculus | 5 |
| or MATH 1DH | Calculus - HONORS | |

| List A - Complete two courses: | | 10 |
|---|---|---|
| MATH 2A | Differential Equations | 5 |
| or MATH 2AH | Differential Equations - HONORS | |
| MATH 2B | Linear Algebra | 5 |
| or MATH 2BH | Linear Algebra - HONORS | |

| *Major* | *Mathematics for Transfer* | *30* |
|---|---|---|
| *Transfer GE* | *CSU GE or (IGETC for CSU) (47-61 units)* | |
| *Electives* | *CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90* | |
| | **Total Units Required ...................................90** | |

# MEDICAL LABORATORY TECHNOLOGY

## Clinical Laboratory Assistant
### *Certificate of Achievement*
The Clinical Laboratory Assistant Certificate of Achievement is available to students who have successfully completed the four required courses of study. The Certificate of Achievement is a 12-month course of study that prepares students for a career as a Clinical Laboratory Assistant through classroom study. Graduates of the certificate program have a recognized skill set for jobs as a laboratory assistant and opportunity for advancement.

*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/Immunohematology Laboratory | 1.5 |
| HTEC 84A | Clinical Immunology/Immunohematology Lecture | 4.5 |
| HTEC 85A | Clinical Chemistry I Laboratory | 1.5 |
| HTEC 85C | Clinical Chemistry I Lecture | 4.5 |
| | **Total Units Required ...................................24** | |

## Medical Laboratory Technology (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 an 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 prerequisite and requirements with a C grade or better.

**Prerequisite:**
State of California Phlebotomy Certification

| Complete the following: | | 16 |
|---|---|---|
| BIOL 26 | Introductory Microbiology | 6 |
| CHEM 30A | Introduction to General, Organic and Biochemistry I | 5 |
| CHEM 30B | Introduction to General, Organic and Biochemistry II | 5 |

| Complete one option: | | 15-18 |
|---|---|---|
| **Option 1:** | | |
| 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) | |

**Option 2:**

| | | |
|---|---|---|
| BIOL 40A | Human Anatomy and Physiology (5) | |
| BIOL 40B | Human Anatomy and Physiology (5) | |
| BIOL 40C | Human Anatomy and Physiology (5) | |
| | **Prerequisite Units Required**................. 31-34 | |

| | | |
|---|---|---|
| **Requirements:** | | **57** |
| HTEC 80A | Clinical Hematology Lecture | 4.5 |
| HTEC 80 | Clinical Hematology Laboratory | 1.5 |
| HTEC 81A | Clinical Urinalysis Lecture | 1.5 |
| HTEC 81 | Clinical Urinalysis Laboratory | 0.75 |
| HTEC 82A | Clinical Coagulation Lecture | 1.5 |
| HTEC 82 | Clinical Coagulation Laboratory | 0.75 |
| HTEC 83A | Clinical Microbiology Lecture | 4.5 |
| HTEC 83 | Clinical Microbiology Laboratory | 1.5 |
| HTEC 84A | Clinical Immunology/Immunohematology Lecture | 4.5 |
| HTEC 84 | Clinical Immunology/Immunohematology Laboratory | 1.5 |
| HTEC 85C | Clinical Chemistry I Lecture | 4.5 |
| HTEC 85A | Clinical Chemistry I Laboratory | 1.5 |
| HTEC 85D | Clinical Chemistry II Lecture | 4.5 |
| HTEC 85B | Clinical Chemistry II Laboratory | 1.5 |
| HTEC 180 | Clinical Hematology/Urinalysis/Coagulation Practicum | 6 |
| HTEC 183 | Clinical Microbiology Practicum | 6 |
| HTEC 184 | Clinical Immunology/Immunohematology Practicum | 4.5 |
| HTEC 185 | Clinical Chemistry Practicum | 6 |
| | **Total Units Required, Including Prerequisites**.......................... 88-91 | |

## Medical Laboratory Technology
### *A.A. Degree*
The A.A. degree in Medical Laboratory Technology is a 24-month course of study (including summers) that prepares students for a career as a medical laboratory technician through classroom study and supervised clinical training. The MLT program provides students with a quality education that complies with the established standards and guidelines of an accredited laboratory training program. Graduates of the degree program are eligible to sit for a state-approved national MLT certification examination.

*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 is recommended. 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:** | | **12** |
| MUSI 15A | Guitar Ensemble I (2) | |
| MUSI 15B | Guitar Ensemble II (2) | |
| MUSI 20 | De Anza Chorale (2) | |
| MUSI 21 | Vintage Singers (2) | |
| MUSI 22 | Early Music Study and Performance (2) | |
| MUSI 31 | Chamber Orchestra (2) | |
| MUSI 34 | Jazz Ensemble (2) | |
| MUSI 35 | Mariachi 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:**        **6**

| | | |
|---|---|---|
| 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 44A | Composition and Arranging - Level I (1.5) | |
| MUSI 48A | Jazz Improvisation I (1.5) | |
| MUSI 48B | Jazz Improvisation II (1.5) | |
| MUSI 48C | Jazz Improvisation III (1.5) | |
| MUSI 51 | Introduction to Electronic Music (3) | |
| MUSI 53 | Music Business (3) | |
| MUSI 58A | Beginning African and African-Influenced Percussion and Rhythms (1.5) | |
| MUSI 58B | Intermediate African and African-Influenced Percussion and Rhythms (1.5) | |
| MUSI 77 series | MUSI 77, 77X, 77Y Special Projects in Music (1-3) | |

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

# NURSING

## LVN Transition to RN
### *A.S. Degree*

Admission to the program is limited. The Licensed Vocational Nurse (LVN) Transition to Registered Nurse (RN) Program is a minimum of three 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).

*Program Learning Outcomes: Upon completion, students will be able to*
- Pass 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 annually. 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 with 75% in all the required subject areas.
- U.S. Social Security Number (SSN) or Individual Taxpayer Identification Number (ITIN) allowing employment in the U.S.

**Prerequisite:**        **9**
This prerequisite or its equivalent must be completed with a "C" grade or better:

| | | |
|---|---|---|
| MATH 109 | Intermediate Algebra for Statistics | 5 |
| or MATH 114 | College Math Preparation Level 3: Intermediate Algebra | |
| or MATH 130 | Intermediate Algebra for Precalculus | |

Complete MATH 109 or MATH 114 or MATH 130, its equivalent or higher level mathematics, or get a qualifying score for MATH 109 or MATH 114 or MATH 130 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 eight prerequisites or their equivalents must be completed with a C grade or better:**        **29**

| | | |
|---|---|---|
| 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 |

**Complete one course:**        **5**

| | | |
|---|---|---|
| ESL 5^ | Advanced Composition and Reading (5) | |
| EWRT 1A | Composition and Reading (5) | |
| or EWRT 1AH | Composition and Reading - HONORS (5) | |
| or EWRT 1AT | Intensive Composition and Reading Stretch: Second Quarter (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.*

*^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. Placement will be determined on assessment of prior education and work experience. Other courses from the RN curriculum may be required at the discretion of the Director of Nursing.

### Major Requirements:                  25
Complete with a C grade or better:

| | | |
|---|---|---|
| NURS 94 | Gerontology Nursing | 2 |
| NURS 94L | Gerontology Nursing Clinical | 2 |
| NURS 94A | Psychiatric/Mental Health Nursing | 2 |
| NURS 94AL | Psychiatric/Mental Health Nursing Clinical | 2 |
| NURS 95 | Complex Health Challenges | 4 |
| NURS 95L | Complex Health Challenges Clinical | 4.5 |
| NURS 96 | Leadership and Management in Nursing | 2 |
| NURS 96L | Leadership and Management in Nursing Clinical | 4.5 |
| NURS 96A | Nursing Concept Integration | 2 |
| | **Total Units Required, Incl. Prerequisites .......................................73** | |

### 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 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 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*
- Pass 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 annually. 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 with 75% in all the required subject areas.
- U.S. Social Security Number (SSN) or Individual Taxpayer Identification Number (ITIN) allowing employment in the U.S.

### Prerequisite:           7
The 10 prerequisites in this section will be used for screening and admission into the RN program.

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 109 | Intermediate Algebra for Statistics | 5 |
| or MATH 114 | College Math Preparation Level 3: Intermediate Algebra | |
| or MATH 130 | Intermediate Algebra for Precalculus | |

Complete MATH 109 or MATH 114 or MATH 130, its equivalent or higher level mathematics, or get a qualifying score for MATH 109 or MATH 114 or MATH 130 on De Anza's mathematics assessment test.

**These eight prerequisites or their equivalents**
**must be completed with a "C" grade or better:**    29

| | | |
|---|---|---|
| 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 |

**Complete one course:**            5

| | | |
|---|---|---|
| ESL 5^ | Advanced Composition and Reading (5) | |
| EWRT 1A | Composition and Reading 5) | |
| or EWRT 1AH | Composition and Reading - HONORS (5) | |
| or EWRT 1AT | Intensive Composition and Reading Stretch: Second Quarter (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.*

^*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........................50**

**Requirements:**
Admitted students complete the major courses and the Nursing General Education requirements to earn the degree.

**Major Requirements:**                          **53.5**
Complete with a "C" grade or better:

| | | |
|---|---|---|
| NURS 91A | Health Assessment | 2 |
| NURS 91AL | Health Assessment Lab | 2.5 |
| NURS 91B | Fundamentals of Nursing/Sub-Acute | 2 |
| NURS 91BL | Fundamentals of Nursing/Sub-Acute Clinical | 2 |
| NURS 91P | Pharmacology I | 1.5 |
| NURS 92 | Medical-Surgical Nursing | 4 |
| NURS 92L | Medical-Surgical Nursing Clinical | 4.5 |
| NURS 92P | Pharmacology II | 1.5 |
| NURS 93 | Reproductive Health Nursing | 2 |
| NURS 93L | Reproductive Health Nursing Clinical | 2 |
| NURS 93A | Pediatric Nursing | 2 |
| NURS 93AL | Pediatric Nursing Clinical | 2 |
| NURS 93PL | Pharmacology III Laboratory | 0.5 |
| NURS 94 | Gerontology Nursing | 2 |
| NURS 94L | Gerontology Nursing Clinical | 2 |
| NURS 94A | Psychiatric/Mental Health Nursing | 2 |
| NURS 94AL | Psychiatric/Mental Health Nursing Clinical | 2 |
| NURS 95 | Complex Health Challenges | 4 |
| NURS 95L | Complex Health Challenges Clinical | 4.5 |
| NURS 96 | Leadership and Management in Nursing | 2 |
| NURS 96L | Leadership and Management in Nursing Clinical | 4.5 |
| NURS 96A | Nursing Concept Integration | 2 |
| | **Total Units Required, Incl. Prerequisites ..................................103.5** | |

*Recommended*
NURS 201, 202, 203, 204

**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 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 | 4 |
| | *also listed as ADMJ 95 and POLI 95* | |
| 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 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 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 above (not already taken):** **4**

| | | |
|---|---|---|
| ADMJ 3 | Concepts of Criminal Law (CP 2) (4) | |
| | *also listed as PARA 3 and POLI 13* | |
| ADMJ 11 | Federal Courts and Constitutional Law (4) | |
| | *also listed as PARA 11 and POLI 11* | |
| ADMJ 54 | Youth and the Law (4) | |
| | *also listed as PARA 54 and SOC 54* | |

| | | |
|---|---|---|
| ADMJ 61 | Criminal Investigation (4) | |
| ADMJ 84 | Forensic Science (4) | |
| ADMJ 90A | Legal Aspects of Evidence (CP 4) (4) | |
| | *also listed as PARA 90A* | |
| BUS 18 | Business Law I (5) | |
| ES 6 | Introduction to Environmental Law (4) | |
| ICS 29 | Cultural Pluralism and American Law and Justice (4) | |
| | *also listed as ADMJ 29* | |
| LIB 51 | Business Resources on the Internet (1) | |
| PARA 25 | Law and Social Change (4) | |
| | *also listed as ADMJ 25* | |
| PARA 64 series | PARA 64, 64X, 64Y, 64Z Paralegal Internship (1-4) | |
| PARA 69 | Paralegal Field Trips (1) | |
| PARA 74A | Interviewing, Interrogation and Crisis Intervention (4) | |
| | *also listed as ADMJ 74A and PSYC 74A* | |
| PARA 75 | Principles and Procedures of the Justice System (4) | |
| | *also listed as ADMJ 75 and POLI 75* | |
| REST 52A | Legal Aspects of Real Estate (4) | |
| | **Total Units Required ...................................48** | |

### A.A. Degree

| | | |
|---|---|---|
| *Major* | *Complete the Certificate of Achievement-Advanced requirements* | *48* |
| *GE* | *General Education (32-43 units)* | |
| *Electives* | *Elective courses required when major units plus GE units total is less than 90* | |
| | **Total Units Required ...................................90** | |

## PHILOSOPHY

### Associate in Arts in Philosophy for Transfer
*A.A.-T. Degree*
The Philosophy major consists of courses appropriate for an Associate in Arts in Philosophy 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 Philosophy for Transfer is intended for students who plan to complete a bachelor's degree in Philosophy (or an approved similar major) 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*
- Analyze and evaluate a broad range of figures, texts, ideas, theories and problems within philosophy
- Apply philosophical methods to the development and defense of original critical theses

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

**Required Core - Complete two courses:**     **8**

| PHIL 1 | Introduction to Philosophy (4) |
| or PHIL 8 | Ethics (4) |
| or PHIL 8H | Ethics - HONORS (4) |
| PHIL 7 | Deductive Logic (4) |
| or PHIL 7H | Deductive Logic - HONORS (4) |

**List A - Complete two courses below or**
**from Required Core (not already taken):**     **8**

| PHIL 20A | History of Western Philosophy - Ancient Greece (4) |
| PHIL 20B | History of Western Philosophy - 1400-1800 (4) |
| PHIL 20C | History of Western Philosophy - 1800-the Present (4) |

**List B - Complete two courses below or**
**from List A (not already taken):**     **8**

| PHIL 2 | Social and Political Philosophy (4) |
| PHIL 24 | Philosophy of Religion (4) |
| PHIL 30 | Introduction to Existentialism (4) |

**List C - Complete one course below or**
**from List A or B (not already taken):**     **4-5**

| PHIL 3 | Critical Thinking and Writing (5) |
| PHIL 4 | Critical Thinking (4) |
| PHIL 11 | Asian Philosophy (4) |
| PHIL 49 | Women and Philosophy (4) |
| | *also listed as WMST 49* |

| *Major* | *Philosophy for Transfer* | *28-29* |
| *Transfer GE* | *CSU GE or (IGETC for CSU) (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** | |

# 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 ASAM 40* |

**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 Graphic Design: Vector Illustration (4) |
| ARTS 54 | Introduction to Graphic Design: Digital Imaging (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 7 | Exploring Visual Expression (4) | |
| PHTG 21 | Contemporary Trends in Photography (4) | |
| PHTG 54 | Experimental Photography (3) | |
| PHTG 57A | Commercial Lighting I (3) | |

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

# 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 (or an approved similar major) 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.

| **Required Core:** | | **5** |
|---|---|---|
| POLI 1 | American Government and Politics | 5 |
| or POLI 1H | American Government and Politics - HONORS | |

| **List A - Complete three courses:** | | **12-13** |
|---|---|---|
| POLI 2 | Comparative Politics (4) | |
| POLI 3 | International Relations (4) | |
| POLI 5 | Introduction to Political Thought and Theory (4) | |
| PSYC 15 | Statistics and Research Methods in Social Science (4) | |
| | *also listed as SOC 15* | |
| or MATH 10 | Introductory Statistics (5) | |
| or MATH 10H | Introductory Statistics - HONORS (5) | |

| **List B - Complete three courses below or from List A (not already taken):** | | **12** |
|---|---|---|
| ADMJ 29 | Cultural Pluralism and American Law and Justice (4) | |
| | *also listed as ICS 29* | |
| ANTH 2 | Cultural Anthropology (4) | |
| or ANTH 2H | Cultural Anthropology - HONORS (4) | |
| ASAM 50 | Civic Leadership for Community Empowerment (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 19 | Making a Difference: Transforming Relations of Nature, Community, and Power (4) | |
| POLI 15 | Grassroots Democracy: Race, Politics and the American Promise (4) | |
| | *also listed as ICS 25* | |
| POLI 16 | Grassroots Democracy: Social Movements Since the 1960s (4) | |
| | *also listed as ICS 36* | |
| POLI 17 | Grassroots Democracy: Leadership and Power (4) | |
| | *also listed as ICS 27* | |
| or POLI 17H | Grassroots Democracy: Leadership and Power - HONORS (4) | |
| | *also listed as ICS 27H* | |
| SOC 5 | Sociology of Globalization and Social Change (4) | |
| | *also listed as INTL 8* | |

| | | |
|---|---|---|
| *Major* | *Political Science for Transfer* | *29-30* |
| *Transfer GE* | *CSU GE or (IGETC for CSU) (47-61 units)* | |
| *Electives* | *CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90* | |
| | **Total Units Required** ....................................**90** | |

# PROFESSIONAL PHOTOGRAPHY (FILM AND DIGITAL)

## Professional Photography (Film and Digital)
### Certificate of Achievement

This Certificate of Achievement provides a foundation in the basics of photography including digital imaging, traditional processing and printing, and lighting. It also recognizes the importance of personal expression and the use of photography as a visual language. Students wishing to work in the industry, transfer, or complete an A.A. degree in Professional Photography should consider completing this certificate.

*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 |

| **Complete one course:** | | **3** |
|---|---|---|
| PHTG 2 | Intermediate Photography (3) | |
| PHTG 3 | Advanced Photography (3) | |
| PHTG 54 | Experimental Photography (3) | |
| PHTG 57B | Commercial Lighting II (3) | |
| PHTG 58B | Photographic Photoshop II (3) | |
| | **Total Units Required ...................................18** | |

## Professional Photography (Film and Digital)
### A.A. Degree

This A.A. degree program provides a comprehensive foundation in contemporary and traditional methods of photography. Digital imaging, processing and printing, lighting, history, business practices and the visual language of photography are studied. Emphasis is on the photography techniques appropriate for those entering the industry today.

*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 Graphic Design: Vector Illustration | 4 |
| BUS 56 | Human Relations in the Workplace | 5 |
| F/TV 20 | Beginning Video Production | 4 |
| JOUR 2 | Media 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) | |

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

*Recommended*
ARTS 8
BUS 10, 55
HUMI 1, 1H, 2
Other Photography courses

# PROJECT MANAGEMENT PRACTITIONER

## Project Management Practitioner
### Certificate of Achievement

This Certificate of Achievement is designed for individuals who want to become project managers in their respective industries. Project management is an important responsibility as more organizations use teams and project-based methods to get work done. Using a practicum-based approach, students apply the Project Management Book of Knowledge (PMBOK) to develop skills to enhance teamwork and communication, 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:** | | **4-4.5** |
| CIS 79 | Managing Technology Projects (4.5) | |
| CIS 95E | CAPM and PMP Exam Preparation (4) | |
| CIS 95F | Managing Cloud Projects (4) | |
| CIS 95G | Agile Project Management - A Practicum (4) | |
| | **Total Units Required ........................... 20-20.5** | |

## Project Management Practitioner
***Certificate of Achievement-Advanced***
***A.A. Degree***

NEW

The Certificate of Achievement-Advanced and A.A. degree prepares students for an entry-level position in the project management field to work as a project coordinator, project manager, business analyst or associate product manager with skills gained for assisting in program or portfolio management.

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

- Demonstrate skills in initiating, planning, execution and control of a project with mindfulness to scope, quality, budget and resources
- Demonstrate skills with technical tools for effective project management
- Apply skills for business analysis, program management or portfolio management in real-world projects

***Certificate of Achievement-Advanced***
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 |
| CIS 95E | CAPM and PMP Exam Preparation | 4 |
| CIS 95H | Business and Requirement Analysis | 4 |

| CIS 95J | Applying Emotional Intelligence for Effective Project Management | 3 |
| CIS 95K | Program Management - A Practicum | 4 |
| CIS 95L | Portfolio Management - A Practicum | 4 |

| **Complete two courses:** | | **8-8.5** |
| CIS 79 | Managing Technology Projects (4.5) | |
| CIS 95F | Managing Cloud Projects (4) | |
| CIS 95G | Agile Project Management - A Practicum (4) | |
| | **Total Units Required .......................... 43-43.5** | |

***A.A. Degree***
| *Major* | *Project Management Practitioner* | *43-43.5* |
| *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** | |

# PSYCHOLOGY

## Associate in Arts in Psychology for Transfer
***A.A.-T. Degree***

The Psychology major consists of courses appropriate for an Associate in Arts in Psychology 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 Psychology for Transfer is intended for students who plan to complete a bachelor's degree in Psychology (or an approved similar major) 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 scientific method to the study of behavior and mental processes
- Understand historical and contemporary perspectives of psychology and be able to apply these theories to real-world experiences
- Prepare to apply psychological concepts and theories to local and global issues affecting all beings as well as the environment

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

| **Required Core:** | | **14-15** |
| MATH 10 | Introductory Statistics (5) | 4-5 |
| or MATH 10H | Introductory Statistics - HONORS (5) | |
| or PSYC 15 | Statistics and Research Methods in Social Science (4) *also listed as SOC 15* | |

| PSYC 1 | General Psychology | 4 |
|--------|-------------------|---|
| PSYC 2 | Experimental Methods in Psychology and Behavioral Science | 6 |

**List A - Complete one course:** 4-5

| BIOL 10 | Introductory Biology (5) | |
| or BIOL 10H | Introductory Biology - HONORS (5) | |
| BIOL 11 | Human Biology (5) | |
| PSYC 24 | Introduction to Psychobiology (4) | |

**List B - Complete one course below or**
**from List A (not already taken):** 4

| PSYC 8 | Introduction to Social Psychology (4) | |
| PSYC 14 | Developmental Aspects of Psychology (4) | |

**List C - Complete two courses below or**
**from List A or B (not already taken):** 8-10

| ANTH 2 | Cultural Anthropology (4) | |
| or ANTH 2H | Cultural Anthropology - HONORS (4) | |
| CHEM 30A | Introduction to General, Organic and Biochemistry I (5) | |
| COMM 9 | Argumentation: Analysis of Oral and Written Communication (5) | |
| or COMM 9H | Argumentation: Analysis of Oral and Written 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) | |
| MATH 1A | Calculus (5) | |
| or MATH 1AH | Calculus - HONORS (5) | |
| or MATH 12 | Introductory Calculus for Business and Social Science (5) | |
| PHIL 3 | Critical Thinking and Writing (5) | |
| PHIL 4 | Critical Thinking (4) | |
| PSYC 4 | Abnormal Psychology (4) | |
| PSYC 5 | Introduction to Theories of Personality (4) | |
| PSYC 6 | Introduction to Humanistic Psychology (4) | |
| PSYC 9 | Psychology of Human Relationships and Normal Adjustment (4) | |
| PSYC 12 | Psychology of Gender *also listed as WMST 12* | |
| SOC 1 | Introduction to Sociology (4) | |

| *Major* | *Psychology for Transfer* | *30-34* |
| *Transfer GE* | *CSU GE or (IGETC for CSU) (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** |

# 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, fundraising 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

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

| BUS 90 | Principles of Marketing | 5 |
|--------|-------------------------|---|
| JOUR 2 | Media 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 94 | Social Media Marketing Strategies (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

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

| BUS 90 | Principles of Marketing | 5 |
|--------|-------------------------|---|
| BUS 94 | Social Media Marketing Strategies | 5 |
| JOUR 2 | Media 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 90 | Principles of Marketing (5) |

| | | |
|---|---|---|
| BUS 94 | Social Media Marketing Strategies (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 90 | Principles of Marketing (5) |
| BUS 94 | Social Media Marketing Strategies (5) |

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

For more program information see the California Department of Real Estate website at dre.ca.gov.

# SOCIAL JUSTICE STUDIES

*NEW*

## Associate in Arts in Social Justice Studies: General Studies for Transfer
### *A.A.-T. Degree*

The Social Justice Studies major consists of courses appropriate for an Associate in Arts in Social Justice Studies: General 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 Social Justice Studies: General Studies for Transfer is intended for students who plan to complete a bachelor's degree in Social Justice Studies (or an approved similar major) 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*

- Analyze the roots of a wide variety of social problems
- Develop pathways to solving those problems
- Have the capacity to make a difference in addressing those problems
- Understand the career paths related to making a difference in the social world

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

**Required Core:**                                          **12**

**Area 1 - Complete one course:**                              **4**
| | | |
|---|---|---|
| ICS 4 | Race, Ethnicity and Inequality (4) | |
| or SOC 29 | Sociology of Structural Racism in the United States (4) | |
| ICS 17 | Critical Consciousness and Social Change (4) | |
| or ICS 17H | Critical Consciousness and Social Change - HONORS (4) | |
| or ICS 19 | Making a Difference: Transforming Relations of Nature, Community, and Power (4) | |

**Area 2 - Complete one course:**                              **4**
| | |
|---|---|
| ICS 26 | Introduction to Lesbian, Gay, Bisexual, Transgender and Queer Studies (4) |
| SOC 28 | Sociology of Gender (4) |
| | *also listed as WMST 28* |
| WMST 1 | Introduction to Women's Studies (4) |

**Area 3 - Complete one course below or from above (not already taken):**                              **4**
| | |
|---|---|
| ANTH 2 | Cultural Anthropology (4) |
| or ANTH 2H | Cultural Anthropology - HONORS (4) |
| ASAM 10 | Contemporary Asian American Communities (4) |
| GEO 10 | Cultural Geography (4) |
| ICS 7 | Intercultural Communication (4) |
| | *also listed as COMM 7* |
| or ICS 7H | Intercultural Communication - HONORS (4) |
| | *also listed as COMM 7H* |
| ICS 9 | Race and Ethnicity: Belonging and Exclusion in the U.S. (4) |
| ICS 10 | An Introduction to African American Studies (4) |
| ICS 11 | Sankofa: The Roots of the African American Experience (4) |
| ICS 30 | Introduction to Chicanx and Latinx Studies (4) |
| ICS 31 | Chicanx Culture (4) |
| ICS 41 | Native American Contemporary Society (4) |
| ICS 42 | California Native Americans (4) |
| POLI 3 | International Relations (4) |
| SOC 1 | Introduction to Sociology (4) |
| SOC 20 | Social Problems (4) |

**List A - Complete four courses from at least three areas:**                              **16-17**
**Area 1 - History or Government:**
| | |
|---|---|
| ASAM 1 | Asian American Experiences Past to Present (4) |
| ASAM 31 | Introduction to Pacific Islander History and Culture (4) |
| HIST 3C | World History from 1750 CE to the Present (4) |
| or HIST 3CH | World History from 1750 CE to the Present - HONORS (4) |
| HIST 9 | Women in American History (4) |
| | *also listed as WMST 9* |
| or HIST 9H | Women in American History - HONORS (4) |
| | *also listed as WMST 9H* |
| ICS 16A | History of Africa to 1800 (4) |
| | *also listed as HIST 16A* |
| ICS 16B | History of Africa from 1800 to the Present (4) |
| | *also listed as HIST 16B* |
| ICS 18A | African American History to 1865 (4) |
| | *also listed as HIST 18A* |
| ICS 18B | African American History Since 1865 (4) |
| | *also listed as HIST 18B* |
| ICS 29 | Cultural Pluralism and American Law and Justice (4) |
| | *also listed as ADMJ 29* |
| ICS 32 | Chicanx and Latinx History (4) |
| ICS 37 | Ancient Peoples of Mesoamerica (4) |
| ICS 38A | Colonial Latin American History (4) |
| | *also listed as HIST 7A* |
| ICS 38B | Modern Latin American History (4) |
| | *also listed as HIST 7B* |
| ICS 43 | Native American History (4) |

**Area 2 - Arts and Humanities:**
| | |
|---|---|
| ARTS 3TC | Women and Art (4) |
| | *also listed as WMST 3C* |
| ASAM 20 | Asian Pacific American Literature (4) |
| | *also listed as ELIT 24* |
| ELIT 21 | Women in Literature (4) |
| | *also listed as WMST 21* |
| ICS 5 | History of Art (Multicultural Arts in the United States) (4) |
| | *also listed as ARTS 2F* |
| ICS 12 | An Introduction to African American Literature (4) |
| ICS 33 | The Chicanx and Latinx and the Arts (4) |
| ICS 35 | The Chicano/a, Latino/a Literature (4) |
| ICS 44 | Native American Religious Traditions (4) |
| ICS 45 | Survey of Native American Arts (4) |
| ICS 46 | Native American Literature (4) |
| PHIL 49 | Women and Philosophy (4) |
| | *also listed as WMST 49* |

**Area 3 - Social Science:**
| | |
|---|---|
| ASAM 50 | Civic Leadership for Community Empowerment (4) |
| ECON 3 | Environmental Economics (4) |
| or ECON 3H | Environmental Economics - HONORS (4) |
| ICS 25 | Grassroots Democracy: Race, Politics and the American Promise (4) |
| | *also listed as POLI 15* |
| ICS 27 | Grassroots Democracy: Leadership and Power (4) |
| | *also listed as POLI 17* |
| or ICS 27H | Grassroots Democracy: Leadership and Power - HONORS (4) |
| | *also listed as POLI 17H* |
| ICS 36 | Grassroots Democracy: Social Movements Since the 1960s (4) |
| | *also listed as POLI 16* |

| ICS 47 | Introduction to Disability Studies (4) |
| INTL 8 | Sociology of Globalization and Social Change (4) |
| | *also listed as SOC 5* |
| INTL 33 | Introduction to Peace and Conflict Studies (4) |
| SOC 35 | Marriage, Family, and Intimate Relationships (4) |
| WMST 8 | Women of Color in the USA (4) |
| WMST 12 | Psychology of Gender (4) |
| | *also listed as PSYC 12* |
| 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 29 | Masculinities in U.S. Culture and Society (4) |
| WMST 31 | Women and Popular Culture (4) |

**Area 4 - Quantitative Reasoning and Research Methods (only one course may be chosen in this area):**

| MATH 10 | Introductory Statistics (5) |
| or MATH 10H | Introductory Statistics - HONORS (5) |
| or PSYC 15 | Statistics and Research Methods in Social Science (4) |
| | *also listed as SOC 15* |
| SOC 14 | The Process of Social Research (4) |

**Area 5 - Major Preparation (not already taken from required core):**

| ANTH 2 | Cultural Anthropology (4) |
| or ANTH 2H | Cultural Anthropology - HONORS (4) |
| ASAM 10 | Contemporary Asian American Communities (4) |
| GEO 10 | Cultural Geography (4) |
| ICS 4 | Race, Ethnicity and Inequality (4) |
| or SOC 29 | Sociology of Structural Racism in the United States (4) |
| | *also listed as ADMJ 29* |
| ICS 7 | Intercultural Communication (4) |
| | *also listed as COMM 7* |
| or ICS 7H | Intercultural Communication - HONORS (4) |
| | *also listed as COMM 7H* |
| ICS 9 | Race and Ethnicity: Belonging and Exclusion in the U.S. (4) |
| ICS 10 | An Introduction to African American Studies (4) |
| ICS 11 | Sankofa: The Roots of the African American Experience (4) |
| ICS 17 | Critical Consciousness and Social Change (4) |
| or ICS 17H | Critical Consciousness and Social Change - HONORS (4) |
| or ICS 19 | Making a Difference: Transforming Relations of Nature, Community, and Power (4) |
| ICS 26 | Introduction to Lesbian, Gay, Bisexual, Transgender and Queer Studies (4) |
| ICS 30 | Introduction to Chicanx and Latinx Studies (4) |
| ICS 31 | Chicanx Culture (4) |
| ICS 41 | Native American Contemporary Society (4) |
| ICS 42 | California Native Americans (4) |
| POLI 3 | International Relations (4) |
| SOC 1 | Introduction to Sociology (4) |
| SOC 20 | Social Problems (4) |

| SOC 28 | Sociology of Gender (4) |
| | *also listed as WMST 28* |
| WMST 1 | Introduction to Women's Studies (4) |

| *Major* | *Social Justice Studies for Transfer* | *28-29* |
| *Transfer GE* | *CSU GE or (IGETC for CSU) (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** | |

# 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 (or an approved similar major) 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.

| **Required Core:** | **4** |
| SOC 1 | Introduction to Sociology | 4 |

| **Required Core - Complete two courses:** | **8** |
| SOC 14 | The Process of Social Research (4) |
| SOC 15 | Statistics and Research Methods in Social Science (4) |
| | *also listed as PSYC 15* |
| SOC 20 | Social Problems (4) |

| **List A - Complete three courses below or from Required Core (not already taken):** | **12** |
| PSYC 8 | Introduction to Social Psychology (4) |
| SOC 28 | Sociology of Gender (4) |
| | *also listed as WMST 28* |
| SOC 29 | Sociology of Structural Racism in the United States (4) |
| or ICS 4 | Race, Ethnicity and Inequality (4) |

| SOC 35 | Marriage, Family, and Intimate Relationships (4) | |
|---|---|---|

**List B - Complete one course below or from Required Core or List A (not already taken):** ........4

| | | |
|---|---|---|
| GEO 10 | World Regional Geography (4) | |
| ICS 17 | Critical Consciousness and Social Change (4) | |
| or ICS 17H | Critical Consciousness and Social Change - HONORS (4) | |
| ICS 19 | Making a Difference: Transforming Relations of Nature, Community, and Power (4) | |
| ICS 27 | Grassroots Democracy: Leadership and Power (4) *also listed as POLI 17* | |
| or ICS 27H | Grassroots Democracy: Leadership and Power - HONORS (4) *also listed as POLI 17H* | |
| PSYC 1 | General Psychology (4) | |
| SOC 51 | Women in Crime (4) *also listed as ADMJ 51* | |
| SOC 54 | Youth and the Law (4) *also listed as ADMJ 54 and PARA 54* | |
| SOC 73 | Crime and Criminology (4) *also listed as ADMJ 73* | |

| | | |
|---|---|---|
| *Major* | *Sociology for Transfer* | *28* |
| *Transfer GE* | *CSU GE or (IGETC for CSU) (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** | |

# TRANSFER STUDIES

## CSU GE

### Certificate of Achievement-Advanced

This Certificate of Achievement-Advanced is designed for students planning to transfer to the California State University (CSU). It offers a program of study that meets the CSU lower division General Education requirements. Though completion of lower division General Education is not usually required to transfer, and not recommended for certain majors, most students should make completion of all or most of CSU GE requirements a priority, along with completion of their lower-division major coursework. Students are advised to meet with a counselor or academic adviser to discuss transfer requirements, including General Education, lower division major preparation, minimum and competitive GPAs, and the transfer admission process.

To earn this advanced certificate, students must meet all CSU GE Breadth requirements found at deanza.edu/articulation/ge-requirements. Courses on this advanced certificate are approved for a specific academic year, so requirements listed in catalogs for other years do not apply. Courses must be on the approved list during the year in which they were taken. For approved courses by academic year, see assist.org. This advanced certificate will be noted on the student's transcript.

Important: The Certificate of Achievement-Advanced differs from the CSU GE "certification form" required by most CSU campuses to verify completion of lower division General

Education work. Not all criteria required for the advanced certificate applies to the CSU GE "certification." 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. CSU GE certification request forms are available at the Admissions and Records Office and online at deanza.edu/counseling/forms.

*Program Learning Outcomes: Upon completion, students will be able to*
- Communicate effectively both verbally and in writing
- Critically analyze and problem-solve using applicable techniques, incorporating the appropriate use of logic, mathematical and quantitative reasoning concepts, scientific theories, data, and the scientific method, while considering value systems and ethics associated with human inquiry
- Critically examine the interrelationship between the self and the creative arts and of the humanities in a variety of cultural and historical perspectives, through the study of the arts, history, literature, philosophy and foreign languages
- Critically analyze issues in their contemporary and historical settings and in a variety of cultural contexts, while exploring the principles, methodologies, value systems and ethics employed in social scientific inquiry

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

See CSU GE pattern found at deanza.edu/articulation/ge-requirements.

***Note: This is an exception to the Certificate of Achievement-Advanced Requirements. The requirements are stated within the description.***

**Total Units Required** ....................................**58**

## IGETC

### Certificate of Achievement-Advanced

This Certificate of Achievement-Advanced is designed for students planning to transfer to either the University of California (UC) or the California State University (CSU) systems. It offers a program of study that meets the Intersegmental General Education Transfer Curriculum (IGETC) requirements. Though completion of lower division General Education is not usually required to transfer*, and not recommended for certain majors, most students should make completion of all or most of IGETC a priority, along with completion of their lower-division major coursework. Students are advised to meet with a counselor or academic adviser to discuss transfer requirements, including General Education, lower division major preparation, minimum and competitive GPAs, and the transfer admission process.

To earn this advanced certificate, students must complete a minimum of 47-61 units, depending on the option selected, distributed among five to six areas outlined in the IGETC pattern found at deanza.edu/articulation/ge-requirements, with a C grade or higher in each course (or with a Pass if the course was taken on a Pass/No Pass basis and the Pass is equal to a C or higher grade). Courses on this advanced certificate are approved for a specific academic year, so requirements listed in catalogs for other years do not apply. Courses completed for

this advanced certificate must be on the approved list during the year in which they were taken.

Important: The Certificate of Achievement-Advanced differs from the IGETC "certification form" required by most UC and CSU campuses to verify completion of lower division General Education work. Not all criteria required for the advanced certificate applies to this IGETC "certification."

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. IGETC certification request forms are available at the Admissions and Records Office and online at deanza.edu/counseling/forms.

*A college or specific program may specify full IGETC certification is required for admission under certain conditions. Students should meet with a De Anza counselor or academic adviser to determine if IGETC is the best option to meet their specific transfer goals.

(For UC Option) Demonstrate proficiency in a language other than English and knowledge of the associated history and culture, at the level achieved through two years of high school study.

*Program Learning Outcomes: Upon completion, students will be able to*
• Communicate effectively both verbally and in writing
• Critically analyze and problem-solve using applicable techniques, incorporating the appropriate use of logic, mathematical and quantitative reasoning concepts, scientific theories, data, and the scientific method, while considering value systems and ethics associated with human inquiry
• Critically examine the interrelationship between the self and the creative arts and of the humanities in a variety of cultural and historical perspectives, through the study of the arts, history, literature, philosophy and foreign languages
• Critically analyze issues in their contemporary and historical settings and in a variety of cultural contexts, while exploring the principles, methodologies, value systems and ethics employed in social scientific inquiry

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

See IGETC pattern found at deanza.edu/articulation/ge-requirements.

***Note: This is an exception to the Certificate of Achievement-Advanced Requirements. The requirements are stated within the description.***

**Total Units Required .............................. 47-61**


# 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) *also listed as ARTS 3TC* | |
| WMST 9 | Women in American History (4) *also listed as HIST 9* | |
| or WMST 9H | Women in American History - HONORS (4) *also listed as HIST 9H* | |
| WMST 12 | Psychology of Gender (4) *also listed as PSYC 12* | |
| WMST 21 | Women in Literature (4) *also listed as ELIT 21* | |
| WMST 22 | Asian American Pacific Islander Women (4) | |
| WMST 24 | Women and Gender in Global Perspectives (4) | |
| WMST 25 | Introduction to Black Feminism (4) | |
| WMST 26 | La Mujer: Latina Life and Experience (4) | |
| WMST 27 | Women and Gendered Violence (4) | |
| WMST 28 | Sociology of Gender (4) *also listed as SOC 28* | |
| WMST 29 | Masculinities in U.S. Culture and Society (4) | |
| WMST 31 | Women and Popular Culture (4) | |
| WMST 49 | Women and Philosophy (4) *also listed as PHIL 49* | |
| | **Total Units Required ...................................24** | |
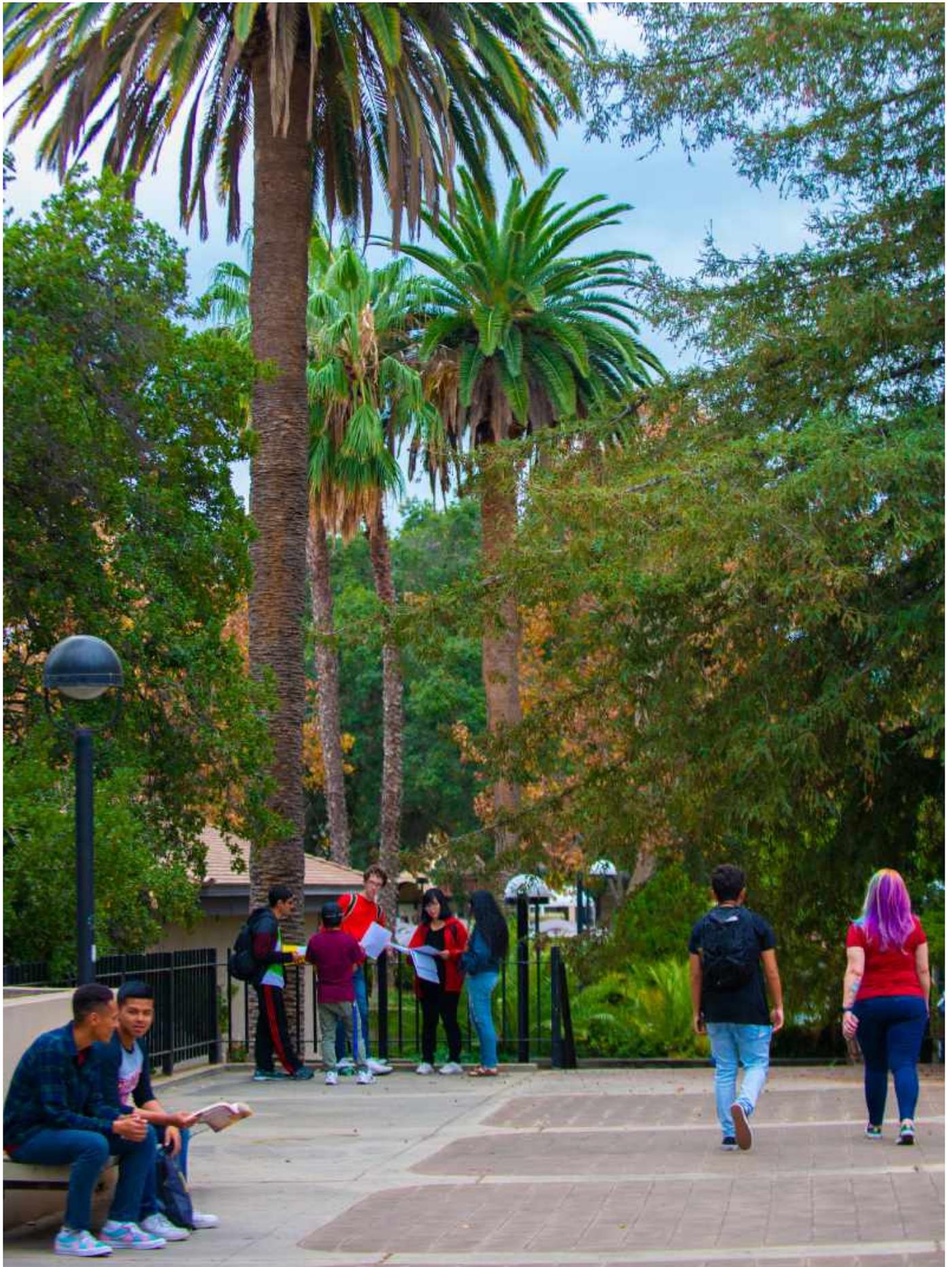
# COURSE NUMBERING SYSTEM

## GENERAL GUIDELINES FOR COURSES NUMBERED

**1-49** Transferable to UC (See information on limitations below.)

**1-99** Transferable to CSU

**1-199** De Anza A.A./A.S. degree applicable

**200-299** Prerequisite for required courses that lead to the A.A./A.S. degree and non-degree applicable credit courses

**300-399** Noncredit CTE, noncredit basic skills, and noncredit disability support courses that do not apply to the Associate Degree

See individual course listings 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 **assist.org** for updates. The 2020-2021 UC transferable course list will be available on the ASSIST website in fall 2020.

**2019-2020 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 | ADMJ 3, 11, 25, PARA 25 (and their cross-listings) combined: maximum credit, 1 course |
| BIOL | No credit for BIOL 10, 10H or 11 if taken after BIOL 6A, 6AH, 6B, 6C, or 6CH |
| BUS | BUS 10 and 21 combined: maximum credit, 1 course |
| CLP | CLP 5, 7, COUN 5, EDAC 1 and HUMA 20 combined: maximum credit, 4.5 quarter units |
| CHEM | CHEM 10, 25 and 30A combined: maximum credit, 1 course; No credit for CHEM 10, 25 or 30A if taken after CHEM 1A or 1AH |
| 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 |
| COUN | COUN 5 , CLP 5, 7, EDAC 1 and HUMA 20 combined: maximum credit, 4.5 quarter units |
| EDAC | EDAC 1, CLP 5, 7, COUN 5 and HUMA 20 combined: maximum credit, 4.5 quarter units |
| EWRT | EWRT 1A or (EWRT 1AS and 1AT) combined: maximum credit, 5 quarter units |
| | EWRT 1AS and 1AT must both be completed in order to receive transfer credit |
| ESCI | ESCI 19, 21, 30 and 20 (currently non-transferable as ESCI 60): maximum credit, 3 courses |
| F/TV | F/TV 2A, 2AH, 2AW and 2AWH combined: maximum credit, 1 course |

| | |
|---|---|
| | F/TV 2B, 2BH, 2BW and 2BWH combined: maximum credit, 1 course |
| | F/TV 2C, 2CH, 2CW and 2CWH combined: maximum credit, 1 course |
| | F/TV 20 and 22 combined: maximum credit, 1 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 20, CLP 5, 7, COUN 5 and EDAC 1 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, 1 course |
| KNES/PE/PEA | KNES/PE/PEA Activity Courses combined: maximum credit, 6 quarter units |
| | KNES/PE Theory courses combined: maximum credit, 12 quarter units |
| | For full list of KNES Activity/Theory courses with limitations, visit **assist.org** |
| 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, 1 course |
| | MATH 10, 10H, 17, 23, PSYC 15 and SOC 15 combined:maximum credit, 1 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 31, 31A, 31B, 32, 41, 41H, 42, 42H, 43 and 43H combined: maximum credit, 7.5 quarter units / 5 semester units |
| MUSI | No credit for MUSI 10A if taken after MUSI 3A |
| PARA | PARA 25, ADMJ 3, 11, 25 (and their cross-listings) combined: maximum credit, 1 course |
| PERS | PERS 2 corresponds to two years of high school study |
| PE/PEA/KNES | PE/PEA/KNES Activity courses combined: maximum credit,6 quarter units |
| | PE/KNES Theory courses combined: maximum credit, 12 quarter units |
| | For full list of PE/PEA/KNES Activity and Theory courses with limitations, visit **assist.org** |
| PHYS | PHYS 2A, 2B, 2C, and 4A, 4B, 4C, 4D combined: maximum credit, 1 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, 1 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, 1 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 labeled "Independent Studies," "Special Studies," "Special Topics," "Field Work," etc. Credit for variable topics courses is given only after a review of the scope and content of the course by the enrolling UC campus. This usually occurs after transfer and may require recommendations from faculty. Information about internships may also be presented for review, but credit for internships rarely transfers to UC. UC does not grant credit for variable topics courses in Journalism, Photography, Health, Business Administration, Architecture, Administration of Justice (Criminology) or Library Departments because of credit restrictions in these areas. |
| **Honors Course Credit Limitation** | Duplicate credit will not be awarded for both the honors and regular versions of a course. Credit will be awarded only to the first course completed with a grade of C or better. |

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



# COURSE LISTINGS AND DESCRIPTIONS

## Accounting

**ACCT 1A    Financial Accounting I    5 Units**
*(Not open to students with credit in ACCT 1AH.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Five hours lecture (60 hours total per quarter).*
The primary objective of this course is to help students learn how accounting meets the information needs of various users by developing and communicating information that is used in decision-making. Accordingly, the expected student outcome is the demonstration that the student can read, analyze and interpret external financial statements.

**ACCT 1AH    Financial Accounting I - HONORS    5 Units**
*(Not open to students with credit in ACCT 1A.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Five hours lecture (60 hours total per quarter).*
The primary objective of this course is to help students learn how accounting meets the information needs of various users by developing and communicating information that is used in decision-making. Accordingly, the expected student outcome is the demonstration that the student can read, analyze and interpret external financial statements. As an honors course, the students will be expected to complete extra assignments to gain deeper insight in accounting.

**ACCT 1B    Financial Accounting II    5 Units**
*(Not open to students with credit in ACCT 1BH.)*
*Prerequisite: ACCT 1A or ACCT 1AH.*
*Five hours lecture (60 hours total per quarter).*
The primary objective of this course is to help students learn how accounting meets the information needs of various users by developing and communicating information that is used in decision-making. Accordingly, the expected student outcome is the demonstration that the student can read, analyze and interpret external financial statements, including corporate and partnership financial statements.

**ACCT 1BH    Financial Accounting II - HONORS    5 Units**
*(Not open to students with credit in ACCT 1B.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Prerequisite: ACCT 1A or ACCT 1AH.*
*Five hours lecture (60 hours total per quarter).*
The primary objective of this course is to help students learn how accounting meets the information needs of various users by developing and communicating information that is used in decision-making. Accordingly, the expected student outcome is the demonstration that the student can read, analyze and interpret external financial statements, including corporate and partnership financial statements. As an honors course, the students will be expected to complete extra assignments to gain deeper insight in accounting.

**ACCT 1C    Managerial Accounting    5 Units**
*(Not open to students with credit in ACCT 1CH.)*
*Prerequisite: ACCT 1B or ACCT 1BH.*
*Five hours lecture (60 hours total per quarter).*
Study the role of management accounting information in organizations for operational control, product and customer costing and performance measurement.

**ACCT 1CH    Managerial Accounting - HONORS    5 Units**
*(Not open to students with credit in ACCT 1C.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Prerequisite: ACCT 1B or ACCT 1BH.*
*Five hours lecture (60 hours total per quarter).*
Study the role of management accounting information in organizations for operational control, product and customer costing and performance measurement. As an honors course, the students will be expected to complete extra assignments to gain deeper insight in Accounting.

**ACCT 51A    Intermediate Accounting    5 Units**
*Prerequisite: ACCT 1B or ACCT 1BH.*
*Five hours lecture (60 hours total per quarter).*
Principles, control, and theory of accounting for assets, financial statements, cash and cash flows, receivables, inventories, plant and equipment, intangible assets.

**ACCT 51B    Intermediate Accounting    5 Units**
*Prerequisite: ACCT 1B or ACCT 1BH.*
*Advisory: ACCT 51A.*
*Five hours lecture (60 hours total per quarter).*
Principles, control, and theory of accounting for liabilities and equities, corporations, accounting changes, pensions and leases, price level and fair-value accounting.

**ACCT 52    Advanced Accounting    5 Units**
*Prerequisite: ACCT 1B or ACCT 1BH.*
*Advisory: ACCT 51B.*
*Five hours lecture (60 hours total per quarter).*
Presents financial accounting theories and practices related to business combinations and consolidated financial reporting. This includes the development of complex business structures and forms of business combinations; consolidated financial reporting for intercorporate acquisitions and operations; and the accounting for transactions of affiliated companies. Also includes accounting and reporting issues in the governmental and not-for-profit environment. Accounting theory and practice related to the formation, operation and liquidation of partnerships is covered.

**ACCT 58    Auditing    5 Units**
*Prerequisite: ACCT 1B or ACCT 1BH.*
*Advisory: ACCT 51B.*
*Five hours lecture (60 hours total per quarter).*
Study of environment, principle, and practices of financial statement audit. Topics include Generally Accepted Auditing Standards (GAAS), Sarbanes-Oxley Act 2002 regulatory requirements, internal controls and audit risk; audit planning, procedures, evidence, documentation and reports.

**ACCT 64    Payroll and Business Tax Accounting    4 Units**
*Prerequisite: ACCT 1A or ACCT 1AH.*
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 212 or equivalent.*
*Four hours lecture (48 hours total per quarter).*
Fundamentals of payroll accounting using manual and computerized accounting systems. Theoretical and practical aspects of payroll accounting and reporting. Course includes Federal and California payroll tax rules and forms.

**ACCT 66    Cost Accounting    5 Units**
*Prerequisite: ACCT 1B or ACCT 1BH.*
*Advisory: ACCT 1C or ACCT 1CH.*
*Five hours lecture (60 hours total per quarter).*
Procedures, practices, and fundamentals used by accountants when costing products or services, evaluating and measuring performances, and reporting results to users of accounting information.

**ACCT 67    Individual Income Taxation    5 Units**
*(Formerly ACCT 67A.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 210 or equivalent; ACCT 1A or ACCT 1AH (may be taken concurrently).*
*Five hours lecture (60 hours total per quarter).*
A study of current federal and California state income tax law and the procedures for preparing an individual's tax return.

**ACCT 68    Advanced Tax Accounting    5 Units**
*Advisory: ACCT 1A or ACCT 1AH.*
*Five hours lecture (60 hours total per quarter).*
A study of current federal income tax law as it relates to corporations, partnerships, estates, trusts, and gift taxes. California tax law differences will be highlighted.

**ACCT 73    Fraud Detection and Deterrence    5 Units**
*Prerequisite: ACCT 1B or ACCT 1BH.*
*Five hours lecture (60 hours total per quarter).*
The principles and methodology of fraud detection and deterrence as it relates to occupational fraud are covered in this course. Includes such topics as skimming, cash larceny, check tampering, register disbursement schemes, billing schemes, payroll and expense reimbursement schemes, non-cash misappropriations, corruption, accounting principles and fraud, fraudulent financial statements, risk assessment and interviewing witnesses.

**ACCT 74    Accounting Ethics    5 Units**
*Prerequisite: ACCT 1A or ACCT 1AH.*
*Five hours lecture (60 hours total per quarter).*
Study of professional ethics for accounting from a business perspective in context of financial statement fraud and similar business fraud. Topics include nature of accounting, ethical behavior in accounting, regulatory licensing, ethical theory, rules of the code of conduct, ethics of tax accounting and ethics of the auditing function.

**ACCT 75    Accounting for Government and    5 Units**
**            Nonprofit Entities**
*Prerequisite: ACCT 1B or ACCT 1BH.*
*Advisory: ACCT 1C or ACCT 1CH.*
*Five hours lecture (60 hours total per quarter).*
Presents the characteristics and principles of the financial policies and procedures followed by state, county and municipal governments, as well as public and private universities and hospitals, and certain nonprofit organizations. The course will emphasize the importance to governmental agencies of properly discharging their responsibilities to taxpayers. These responsibilities include the proper accounting for and budgeting of tax and related revenues and expenditures. The course

will also emphasize the importance to nonprofit entities of meeting the financial reporting and management needs of various stakeholders such as donors, service providers and recipients, community members, and regulatory agencies. Funds, fund accounting, and the newest GASB and FASB pronouncements relating to accounting for governmental and nonprofit entities are also presented.

**ACCT 87AH**  **Computerized Accounting Programs I**  **2 Units**
**(Peachtree - Windows)**
*Prerequisite: ACCT 1A or ACCT 1AH.*
*Two hours lecture (24 hours total per quarter).*
This course is an introduction to computerized accounting for the 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**  **2 Units**
**(Quickbooks)**
*Prerequisite: ACCT 1A or ACCT 1AH.*
*Two hours lecture (24 hours total per quarter).*
This course is an introduction to computerized accounting for the 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**  **2 Units**
**(Microsoft Dynamics GP)**
*Prerequisite: ACCT 1A or ACCT 1AH.*
*Two hours lecture (24 hours total per quarter).*
This course is an introduction to computerized accounting for the 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 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 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 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, an 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 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 ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
An examination of the complex, dynamic relationship between communities and the justice system by addressing crime and conflict with an emphasis on the challenges and prospects of administrating justice within a diverse multicultural population. Topics covered may include crime prevention, restorative justice, conflict resolution, and ethics.

**ADMJ 6**  **Crime, Correction and Society**  **4 Units**
*(Formerly ADMJ 50.)*
*Advisory: EWRT 211 and READ 211, or 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. This is a C-ID course.

**ADMJ 11**  **Federal Courts and Constitutional Law**  **4 Units**
*Advisory: EWRT 211 and READ 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 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**  **4 Units**
**and Justice**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 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 ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
This is 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 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 ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
Designed to equip public service workers and the community with knowledge of the issues involved in drug abuse, including the history and classification of drugs and the problems facing society and the governing of illegal drug use.

**ADMJ 56**  **Practical Writing for**  **4 Units**
**Administration of Justice**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
This course is 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.

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**ADMJ 61          Criminal Investigation                4 Units**
*Prerequisite: ADMJ 3 or PARA 3 or POLI 13 (may be taken concurrently) or ADMJ 75 or PARA 75 or POLI 75 (may be taken concurrently).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
Fundamentals of crime investigation; techniques of crime scene search and recording; collection and preservation of physical evidence; use of scientific aids; modus operandi processes; sources of information; interviewing techniques.

**ADMJ 62          Sexual Assault, Police and          4 Units**
**                        Community Response**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Also listed as PSYC 63. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
This course examines the societal and psychological aspects of sexual assault, the perpetrators and the victims, along with the practical application of the police investigation, the criminal justice process, and social service intervention.

**ADMJ 64          Administration of Justice Internship    1 Unit**
**ADMJ 64X                                                    2 Units**
**ADMJ 64Y                                                    3 Units**
**ADMJ 64Z                                                    4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours laboratory per unit of supervised internship in an authorized office or agency (36 hours total for each unit of credit per quarter).*
Program of work experience and study in law enforcement, corrections/probation, private security or human services under the supervision of the instructor and agency personnel.

**ADMJ 69          Administration of Justice Field Trips    1 Unit**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours laboratory (36 hours total per quarter).*
This is a survey of current conditions in law enforcement, probation, corrections, and visits to adult or juvenile detention and correctional facilities in Northern California.

**ADMJ 73          Crime and Criminology                 4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Also listed as SOC 73. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
This course introduces the major types of crime and criminal behavior, examining demographics and measurement of crime, theories of causation and victimization, crime prevention, and crime control.

**ADMJ 74A        Interviewing, Interrogation and      4 Units**
**                        Crisis Intervention**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Also listed as PARA 74A and PSYC 74A. Students may enroll in only one department for credit.)*
*Four hours lecture (48 hours total per quarter).*
This course examines the theories, principles, and strategies of tactical and interpersonal communication necessary to interview victims, witnesses, and suspects. Students will explore crisis intervention strategies for victims and witnesses of crime, along with communication with individuals from diverse backgrounds with consideration to race, ethnicity, gender, age, and special needs.

**ADMJ 75          Principles and Procedures of the    4 Units**
**                        Justice System**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Also listed as PARA 75 and POLI 75. Students may enroll in only one department for credit.)*
*Four hours lecture (48 hours total per quarter).*
Procedures followed by law enforcement and courts in criminal cases; constitutional principles governing those procedures.

**ADMJ 78          Correctional Investigation            4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
History and development of probation and parole systems, including current practices at the federal, state and local levels. Investigation techniques needed for preparation of pre-sentence investigation reports, use of these reports in the courts, probation and parole supervision, and correctional institutions.

**ADMJ 84          Forensic Science                      4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
This course discusses techniques used by forensic scientists in identification, collection, comparison, and analysis of different types of physical evidence from crime scenes. The course is 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. This is a combined content lecture and skill-building crime lab utilization course.

**ADMJ 90A        Legal Aspects of Evidence (CP 4)    4 Units**
*Advisory: EWRT 211 and READ 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 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: contracts, constitutional law, corporations, criminal law, family law, property, torts, wills and estates.

# Animation

*(See Film and Television Production for course listings.)*

# 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 into 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 (EWRT 1AS and EWRT 1AT) 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 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 (EWRT 1AS and EWRT 1AT) 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 future prospects for humanity. As an honors course, the students will be expected to complete extra assignments to gain deeper insight into anthropology.

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**ANTH 3**      **Introduction to Archaeology**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 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 8**      **Medical Anthropology: Methods and**      **4 Units**
            **Practice**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
Medical anthropology seeks to understand how health, illness and healing practices are culturally constructed and mediated. Students will investigate global, cross-cultural and local issues related to health, sickness, healing, epidemiology, aging and dying from an applied and bio-cultural perspective, using anthropological theory and ethnographic fieldwork methods. Students will be exposed to diverse cultural interpretations of health, sickness and healing, the importance of viewing medical systems as social systems, understanding the socio-cultural context of medical decision making and therapy management, the principles of cultural competency, and the recurrent and ongoing problems of socioeconomic inequality and ecological disruptions that have an impact upon the differential distribution and treatment of human diseases.

**ANTH 12**      **Introduction to Applied Anthropology**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
Focuses on the use of Anthropological theories, perspectives and methods in the real world contexts of practice, problem solving and policy making. It is an introduction to the 5th field of anthropology, providing students with methods, theories and skills to help understand and solve issues arising as a result of culture change, culture conflict, modernization and globalization. Major areas of study will include medical anthropology, development anthropology, anthropology and healthcare, anthropology and advocacy, anthropology and law, organizational and business anthropology, educational anthropology, public anthropology and cultural resource management.

**ANTH 68**      **Anthropology and Museums**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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.

# Art

**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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course explores 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. The 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course explores 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**      **4 Units**
            **Prehistory Through Early Christianity**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course provides an introduction to the discipline of art history through an analysis of images, objects, and works of architecture produced from the prehistoric period of European history through approximately the year 600 C.E., including discussion of Stone Age, Mesopotamian, Egyptian, Greek, Etruscan, Roman, Early Christian, and Byzantine cultures.

**ARTS 2B**      **History of Art: Europe During the**      **4 Units**
            **Middle Ages and the Renaissance**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course introduces the discipline of art history through an analysis of images, objects, and works of architecture produced from approximately 600 through 1600 C.E., including discussion of Islamic and European cultures during the Middle Ages, and the art of the Renaissance (including Mannerism) in northern and southern Europe.

**ARTS 2C**      **History of Art: Europe from the**      **4 Units**
            **Baroque Period through Impressionism**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is an introduction to the discipline of art history through an analysis of images, objects, and works of architecture produced in Europe from c. 1600 through the 1880s, including a discussion of northern and southern European cultures.

**ARTS 2D**      **History of Art: Europe and the**      **4 Units**
            **United States from Post-Impressionism**
            **to the Present**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is an introduction to the discipline of art history through an analysis of images, objects, and works of architecture produced from the 1880s to the present by a diverse range of artists in Europe and the United States.

**ARTS 2F**      **History of Art: Multicultural Arts**      **4 Units**
            **in the United States**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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).*
This is a cross-cultural introduction to American art history, with an interdisciplinary analysis of diverse art forms generated by artists of color, including African Americans, Asian Americans, Native Americans, Latinx/Chicanx, 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 and political awareness. Traditions, values, and cultural expressions of diverse societies and their contributions to American visual culture are explored.

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

**A**

**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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as ASAM 40. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
This is a general introduction to art through major Asian artistic traditions. The course focuses on paintings, sculptures, ceramics, and architecture and their religious, cultural, historical, and social contexts. It will examine 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**     **4 Units**
                  **Mesoamerica and the Andes**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as INTL 21. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
A general introduction to the visual arts of the indigenous cultures of Mesoamerica, an area extending from northern Mexico through Central America, and the Andean region of South America. This course covers diverse art forms, including architecture, ceramics, weaving, painting and sculpture from antiquity to the present with emphasis upon the Pre-Columbian past. Topics addressing the religious, cultural, social, economic and political contexts of the art will be explored. Compares indigenous arts of the Americas to other world art traditions and assesses the contributions of indigenous cultures in a global context.

**ARTS 2J**     **History of Art: Arts of Africa,**     **4 Units**
                  **Oceania and Native North America**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as INTL 22. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
A general introduction to some of the many indigenous art traditions around the world, with emphasis placed upon traditional arts created for use in small-scale communities from the Americas, South Pacific region and Africa. Diverse art forms covered will include sculpture, painting, performance, ceramics, textiles and architecture from antiquity through the colonial period to the present. Topics addressing the religious, cultural, social, economic, and political contexts of the art, as well as the impact of colonialism and representations of indigenous arts in museums, will be explored. Compares arts from indigenous peoples to other world art traditions and assesses the contributions of indigenous arts in a global context.

**ARTS 2K**     **History of Art: Visual Arts of Islam**     **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as INTL 23. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
An exploration of the visual arts of Islam in a global context, including comparative analysis of the arts from diverse regions of the Islamic world. Examines artistic traditions of calligraphy, miniature painting, textiles, decorative arts and architecture from the beginnings of the Islamic faith to the present, and Islamic contributions to world art history. Includes interdisciplinary analysis of Islamic visual arts, emphasizing the cultural and religious contexts, as well as issues related to gender and social class. The impact of colonialism in the Islamic world and Orientalism in Europe and America are briefly explored.

**ARTS 2L**     **History of Art: Visual Arts of Africa**     **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as INTL 24. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
A general introduction to the visual arts of Africa, covering diverse art forms, including sculpture, painting, performance, ceramics, textiles and architecture from antiquity through the colonial period to the present. Topics addressing the religious, cultural, social, economic and political contexts of the art will be explored, as well as the impact of colonialism and the arts in postcolonial Africa. Compares arts from Africa to other world art traditions and assesses the contributions of African arts in a global context.

**ARTS 3TC**     **Women and Art**     **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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).*
This course examines the history of women in relation to society and the visual arts from prehistory to the present, across a range of cultures. Obstacles faced by women artists are explored, as well as contributions made by women artists, and art in which women serve as subject matter.

**ARTS 3TE**     **Today's Art Scene**     **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course focuses on the issues and challenges facing today's working artists. Topics include the roots of international contemporary art, technological influences on current art practices, and the essential components for assembling a dynamic portfolio presentation.

**ARTS 4A**     **Beginning Drawing**     **4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
*(This course is included in the Drawing Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This is an introductory course exploring the basic elements and principles of observational drawing, using traditional and experimental media.

**ARTS 4B**     **Intermediate Drawing**     **4 Units**
*Prerequisite: ARTS 4A.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This is an intermediate drawing course focusing on the creative interpretation of subject matter utilizing a variety of experimental, as well as traditional, techniques and media.

**ARTS 4C**     **Life Drawing**     **4 Units**
*Prerequisite: ARTS 4A.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This is the beginning drawing course that focuses on the representation and interpretation of the human figure; with attention to drawing from life.

**ARTS 4D**     **Representational Drawing**     **4 Units**
*Prerequisite: ARTS 4A.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This intermediate-level drawing course emphasizes observation and depiction of volume and perspective in a variety of drawing media.

**ARTS 8**     **Two-Dimensional Design**     **4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
This is a foundation course in the use of fundamental design elements and principles for two-dimensional art.

**ARTS 10A**     **Three-Dimensional Design**     **4 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
Introduction to design elements and principles as they apply to three-dimensional space and form. Idea explorations in various media including wire, clay, plaster, paper, wood metals and found objects.

**ARTS 10B**     **Intermediate Three-Dimensional Design**     **4 Units**
*Prerequisite: ARTS 10A.*
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
Further exploration and continuation of three-dimensional design focusing on individual projects. Use of various materials including wood, metals, plastic sheet and resin. Introduction of mold making and casting.

**ARTS 12**     **Design and Color**     **4 Units**
*Prerequisite: ARTS 8.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
This is a fundamental course that explores theory and color in the visual arts.

**ARTS 14A**     **Watercolor Painting I**     **4 Units**
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
A comprehensive introduction to transparent watercolor painting with emphasis on basic techniques.

**ARTS 14B**     **Watercolor Painting II**     **4 Units**
*Prerequisite: ARTS 14A.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
A continuation of ARTS 14A with further emphasis on basic transparent watercolor techniques that relate to the unusual characteristics of the medium, including the use of watercolor pencils.

**ARTS 14C      Watercolor Painting III                4 Units**
*Prerequisite: ARTS 14B.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
A continuation of ARTS 14B with emphasis on transparent and opaque watercolor techniques. Assignments in class will explore the aesthetic concerns of developing styles, ideas, content and self expression within the watercolor medium.

**ARTS 15A      Acrylic Painting I                4 Units**
*Prerequisite: ARTS 4A.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This is an introductory course in acrylic painting with an emphasis on basic techniques in both traditional and contemporary techniques that relate to the unusual characteristics of the medium.

**ARTS 15B      Acrylic Painting II                4 Units**
*Prerequisite: ARTS 15A.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This course is a continuation of ARTS 15A with further emphasis on basic techniques that relate to the unusual characteristics of the medium. Surfaces other than canvas will be introduced allowing for more varied results.

**ARTS 15C      Acrylic Painting III                4 Units**
*Prerequisite: ARTS 15B.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This course is a continuation of ARTS 15B with an emphasis on processes rather than techniques. Problems in class will relate to the aesthetic concerns of idea, content, and expression within the acrylic medium.

**ARTS 16A      Oil Painting I                4 Units**
*Prerequisite: ARTS 4A.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This is an introductory oil painting course that explores the application of the medium as it relates to the production of artwork through the translation of visual information, along with examining that preparation, concept, and craft are fundamental as applied to aesthetic concerns.

**ARTS 16B      Oil Painting II                4 Units**
*Prerequisite: ARTS 16A.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This course is a continuation of ARTS 16A with further emphasis on basic techniques that relate to the unusual characteristics of the medium. Conceptual studies, color theory, and aesthetics are primary concerns. Surfaces other than canvas will be required.

**ARTS 16C      Oil Painting III                4 Units**
*Prerequisite: ARTS 16B.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This course is a continuation of ARTS 16B with an emphasis on processes rather than techniques. Primary concerns include shaped canvasses, glazing techniques, ideas, expression, and aesthetics relating to the oil medium.

**ARTS 18A      Ceramics                4 Units**
*Advisory: EWRT 200 and READ 200, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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.

**ARTS 18B      Ceramics (Beginning Wheel Throwing)      4 Units**
*Prerequisite: ARTS 18A.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
*(This course is included in the Ceramic Construction Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Beginning techniques of throwing on the potter's wheel. Forming, shaping, trimming and decorating basic wheel thrown pieces. Use of stoneware firing techniques and processes in Ceramics (ARTS 18A).

**ARTS 18C      Ceramics (Intermediate Wheel Throwing)   4 Units**
*Prerequisite: ARTS 18B.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
*(This course is included in the Ceramic Construction Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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).

**ARTS 18D      Ceramics Hand Building                4 Units**
*Prerequisite: ARTS 18A.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
*(This course is included in the Ceramic Construction Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Ceramic construction techniques: use of pinch, coil and slab processes. Use of a variety of clay bodies and various firing techniques associated with functional and non-functional ceramic work.

**ARTS 18E      Ceramics (Advanced Wheel Throwing)      4 Units**
*Prerequisite: ARTS 18C.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
*(This course is included in the Ceramic Construction Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Advanced techniques of throwing on the potter's wheel. Introduction to combined forms and developing the vessel as an aesthetic object. Development of shapes, function and individual expression with clay.

**ARTS 19H      Ceramics Raku                4 Units**
*Prerequisite: ARTS 18A.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
*(This course is included in the Ceramic Surface Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Historical development, firing techniques, glaze, kilns and clay-bodies, for the Raku ceramic process.

**ARTS 19J      Ceramics Techniques                4 Units**
*Prerequisite: ARTS 18B.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
*(This course is included in the Ceramic Surface Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Techniques of hand building and wheel construction combined: experimental glazing and texturing treatments.

**ARTS 19K      Ceramics Decoration                4 Units**
*Prerequisite: ARTS 18A.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
*(This course is included in the Ceramic Surface Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Surface treatments and refinement used in the production of stoneware, earthenware and porcelain.

**ARTS 19M      Ceramics Low Fire                4 Units**
*Prerequisite: ARTS 18A.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
*(This course is included in the Ceramic Surface Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Survey of earthenware as a ceramic material. Use of surface decoration, glazes and ceramic kiln firing.

**ARTS 20      Ceramics Individual Laboratory      2 Units**
*Prerequisite: ARTS 18D or ARTS 18E.*
*Six hours laboratory (72 hours total per quarter).*
*(This course is included in the Ceramic Construction Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Supervised use of ceramic studio equipment for independent skill development; hand building, wheel throwing and kiln firing.

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

**A**

**ARTS 37A     Sculpture     4 Units**
*Advisory: EWRT 200 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Beginning sculpture, with an emphasis on idea development, visual investigation and the sculpture making process, including construction, carving, casting and mixed media.

**ARTS 37B     Intermediate Sculpture     4 Units**
*Prerequisite: ARTS 37A.*
*Advisory: EWRT 200 and READ 200, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Intermediate sculpture with emphasis on further formulation of idea development, visual investigation and its making process. Additional materials and processes will be examined.

**ARTS 37C     Advanced Sculpture     4 Units**
*Prerequisite: ARTS 37B.*
*Advisory: EWRT 200 and READ 200, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Advanced sculpture with an emphasis on idea development, visual investigation and the sculpture making process. Additional materials and processes will be examined and demonstrated.

**ARTS 53     Introduction to Graphic Design:     4 Units
Vector Illustration**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
This is a survey course for artists and designers, using digital software as a medium of artistic expression, and is an introduction of the fundamental concepts, practices, and theories of digital art and illustration production. Student projects will explore the creative and artistic potential of introductory software and experience how each one relates to today's artistic and digital media environment. Topics will include the integration of traditional design, color, and compositional principles with contemporary digital tools. Introductory use of Adobe Illustrator and Adobe InDesign.

**ARTS 54     Introduction to Graphic Design:     4 Units
Digital Imaging**
*(Formerly ARTS 53B.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
This is an introductory course in the use of art and design software for the computer, with an emphasis on the digital imaging creative process and the computer as a tool used by artists and designers today. Software used are Adobe Photoshop and Adobe After Effects.

**ARTS 55A     Graphic Design-Communication I     4 Units**
*Prerequisite: ARTS 53 or ARTS 54 or instructor approval.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
The analysis and interpretation of the elements and principles of design as applied to the practice of graphic design and visual communication. Emphasis on the design process from visualization to production. Software used includes Adobe Photoshop, Adobe Illustrator and Adobe InDesign.

**ARTS 55B     Graphic Design-Communication II     4 Units**
*Prerequisite: ARTS 55A or instructor approval.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
Continuation of the analysis and interpretation of the elements and principles of design as applied to the practice of graphic design and visual communication. Emphasis on the design process from visualization to production techniques. Software used includes Adobe Photoshop, Adobe Illustrator and Adobe InDesign.

**ARTS 55C     Graphic Design-Communication III:     4 Units
Production Techniques**
*Prerequisite: ARTS 55B or instructor approval.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
Intermediate course in the preparation of art for reproduction on the printed page, interactive media, and the World Wide Web. Emphasis is placed on specific studio procedures as well as computer production alternatives used by professionals in the field of graphic design. Software used includes Adobe Photoshop, Adobe Illustrator, Adobe InDesign and Adobe Flash.

**ARTS 56     Graphic Design: Page Layout for     4 Units
Digital Publishing**
*Prerequisite: ARTS 53.*
*Advisory: ARTS 55A.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
Analysis and interpretation of the elements and principles of design as applied to the practice of publication design. Emphasis on the design process as it relates to the use of the computer to create type and image in electronic publishing. Primary software presented is Adobe InDesign. Other programs used are Adobe Photoshop and Adobe Illustrator.

**ARTS 57     Graphic Design-Communication:     4 Units
Typography**
*Advisory: ARTS 53.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
Interpretation of the elements and principles of design as applied to the use of typography in graphic design. Emphasis on the integration and selection of letter forms and type styles as they relate to the production for the printed page, multimedia design and the World Wide Web. Software used includes Adobe Photoshop, Adobe Illustrator and Adobe InDesign.

**ARTS 58A     Furniture Design     4 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent; ARTS 10A.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
*(This course is included in the Industrial Design Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Beginning furniture design with emphasis on developing basic skills in design, construction and craftsmanship.

**ARTS 58B     Intermediate Furniture Design     4 Units**
*Prerequisite: ARTS 58A.*
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
*(This course is included in the Industrial Design Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Intermediate furniture design, with an emphasis on a broader range of skills in design, construction and craftsmanship.

**ARTS 58C     Advanced Furniture Design     4 Units**
*Prerequisite: ARTS 58B.*
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
*(This course is included in the Industrial Design Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Advanced furniture design, with an emphasis on individual projects and further development on skills in design, construction and craftsmanship.

**ARTS 63     Graphic Design: Portfolio and     4 Units
Business Practices**
*Prerequisite: ARTS 53.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; ARTS 54.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
This course is an introduction to the range of business practices used by artists and designers in the visual communications industry, with an emphasis on legal rights and issues as they relate to the professional artist/client relationship. Topics will include pricing and marketing, salaries and trade customs, standard contracts, and current art and design technology issues. Students will create portfolio materials for self promotion.

**ARTS 65     Graphic Design: UI/UX and the     4 Units
World Wide Web**
*Prerequisite: ARTS 53 or ARTS 54.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
Hands-on Web page design fundamentals with an emphasis on the creative integration of type and image as related to the World Wide Web. Topics will include: navigation software, site content and organization, site layout, scanning and importing imagery, file formats, grids, white space, visual hierarchy, corporate identity/branding and typography issues. The primary software programs used are Adobe Photoshop CS and Adobe Illustrator CS.

**ARTS 70     Viewing Bay Area Art Museums     1 Unit
and Galleries**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Three hours laboratory (36 hours total per quarter).*
*(This course is included in the Arts - Professional Practice Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Designed to develop skills in an art gallery/museum viewing and critical analysis of content of exhibits, collections and/or lectures.

**ARTS 71     Gallery and Exhibition Design     4 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; ARTS 4A or ARTS 8.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
*(This course is included in the Arts - Professional Practice Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*

146

The practical experience in all aspects of exhibition design and installation of art exhibits in galleries and museums. Emphasis on design theory and the evaluation and analysis of the communicative, cultural, aesthetic, technical factors involved in the production of exhibits.

**ARTS 72        Internship in Art        1 Unit**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; ARTS 1A, 4A, 8, 10A and 71.*
*Three hours laboratory (36 hours total per quarter).*
*(This course is included in the Arts - Professional Practice Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Directed professional experience in art museums/galleries, art businesses, and art in schools programs in the Bay Area that emphasize the application of skills and knowledge obtained in Gallery and Exhibition Design (ARTS 71), Beginning Drawing (ARTS 4A), Two-Dimensional Design (ARTS 8), and Three-Dimensional Design (ARTS 10A).

**ARTS 85        Graphic Design: Motion Graphics        4 Units**
*Prerequisite: ARTS 53 or ARTS 54.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
The analysis and interpretation of the art and design involved in the production of graphic design to be viewed in non-print media (film, CRT and LCD screens). The creative integration of "type" and "image" in motion is stressed through the use of directed laboratory exercises. Primary software presented is Adobe After Effects. Other software used includes Adobe Photoshop, Adobe Illustrator and Adobe Flash.

**ARTS 86        Graphic Design: Digital        4 Units
               Illustration Techniques**
*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.

# Asian American and Asian Studies

**ASAM 1        Asian American Experiences Past        4 Units
              to Present**
*(Formerly ICS 20.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is 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.

**ASAM 10        Contemporary Asian American        4 Units
               Communities**
*(Formerly ICS 22.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is an introduction to Asian American Studies and an exploration of 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.

**ASAM 11        Asian Americans and Racism        4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course focuses on the status and experiences of Asian Americans in U.S. history and in contemporary times to examine categories of race, processes of racialization, and forms of racial subordination. Using a comparative approach, the course centers on the roles of anti-blackness and white exclusivity in the imaginative and institutional constructions of Asian Americans. Key themes include: labor and global capitalism, Orientalism and imperialism, immigration and exclusion, gender and sexuality, citizenship and nation, "good"/"bad" minorities and assimilationist thinking.

**ASAM 12        Asian Americans and American Ideals,        4 Units
               Institutions and Politics**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
A survey of the historical and contemporary political experiences of Asian Americans and their pursuits for immigration, equality, citizenship, political identity, racial justice, homeland independence, cross-racial/ethnic coalition-building and incorporation into the U.S. political system will be covered in this course.

**ASAM 13        The U.S. and Asia        4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course examines how the relationship between the U.S. and Asia has shaped the experiences of Asians in the U.S. The course focuses on war and militarism, international political and economic relations, and globalization to analyze their impact on migration, racial politics, economic practices, identity, community formation, sexuality and activism among Asians in the U.S. The course explores historical and contemporary examples from the 19th century to the present.

**ASAM 20        Asian Pacific American Literature        4 Units**
*(Formerly ICS 24.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as ELIT 24. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
This course is an introduction to Asian Pacific American literature. Through readings in twentieth and twenty-first century works, students will explore and analyze 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.

**ASAM 21        Asian Pacific Americans Make Culture        4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
A survey and analysis of Asian American and Pacific Islander (AAPI) media, which includes media that both represent AAPIs and is produced by AAPIs within a US context will be covered. It explores the politics, economics, and competing ideologies of cultural representation among the AAPI community. This interdisciplinary course will cover a wide variety of media, such as film, television, music, literature, journalism, digital media, fine art, comics, and illustration.

**ASAM 30        Filipinx American History and Culture        4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This introduction to historical and contemporary Filipinx American experiences will survey social, political, and cultural influences through a framework of decolonization. Emphasis will be placed on the role of cultural expression in movements seeking social justice for Filipinx American communities.

**ASAM 31        Introduction to Pacific Islander        4 Units
               History and Culture**
*(Formerly ICS 21.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is 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, Polynesia, etc.) and intra-group challenges within today's ethnic communities.

**ASAM 32        Vietnamese Literature (from Tradition        4 Units
               to Asian American Identity)**
*(Formerly INTL 11.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is an introduction to the humanities through a global perspective on Vietnamese and Vietnamese American literature. Students will explore 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, and impacts of migration. Students will also develop a historical and aesthetic understanding of Vietnamese and Vietnamese American creative expressions, with emphasis on native development and international influences.

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

**A**

### ASAM 40      History of Art: Arts of Asia      4 Units
*(Formerly INTL 10.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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).*
This is a general introduction to art through major Asian artistic traditions. The course focuses on paintings, sculptures, ceramics, and architecture and their religious, cultural, historical, and social contexts. It will examine arts from China, Japan, India, Central Asia, Himalayas, and Southeast Asia and assesses the contributions of Asian art in a global context.

### ASAM 41      Introduction to Korean Popular Culture      4 Units
*(Formerly INTL 13.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as HUMI 13. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
This course is 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. It examines the 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.

### ASAM 42A      History of Asian Civilization:      4 Units
China and Japan (to the 19th Century)
*(Formerly INTL 19A.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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).*
This is an introductory history course exploring the development of Chinese and Japanese civilizations from their origins through the 18th century.

### ASAM 42B      History of Asian Civilization:      4 Units
China and Japan (19th - 21st Centuries)
*(Formerly INTL 19B.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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).*
This is an introductory history course exploring modern China and Japan from the 19th to the 21st centuries.

### ASAM 50      Civic Leadership for Community      4 Units
Empowerment
*(Formerly ICS 55.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is an introduction to Intercultural Studies through the principles of civic leadership. The course will explore community empowerment as idea and practice in areas of public service, nonprofit work, and electoral politics. It will also examine the 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 the Silicon Valley. Contemporary social issues through local examples in the Silicon Valley will be analyzed. Students will engage in community-focused problem solving, personal reflection, and interpersonal and organizational leadership development.

# 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Five hours lecture (60 hours total per quarter).*
This course analyzes the physical principles, logic, and development of solar system astronomy from ancient times through the present. It also examines 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. The course 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Five hours lecture (60 hours total per quarter).*
This course analyzes the physical principles, logic, and development of stellar astronomy from ancient times to the present, with an 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 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 Apprenticeship

### APRN 50A      Introduction to Automotive Principles      4 Units
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*Four hours lecture (48 hours total per quarter).*
A selective study of the automobile's engine systems. Knowledge and skills that are necessary for basic repair, maintenance, and troubleshooting of today's engine systems. This course may be used to fulfill the prerequisite to the Automotive Technology Program.

### APRN 50B      Applied Automotive Principles      2 Units
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

### APRN 51A      Introduction to Automotive      4 Units
Principles - Chassis Systems
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

### APRN 51B      Applications of Automotive      2 Units
Principles - Chassis Systems
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

### APRN 53A      Automotive Mechanisms      4 Units
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

### APRN 60      Automotive Electrical Systems      9 Units
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*Nine hours lecture (108 hours total per quarter).*
Principles of electricity, electronics, cranking and charging systems. Testing, diagnosis and repair of these systems.

### APRN 60A      Electrical Schematic Diagnosis      4 1/2 Units
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

**APRN 60B        Automotive Electronics        4 1/2 Units**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

**APRN 60C        Automotive Ignition, Fuel and        9 Units**
**                Emission Systems**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

**APRN 60D        Ignition Analysis and Oscilloscope        4 1/2 Units**
**                Diagnosis**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

**APRN 60E        Automotive Fuel Injection        4 1/2 Units**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

**APRN 60F        No-Start Diagnosis        4 1/2 Units**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

**APRN 60G        Advanced Scan Tool Diagnosis        4 1/2 Units**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

**APRN 60H        Advanced Drivability and Onboard        4 1/2 Units**
**                Diagnostics**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

**APRN 60J        Advanced Lab Scope and Waveform        4 1/2 Units**
**                Diagnosis**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

**APRN 60K        Automotive Body Electrical Systems        4 1/2 Units**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*

*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.

**APRN 60N        Hybrid Vehicle Safety and Maintenance        2 Units**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

**APRN 61A        Automotive Brake Systems        4 1/2 Units**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*Four and one-half hours lecture (54 hours total per quarter).*
Operation of automotive brake systems. Repair, maintenance and troubleshooting.

**APRN 61B        Electronically Controlled Brake        4 1/2 Units**
**                Systems**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*Four and one-half hours lecture (54 hours total per quarter).*
Computer controlled automotive brake systems, including service, maintenance, troubleshooting and repair procedures.

**APRN 62A        Automotive Suspension, Steering        9 Units**
**                and Alignment**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*Nine hours lecture (108 hours total per quarter).*
Operation of automotive suspension, steering and alignment systems. Overview of maintenance, repair and troubleshooting procedures.

**APRN 62B        Advanced Wheel Alignment        9 Units**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*Nine hours lecture (108 hours total per quarter).*
Advanced study of wheel alignment systems. Emphasis is placed on diagnostic inspection and repair procedures.

**APRN 63        Automatic Transmissions and Transaxles        9 Units**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

**APRN 63A        Advanced Manual Drive Train        9 Units**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

**APRN 63D        Transmission Diagnostic and Repair        4 1/2 Units**
**                Techniques**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

**A**

**APRN 64    Automotive Machining and Engine Repair  9 Units**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

**APRN 64HP    High Performance Engine Repair    9 Units**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

**APRN 65P    Smog Inspector - Level 1 Training    7 Units**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*Corequisite: APRN 65W.*
*Advisory: EWRT 211 and READ 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).

**APRN 65W    Smog Inspector - Level 2 Training    2 1/2 Units**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*Corequisite: APRN 65P.*
*Advisory: EWRT 211 and READ 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.

**APRN 66    Automotive Air Conditioning    4 1/2 Units**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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.

**APRN 67A    Hybrid Electrical Vehicles    4 1/2 Units**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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 the 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.

**APRN 67B    Plug-In Electric Vehicle Technology    4 1/2 Units**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*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 onboard charging systems. charging stations, photovoltaic systems, and electrical grid charging. Operation of onboard 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.

**APRN 67G    Gaseous Fuels    4 1/2 Units**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*

*Four and one-half hours lecture (54 hours total per quarter).*
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 powers over four million vehicles. Compressed Natural Gas, 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.

**APRN 67J    Introduction to Automotive and    4 1/2 Units
                Light Truck Diesel Systems**
*Prerequisite: Open only to apprentices in the Automotive Technologies Apprenticeship Program (an approved program by the Division of Apprenticeship Standards).*
*Four and one-half hours lecture (54 hours total per quarter).*
As of January 2010, California state law required light duty diesel powered vehicles to be included in the smog check program. Diesel's higher efficiency is moving these vehicle's highway mileage to over 40 miles per gallon. Chevrolet, Jeep and Mazda are all adding diesel powered vehicles into their new car line-up. This course will consist of lectures and laboratory demonstrations. Providing our students with the necessary skills to maintain and repair light duty diesel vehicles. Diesel training will give students new abilities that are required to be successful in their careers in the automotive industry.

# Automotive Technology

**AUTO 50A    Introduction to Automotive Principles    4 Units**
*Advisory: EWRT 211 and READ 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 that are necessary for basic repair, maintenance, and troubleshooting of today's engine systems. This course 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 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    4 Units
                Principles - Chassis Systems**
*Advisory: EWRT 211 and READ 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    2 Units
                Principles - Chassis Systems**
*Advisory: EWRT 211 and READ 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 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 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    2 Units
                the Automotive Industry**
*Advisory: EWRT 211 and READ 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 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 1/2 Units**
*Advisory: EWRT 211 and READ 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 1/2 Units**
*Advisory: EWRT 211 and READ 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          9 Units**
**                    Emission Systems**
*Advisory: EWRT 211 and READ 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          4 1/2 Units**
**                    Diagnosis**
*Advisory: EWRT 211 and READ 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 1/2 Units**
*Advisory: EWRT 211 and READ 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 1/2 Units**
*Advisory: EWRT 211 and READ 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 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A, 50B, 60, 60A, 60B, 60C, 60D and 60E.*
*Four and one-half hours lecture (54 hours total per quarter).*
Advanced drivability diagnosis using a scan tool. Using the onboard diagnostic capabilities of vehicles built since 1980. Advanced scan data analysis. Using PC capabilities to store and analyze diagnostic information. Preparation for Automotive Service Excellence (ASE) examination in Areas A6, A8, and L1.

**AUTO 60H          Advanced Drivability and Onboard          4 1/2 Units**
**                    Diagnostics**
*Advisory: EWRT 211 and READ 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          4 1/2 Units**
**                    Diagnosis**
*Advisory: EWRT 211 and READ 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 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 60A and 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 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 1/2 Units**
*Advisory: EWRT 211 and READ 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          4 1/2 Units**
**                    Systems**
*Advisory: EWRT 211 and READ 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          9 Units**
**                    Alignment**
*Advisory: EWRT 211 and READ 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 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          9 Units**
**                    Transaxles**
*Advisory: EWRT 211 and READ 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 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 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          4 1/2 Units**
**                    Techniques**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A and AUTO 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.

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

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**AUTO 64**    **Automotive Machining and**    **9 Units**
                              **Engine Repair**
*Advisory: EWRT 211 and READ 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 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 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 1/2 Units**
*Corequisite: AUTO 65P.*
*Advisory: EWRT 211 and READ 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 1/2 Units**
*Advisory: EWRT 211 and READ 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 1/2 Units**
*Advisory: EWRT 211 and READ 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 the 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 1/2 Units**
*Advisory: EWRT 211 and READ 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 onboard charging systems. charging stations, photovoltaic systems, and electrical grid charging. Operation of onboard smart charging systems. Economics of electric transportation, utility company systems, and existing options such as off-peak charging. Understanding the use of electric power as applicable to extended range electric vehicle transportation. Utilization of applicable diagnostic and service equipment. Electric vehicle theory of operation. Advantages of an electric drive train. Electric vehicle history and current status of plug-in electric vehicle technologies. Career possibilities in the electric transportation industry. Safety procedures and maintenance of plug-in electric vehicles.

**AUTO 67G**    **Gaseous Fuels**    **4 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four and one-half hours lecture (54 hours total per quarter).*
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.

**AUTO 67J**    **Introduction to Automotive and**    **4 1/2 Units**
                              **Light Truck Diesel Systems**
*(Formerly AUTO 64G.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A and AUTO 50B.*
*Four and one-half hours lecture (54 hours total per quarter).*
As of January 2010, California state law required light duty diesel powered vehicles to be included in the smog check program. Diesel's higher efficiency is moving these vehicle's 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.

**AUTO 69Y**    **Smog Check Update**    **1 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; current CA Smog Check License.*
*One and one-half hours lecture (18 hours total per quarter).*
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.

**AUTO 91A**    **Automotive Brake Systems**    **6 Units**
*Prerequisite: Approved Automotive Technology Course Sequence Contract.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A and AUTO 50B.*
*Four hours lecture, six hours laboratory (120 hours total per quarter).*
Repair, maintenance and troubleshooting of automotive braking systems.

**AUTO 92A**    **Automotive Steering and Suspension**    **6 Units**
*Prerequisite: Approved Automotive Technology Course Sequence Contract.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 51A and AUTO 51B.*
*Four hours lecture, six hours laboratory (120 hours total per quarter).*
Repair, maintenance and troubleshooting of suspension and steering systems.

**AUTO 92B**    **Automotive Alignment**    **6 Units**
*Prerequisite: Approved Automotive Technology Course Sequence Contract.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four hours lecture, six hours laboratory (120 hours total per quarter).*
Automotive alignment systems, including repair, maintenance and troubleshooting. Service and repair procedures.

**AUTO 92C**    **Automotive Electronic Chassis**    **2 Units**
                              **Controls**
*Prerequisite: Approved Automotive Technology Course Sequence Contract.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*One and one-half hours lecture, one and one-half hours laboratory (36 hours total per quarter).*
Computer controlled automotive suspension and steering systems, including repair, maintenance, troubleshooting, and service procedures.

**AUTO 93A**    **Automotive Final Drive Train**    **6 Units**
*Prerequisite: Approved Automotive Technology Course Sequence Contract.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four hours lecture, six hours laboratory (120 hours total per quarter).*
Components of the final drive train including design features and service techniques.

**AUTO 93B**    **Standard Transaxles**    **2 Units**
*Prerequisite: Approved Automotive Technology Course Sequence Contract.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*One and one-half hours lecture, one and one-half hours laboratory (36 hours total per quarter).*
Standard transaxles: power flow, service requirements and repair procedures.

**AUTO 93C**    **Automatic Transmissions**    **6 Units**
*Prerequisite: Approved Automotive Technology Course Sequence Contract.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four hours lecture, six hours laboratory (120 hours total per quarter).*
Operation of automatic transmissions including torque converters, hydraulic control, planetary gear train, clutch and band operation. Inspection and repair procedures for automatic transmissions.

**AUTO 93D**    **Automatic Transaxles**    **2 Units**
*Prerequisite: Approved Automotive Technology Course Sequence Contract.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*One and one-half hours lecture, one and one-half hours laboratory (36 hours total per quarter).*
A detailed study of automatic transaxles. Power flow, service requirements and repair procedures will be covered.

**AUTO 93E**  **Diagnostic Techniques**  **1 1/2 Units**
*Prerequisite: Approved Automotive Technology Course Sequence Contract.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*One hour lecture, one and one-half hours laboratory (30 hours total per quarter).*
Diagnostic techniques for problem-solving in the automotive and light-duty truck powertrain.

**AUTO 93F**  **Automotive Transmission Service**  **6 Units**
*Prerequisite: Approved Automotive Technology Course Sequence Contract.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four hours lecture, six hours laboratory (120 hours total per quarter).*
Operation of rear axles, transfer cases, clutches, automatic and standard transmissions, and transaxles. Diagnostic, inspection and repair procedures for these powertrain components.

**AUTO 94A**  **Principles of Four Stroke Cycle Gas**  **6 Units**
  **and Diesel Engines**
*Prerequisite: Approved Automotive Technology Course Sequence Contract.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four hours lecture, six hours laboratory (120 hours total per quarter).*
Shop operations specific to engine repair and rebuilding including safety and hazardous waste management. Emphasis on theory, diagnosis, disassembly, cleaning, inspection and failure analysis.

**AUTO 94B**  **Automotive Machining and**  **6 Units**
  **Engine Service**
*Prerequisite: Approved Automotive Technology Course Sequence Contract.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four hours lecture, six hours laboratory (120 hours total per quarter).*
Reconditioning cylinder heads and related valve train components including crack detection, repair, testing and assembly. Resurfacing cylinder heads.

**AUTO 94C**  **Automotive Machining and**  **6 Units**
  **Engine Service**
*Prerequisite: AUTO 94A.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four hours lecture, six hours laboratory (120 hours total per quarter).*
Reconditioning engine short block assemblies and components including balancing, assembly and testing.

**AUTO 94D**  **Automotive Machining and**  **6 Units**
  **Engine Service**
*Prerequisite: AUTO 94A.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four hours lecture, six hours laboratory (120 hours total per quarter).*
Precision and performance engine preparation with emphasis on improvements in volumetric efficiency. Includes selection and matching of components for maximum efficiency within mandated emissions requirements.

**AUTO 94E**  **Automotive Machining and**  **6 Units**
  **Engine Service**
*Prerequisite: AUTO 94C.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four hours lecture, six hours laboratory (120 hours total per quarter).*
Complete automotive machine shop practice including engine repair, assembly, testing and installation. Researching service and installation procedures and parts and labor estimating.

**AUTO 94F**  **Automotive Machining and**  **6 Units**
  **Engine Service**
*Prerequisite: AUTO 94C.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four hours lecture, six hours laboratory (120 hours total per quarter).*
Practice and skill development with emphasis on precision and productivity in rebuilding, servicing and installing engines. Research and prepare equipment operation and maintenance instructions.

**AUTO 99A**  **Automotive Electricity, Battery and**  **7 Units**
  **Cranking Systems**
*Prerequisite: Approved Automotive Technology Course Sequence Contract.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four hours lecture, nine hours laboratory (156 hours total per quarter).*
Automotive electricity including the electron theory, fundamentals of circuit construction and interpretation, principles of magnetism as applied to electric motors, relays and coils. Diagnosis, troubleshooting and servicing of automotive battery and cranking systems including system repair procedures. Developing skills in the use of test equipment including the DVOM and electrical load testing tools for the analysis and diagnosis of these types of electrical systems.

**AUTO 99B**  **Automotive Charging, Ignition and**  **7 Units**
  **Accessory Systems**
*Prerequisite: Approved Automotive Technology Course Sequence Contract.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four hours lecture, nine hours laboratory (156 hours total per quarter).*
The fundamentals of automotive electronic devices as they apply to the automotive charging and ignition systems. Emphasis on diagnosis of these systems using test instruments including the oscilloscope. Introduction to automotive accessory systems including wiring and repair techniques. Skill development in the understanding of the electrical wiring diagram networks as provided by manufacturers.

**AUTO 99C**  **Introduction to Engine Performance**  **7 Units**
  **Systems**
*Prerequisite: AUTO 99A.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four hours lecture, nine hours laboratory (156 hours total per quarter).*
Electronically controlled automotive systems. Fundamentals of automotive microprocessors and automotive onboard computers. Testing techniques for system input and output devices. Diagnosis, troubleshooting, and repairing the automotive fuel supply system including carburetion and feedback carburetion. Diagnosis, troubleshooting, and repair techniques for no-start conditions. Procedure development for analyzing and repairing common problems of fuel, ignition, electrical and basic engine mechanical systems which affect engine performance of the automobile.

**AUTO 99D**  **Intermediate Engine Performance**  **7 Units**
  **Systems**
*Prerequisite: AUTO 99A.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four hours lecture, nine hours laboratory (156 hours total per quarter).*
Electronically controlled engine performance systems. Diagnosing, troubleshooting and repairing the automotive fuel-injection systems of domestic automobiles. Testing techniques for system input and output devices using automotive scanners and oscilloscopes.

**AUTO 99E**  **Basic Engine Performance Diagnostic**  **7 Units**
  **Procedures**
*Prerequisite: AUTO 99C.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four hours lecture, nine hours laboratory (156 hours total per quarter).*
Automotive technician training program to include each system which aids in increasing fuel economy and in the reduction of emissions and pollutants from the automobile. Diagnosing and troubleshooting the systems controlling automotive performance and drive-ability.

**AUTO 99F**  **Intermediate Engine Performance**  **7 Units**
  **Diagnostic Procedures**
*Prerequisite: AUTO 99C.*
*Advisory: EWRT 211 and READ 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.

**AUTO 350A**  **Introduction to Automotive Principles**  **0 Units**
*(This is a noncredit CTE course, which can lead to and only be applied to a non-transcriptable certificate.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four hours lecture (48 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
A selective study of the automobile's engine systems. Knowledge and skills that are necessary for basic repair, maintenance, and troubleshooting of today's engine systems. This course may be used to fulfill the prerequisite to the Automotive Technology Program.

**AUTO 350B**  **Applied Automotive Principles**  **0 Units**
*(This is a noncredit CTE course, which can lead to and only be applied to a non-transcriptable certificate.)*
*Advisory: EWRT 211 and READ 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 student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
Basic experiences in automotive repair and maintenance as related to the engine and its supporting systems.

**AUTO 351A**  **Introduction to Automotive**  **0 Units**
  **Principles - Chassis Systems**
*(This is a noncredit CTE course, which can lead to and only be applied to a non-transcriptable certificate.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four hours lecture (48 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
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.

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**AUTO 351B**   **Applications of Automotive**   **0 Units**
**Principles - Chassis Systems**
*(This is a noncredit CTE course, which can lead to and only be applied to a non-transcriptable certificate.)*
*Advisory: EWRT 211 and READ 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 student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
Basic experiences in automotive repair and maintenance as related to suspension, steering, braking, and drive line components.

**AUTO 353A**   **Automotive Mechanisms**   **0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course covers the application of physical principles to the operation of mechanical and hydraulic systems, using an applied physics technique.

**AUTO 357A**   **Career Research and Employment in**   **0 Units**
**the Automotive Industry**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours lecture (24 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This career research course covers automotive industry job search, applications, resumes, employer-employee relationships, and job interviews.

**AUTO 360**   **Automotive Electrical Systems**   **0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 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 student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
Principles of electricity, electronics, cranking and charging systems. Testing, diagnosis and repair of these systems.

**AUTO 360A**   **Electrical Schematic Diagnosis**   **0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 360.*
*Four and one-half hours lecture (54 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
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 360B**   **Automotive Electronics**   **0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 350A, 350B, 360 and 360A.*
*Four and one-half hours lecture (54 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
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 360C**   **Automotive Ignition, Fuel and**   **0 Units**
**Emission Systems**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 350A, 350B, 360, 360A and 360B.*
*Nine hours lecture (108 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course provides an introduction to components, subsystems and functions of ignition, fuel delivery, carburetor and fuel injection systems (engine management). It also includes an introduction to automotive emission controls, basic diagnosis, service, repair procedures and preparation for Automotive Service Excellence (ASE) examination in Areas A6, A8, and L1.

**AUTO 360D**   **Ignition Analysis and Oscilloscope**   **0 Units**
**Diagnosis**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 350A, 350B, 360, 360A and 360B and 360C.*
*Four and one-half hours lecture (54 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course covers the ignition system principles of operation and diagnosis, the use of electronic test equipment in ignition system diagnosis, and preparation for Automotive Service Excellence (ASE) certification examinations in Areas A6, A8, and L1.

**AUTO 360E**   **Automotive Fuel Injection**   **0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 350A, 350B, 360, 360A, 360B, 360C and 360D.*
*Four and one-half hours lecture (54 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course covers the 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, and preparation for Automotive Service Excellence (ASE) examination in Areas A8 and L1.

**AUTO 360F**   **No-Start Diagnosis**   **0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 350A, 350B, 360, 360A, 360B, 360C, 360D and 360E.*
*Four and one-half hours lecture (54 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
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 360G**   **Advanced Scan Tool Diagnosis**   **0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 350A, 350B, 360, 360A, 360B, 360C, 360D and 360E.*
*Four and one-half hours lecture (54 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
Advanced drivability diagnosis using a scan tool. Using the onboard diagnostic capabilities of vehicles built since 1980. Advanced scan data analysis. Using PC capabilities to store and analyze diagnostic information. Preparation for Automotive Service Excellence (ASE) examination in Areas A6, A8, and L1.

**AUTO 360H**   **Advanced Drivability and Onboard**   **0 Units**
**Diagnostics**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 350A, 350B, 360, 360A, 360B, 360C, 360D and 360E.*
*Four and one-half hours lecture (54 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course is a survey of onboard diagnostic systems from 1980 to the present, including advanced electronic diagnostic procedures using an automotive scan tool, and preparation for Automotive Service Excellence (ASE) examination in Areas A6, A8, and L1.

**AUTO 360J**   **Advanced Lab Scope and Waveform**   **0 Units**
**Diagnosis**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 350A, 350B, 360, 360C, 360D, 360E, 360F and 360G.*
*Four and one-half hours lecture (54 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course covers the 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; and preparation for Automotive Service Excellence (ASE) examination in Areas A6, A8, and L1.

**AUTO 360K**   **Automotive Body Electrical Systems**   **0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 360A and AUTO 360B.*
*Four and one-half hours lecture (54 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*

This course will focus on the theory of operation for body electrical, electronic, and electromechanical systems. Students will gain an understanding of 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; and preparation for Automotive Service Excellence (ASE) examination in Area A6.

**AUTO 360N      Hybrid Vehicle Safety and Maintenance      0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 360A and AUTO 360B.*
*Two hours lecture (24 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course 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 361A      Automotive Brake Systems      0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 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 student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
Operation of automotive brake systems. Repair, maintenance and troubleshooting.

**AUTO 361B      Electronically Controlled Brake Systems      0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 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 student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
Computer controlled automotive brake systems, including service, maintenance, troubleshooting and repair procedures.

**AUTO 362A      Automotive Suspension, Steering      0 Units**
**and Alignment**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 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 student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
Operation of automotive suspension, steering and alignment systems. Overview of maintenance, repair and troubleshooting procedures.

**AUTO 362B      Advanced Wheel Alignment      0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 362A.*
*Nine hours lecture (108 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course focuses on the advanced study of wheel alignment systems. Emphasis is placed on diagnostic inspection and repair procedures.

**AUTO 363      Automatic Transmissions and Transaxles      0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 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 student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course covers the principles of operation, service and repair procedures for automatic transmissions and transaxles. Hydraulic and mechanical system operation; power flow and component repair techniques; and preparation for Automotive Service Excellence (ASE) certification examination in Area A2.

**AUTO 363A      Advanced Manual Drive Train      0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 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 student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course covers the 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. Students will also learn service and repair procedures, product problem discussions

and demonstrations, and preparation for Automotive Service Excellence (ASE) certification examination in Area A3.

**AUTO 363D      Transmission Diagnostic and Repair      0 Units**
**Techniques**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 350A and AUTO 350B.*
*Four and one-half hours lecture (54 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course covers diagnostic and repair techniques for automatic transmissions and transaxles, with emphasis on the development of diagnostic procedures and repair techniques, and preparation for Automotive Service Excellence (ASE) certification examinations in Areas A2 and A3.

**AUTO 364      Automotive Machining and Engine Repair  0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 350B.*
*Nine hours lecture (108 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course covers the repair and rebuilding of engine cylinder heads and block components, engine assembly, and testing. The course also includes theory, diagnosis, disassembly, cleaning, inspection and failure analysis, and preparation for Automotive Service Excellence (ASE) examinations for Areas A1 and M1, M2 and M3.

**AUTO 364H      High Performance Engine Preparation      0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 364.*
*Nine hours lecture (108 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course covers precision and performance engine preparation, including selection and matching of engine and valve train components for maximum efficiency and output.

**AUTO 365P      Smog Inspector - Level 1 Training      0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Corequisite: AUTO 365W.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Seven hours lecture (84 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
Automotive technician training program for California's Smog inspection program. Course content is mandated by the Bureau of Automotive Repair (BAR).

**AUTO 365W      Smog Inspector - Level 2 Training      0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Corequisite: AUTO 365P.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Two and one-half hours lecture (30 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
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 366      Automotive Air Conditioning      0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four and one-half hours lecture (54 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course covers the operation and service of automotive air conditioning refrigeration and electrical control systems. Includes retrofitting, with an emphasis on diagnosis and repair of systems, and preparation for Automotive Service Excellence (ASE) certification examination in Area A7.

**AUTO 367A      Hybrid Electric Vehicles      0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 360A, 360B and 360G.*
*Four and one-half hours lecture (54 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course covers 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; and the relationship of internal combustion engines and motor generators. It also includes the function and design of regenerative braking systems; operation of hybrid transmission systems and power splitting devices; application of the high expansion ratio cycle; 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; and maintenance and servicing of hybrid vehicles.

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

**A**
**B**

**AUTO 367B** **Plug-In Electric Vehicle Technology** **0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 367A.*
*Four and one-half hours lecture (54 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course covers the functions of plug-in electric vehicles and hybrid extended-range electric vehicles; operating characteristics of high voltage onboard charging systems; charging stations, photovoltaic systems, and electrical grid charging. The course also covers the operation of onboard smart charging systems; economics of electric transportation, utility company systems, and existing options such as off-peak charging. Students will gain an understanding of the use of electric power as applicable to extended-range electric vehicle transportation; utilization of applicable diagnostic and service equipment; the 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; and safety procedures and maintenance of plug-in electric vehicles.

**AUTO 367G** **Gaseous Fuels** **0 Units**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent.*
*Four and one-half hours lecture (54 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course covers how gaseous fuels include propane, compressed natural gas, liquefied natural gas and hydrogen, and how propane has been used as an engine fuel for over 80-years. Students will learn that after gasoline and diesel, propane is the third most popular fuel and is used to power over four million vehicles. The course will also cover how compressed natural gas and liquefied natural gas are being used in many fleet applications and have a large pipeline distribution system; how hydrogen is used in a fuel cell to create electricity and expels water; how two major automobile manufacturers have introduced hydrogen-powered cars; and how 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.

**AUTO 367J** **Introduction to Automotive and** **0 Units**
**Light Truck Diesel Systems**
*(This is a noncredit, stand-alone CTE course.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 212 or equivalent; AUTO 50A and AUTO 50B.*
*Four and one-half hours lecture (54 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
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 vehicle's 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.

# Biology

**BIOL 6A** **Form and Function in the** **6 Units**
**Biological World**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in BIOL 6AH.)*
*Prerequisite: CHEM 1A or CHEM 1AH or CHEM 25 with a grade of C or better; or satisfactory score on the Chemistry Placement Exam.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture, six hours laboratory (120 hours total per quarter).*
This course is an introduction to biology and scientific methods for students beginning the biology major series. It covers the structure and physiological processes of living organisms, with an emphasis on plants and animals.

**BIOL 6AH** **Form and Function in the Biological** **6 Units**
**World - HONORS**
*(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 CHEM 1AH or CHEM 25 with a grade of C or better; or satisfactory score on the Chemistry Placement Exam.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture, six hours laboratory (120 hours total per quarter).*
This course is an introduction to biology and scientific methods for students beginning the biology major series. It covers the structure and physiological processes of living organisms, with an emphasis on plants and animals. Because this is an honors course, students will be expected to complete extra assignments to gain a deeper insight into biological form and function.

**BIOL 6B** **Cell and Molecular Biology** **6 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: BIOL 6A or BIOL 6AH.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5; MATH 114 or equivalent.*
*Four hours lecture, six hours laboratory (120 hours total per quarter).*
This course is an introduction to cellular structure and function, biological molecules, bioenergetics, molecular genetics, and cell proliferation. The laboratory includes extensive hands-on experimentation in molecular biology.

**BIOL 6C** **Ecology and Evolution** **6 Units**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in BIOL 6CH.)*
*Prerequisite: BIOL 6A (or BIOL 6AH) and BIOL 6B, with a grade of C or better.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5; MATH 114 or equivalent.*
*Four hours lecture, six hours laboratory (120 hours total per quarter).*
This course covers the principles of ecology and evolution, including the ecology of populations, communities, ecosystems and biomes, as well as the evolution of populations and the origin of species and higher taxa. The laboratory portion of the course includes a research project designed, researched and presented by students.

**BIOL 6CH** **Ecology and Evolution - HONORS** **6 Units**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in BIOL 6C.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Prerequisite: BIOL 6A (or BIOL 6AH) and BIOL 6B, with a grade of C or better.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5; MATH 114 or equivalent.*
*Four hours lecture, six hours laboratory (120 hours total per quarter).*
This course covers the principles of ecology and evolution, including the ecology of populations, communities, ecosystems and biomes, as well as the 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. Because this is an honors course, students will be expected to complete extra assignments to gain a deeper insight into ecology and evolution.

**BIOL 10** **Introductory Biology** **5 Units**
*(Not open to students with credit in 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture, three hours laboratory (84 hours total per quarter).*
An introduction to biology as a branch of the biological sciences and to its basic unifying principles, with selected application to the scientific method, evolutionary concepts, genetic modification, biotechnology, ecology, ecological crises and human impacts.

**BIOL 10H** **Introductory Biology - HONORS** **5 Units**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in BIOL 6A, 6AH, 6B, 6C, 6CH, 10 or equivalent.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture, three hours laboratory (84 hours total per quarter).*
An introduction to biology as a branch of the biological sciences and to its basic unifying principles, with selected application to the scientific method, evolutionary concepts, genetic modification, biotechnology, ecology, ecological crises and human impacts. Honors students will complete additional research that will broaden and/or deepen their understanding of biology beyond the expectations of the regular course section.

**BIOL 11** **Human Biology** **5 Units**
*(Not open to students with credit in 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture, three hours laboratory (84 hours total per quarter).*
A general introduction to biology and its principles, with a focus on the human body, public health issues, evolution, and the interactions of humans with the environment. The course will introduce the unifying principles of biology, examine the evolution, anatomy, physiology, and variations of the human body, and the physical and societal roots of disease. It will also emphasize the ways human health concerns impact broader social issues surrounding equity, and diversity, and the ongoing impacts of human-related environmental alterations.

**BIOL 13** **Marine Biology** **5 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture, three hours laboratory (84 hours total per quarter).*
This course is a general survey of the ecosystems and diversity of life in the marine environment. It will introduce 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. This course compares the ecology of the major marine ecosystems including the epipelagic, deep sea, hydrothermal vents, intertidal, estuaries, coral reefs and polar regions. Major aspects of evolutionary, cell and molecular theory, and the scientific method are addressed throughout the course.

**BIOL 15        California Ecology        5 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture, three hours laboratory (84 hours total per quarter).*
This course is an introduction to ecology and field biology as a branch of the biological sciences and its relationship to the scientific method. It includes a review of plant and animal adaptations to the natural environments of California and the impact of pollution, degradation of habitat and human population on life.

**BIOL 26        Introductory Microbiology        6 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: (BIOL 40A, 40B and 40C) or (BIOL 6A or 6AH, 6B and 6C or 6CH), or equivalent, all with a grade of C or better.*
*Four hours lecture, six hours laboratory (120 hours total per quarter).*
Introduction to the sciences and the scientific method as exemplified by the study of microbiology. Morphology, metabolism, growth and genetics of bacteria and other microorganisms; chemical and physical means of control; the disease process and immunity. The importance of microorganisms to humankind; techniques and methods of microbiology.

**BIOL 40A        Human Anatomy and Physiology        5 Units**
*Prerequisite: Satisfactory score on the BIOL 40A Placement Test; or CHEM 1A, 25 or 30A with a grade of C or better.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 40B        Human Anatomy and Physiology        5 Units**
*Prerequisite: BIOL 40A with a grade of C or better.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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.

**BIOL 45        Introduction to Human Nutrition        4 Units**
*Prerequisite: BIOL 6C, BIOL 6CH or BIOL 40, or equivalent with a grade of C or better.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course will cover the chemical classification of nutrients and their functions within the human body, the effects of nutritional deficiencies and excesses, and the relationship of dietary intakes to health and disease.

**BIOL 54G        Applied Human Anatomy and        1 1/2 Units**
**Physiology: Levels of Organization**
*(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 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        1 1/2 Units**
**Physiology: Support, Movement,**
**and Integration**
*(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 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        1 1/2 Units**
**Physiology: Coordination and Transport**
*(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 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        1 1/2 Units**
**Physiology: Absorption, Excretion,**
**and Reproduction**
*(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 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 to the biological sciences. Specific projects determined in consultation with the instructor.

# Business

**BUS 10        Introduction to Business        5 Units**
*Advisory: EWRT 211 and READ 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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.

**B**
**C**

**BUS 54        Business Mathematics        5 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 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 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 (EWRT 1AS and EWRT 1AT) 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        5 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This is an introductory course designed to teach the fundamental components of the human resource function. It will focus on understanding and applying various roles of human resources (recruitment, ethical and legal issues, selection, assessment and development, compensation, benefits) provided 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 ESL 272 and 273; BUS 55.*
*Four hours lecture (48 hours total per quarter).*
Learn how to effectively organize the resources required to establish a new business and obtain financing by writing an analysis of the prospective business enterprise.

**BUS 60        International Business Management        5 Units**
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course will teach students to develop effectiveness in leadership situations, understand the complex challenges of leadership, and adapt leadership techniques to build successful relationships in a culturally diverse world.

**BUS 70        Principles of E-Commerce        5 Units**
*Advisory: EWRT 211 and READ 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-commerce models, strategy, technology, auctions, and marketing. Students are expected to complete computer assignments.

**BUS 73        International Marketing        5 Units**
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Five hours lecture (60 hours total per quarter).*
An introduction to the marketing practices that organizations employ when operating across national borders, with a focus on foreign marketing environments, people, and cultures and their influences on the total marketing process.

**BUS 85        Business Communication        3 Units**
*Advisory: EWRT 211 and READ 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 ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
This course introduces the principles and practices of effective selling and includes the topics of the selling process, sales research, sales communication, and sales ethics.

**BUS 89        Advertising        5 Units**
*Advisory: EWRT 211 and READ 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 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 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 94        Social Media Marketing Strategies        5 Units**
*(Formerly BUS 59.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5; MATH 210 or equivalent; and BUS 90.*
*Five hours lecture (60 hours total per quarter).*
This course will explore social media as an effective delivery platform in marketing, specifically in promotion programs and product/service delivery. It will also analyze the strengths and weaknesses of major platforms and analytical tools and evaluate the cost-effectiveness and impacts on the overall marketing objectives of a business. There will be an emphasis on customer relationship-building, public relations, event marketing, and sales promotions using social media tactics in developing effective, ethical social media marketing strategies.

**BUS 96        Principles of Management        5 Units**
*Advisory: EWRT 211 and READ 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 5        College Major and Career Options        2 Units**
*(Formerly CLP 75.)*
*(Students may enroll in either CLP 5 or CLP 7, but not both, for credit.)*
*Advisory: EWRT 211 and READ 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.

**CLP 7        Self-Assessment        4 Units**
*(Formerly CLP 70.)*
*(See general education pages for the requirement this course meets.)*
*(Students may enroll in either CLP 5 or CLP 7, but not both, for credit.)*
*Advisory: EWRT 211 and READ 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.

# Chemistry

**CHEM 1A        General Chemistry        5 Units**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in CHEM 1AH.)*
*Prerequisite: CHEM 25 or CHEM 30A or satisfactory score on the Chemistry Placement Test; MATH 114 or MATH 130 or equivalent.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Three hours lecture, six hours laboratory (108 hours total per quarter).*
This course provides an introduction to the structure and reactivity of matter at the molecular level, as well as an application of critical reasoning to modern chemical theory and structured numerical problem-solving. Students will learn the 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, and be introduced to thermochemistry and a discussion of the first law of thermodynamics.

**CHEM 1AH        General Chemistry - HONORS        5 Units**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in CHEM 1A.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Prerequisite: CHEM 25 or CHEM 30A or satisfactory score on the Chemistry Placement Test; MATH 114 or MATH 130 or equivalent.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Three hours lecture, six hours laboratory (108 hours total per quarter).*

This course provides an introduction to the structure and reactivity of matter at the molecular level, as well as an application of critical reasoning to modern chemical theory and structured numerical problem-solving. Students will learn the 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, and be introduced to thermochemistry and a discussion of the first law of thermodynamics. Additionally, this course is part of the Honors Program.

**CHEM 1B General Chemistry 5 Units**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in CHEM 1BH.)*
*Prerequisite: CHEM 1A or CHEM 1AH with a grade of C or better.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*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 1BH General Chemistry - HONORS 5 Units**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in CHEM 1B.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Prerequisite: CHEM 1A or CHEM 1AH with a grade of C or better.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*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. Note: This course is part of the Honors Program.

**CHEM 1C General Chemistry and Qualitative 5 Units**
**Analysis**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in CHEM 1CH.)*
*Prerequisite: CHEM 1B or CHEM 1BH with a grade of C or better.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*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 1CH General Chemistry and Qualitative 5 Units**
**Analysis - HONORS**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in CHEM 1C.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Prerequisite: CHEM 1B or CHEM 1BH with a grade of C or better.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*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. Note: This course is part of the Honors Program.

**CHEM 10 Introductory Chemistry 5 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 5 Units**
**Chemistry**
*Prerequisite: MATH 114 or or MATH 130 or equivalent.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture, three hours laboratory (84 hours total per quarter).*
This course is an introduction to the core theory and problem-solving techniques of chemistry as preparation for CHEM 1A and CHEM 1AH and other science-related fields, as well as gravimetric and volumetric analysis, rudimentary laboratory equipment and operations, and the preparation and maintenance of a laboratory notebook.

**CHEM 30A Introduction to General, Organic 5 Units**
**and Biochemistry I**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: MATH 114 or MATH 130 or equivalent.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture, three hours laboratory (84 hours total per quarter).*
This is a two-part course to be taken in sequence by students entering the allied health fields. The focus of the first part of this course is an introduction to general chemistry with a discussion of various measurement tools, followed by a discussion of energy and matter, and 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. The course will discuss the properties of gases and solutions and concludes with a discussion of acid-base chemistry and nuclear chemistry.

**CHEM 30B Introduction to General, Organic 5 Units**
**and Biochemistry II**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: CHEM 1A, 25 or 30A.*
*Advisory: EWRT 211 and READ 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.*
This course involves individual research in the chemical sciences, with specific projects determined in consultation with the instructor. Outside reading and a written report required.

C

# Child Development

**C D 10G          Child Development (The Early Years)          4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 or ESL 273.*
*(Also listed as PSYC 10G. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
An introductory course that examines the major physical, psychosocial and cognitive/language developmental milestones for children, both typical and atypical, from conception through middle childhood. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages.
(This course meets NAEYC Standards 1 and 3; NBPTS Standards 1 and 4; and CEC Standards 1, 2 and 3.)

**C D 10H          Child Growth and Development          4 Units**
**                    (Middle Childhood and Adolescence)**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Also listed as PSYC 10H. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
An introductory course that examines the major physical, psychosocial and cognitive/language developmental milestones for children, both typical and atypical, from school age through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages.
(This course meets NAEYC Standards 1 and 3; NBPTS Standards 1 and 4; and CEC Standards 1, 2 and 3.)

**C D 12          Child, Family and Community          4 Units**
**                    Interrelationships**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 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 Young Children Standards; Standard 2 Building Family and Community Relationship, Standard 4 Using developmentally effective approaches, and Standard 5 6 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.)

**C D 50          Principles and Practices of          4 Units**
**                    Teaching Young Children**
*Advisory: EWRT 211 and READ 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).

**C D 51A          Basic Student Teaching Practicum          5 Units**
*Prerequisite: C D 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.)

**C D 51B          Advanced Student Teaching Practicum          5 Units**
*Prerequisite: C D 51A.*
*Two and one-half hours lecture, eight hours laboratory (126 hours total per quarter).*
A demonstration of advanced developmentally appropriate early childhood teaching competencies under guided supervision. Students will build on the basic teaching skills in a classroom experience to make more advanced connections between theory and practice, develop professional behaviors, and build a more comprehensive understanding of children and families. Advanced competency will include completing a child assessment.
(This course meets the NAEYC Standards 1, 2, 3, 4, and 5; and NBPTS Standards 1 through 9.)

**C D 52          Observation and Assessment of Children          4 Units**
*Advisory: EWRT 211 and READ 211, or 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, SS5; NBPTS Standards 3 and 4; DEC Standard 8 Assessment; CA Early Childhood Educator Competency Focus 1: Observation, Screening, Assessment and Documentation; CA ECE/Infant Family Early Childhood Mental Health Competencies Areas B and E.)

**C D 53          Creative Art for the Young Child          3 Units**
*Prerequisite: C D 10G or PSYC 10G (may be taken concurrently) and C D 50 (may be taken concurrently).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 hours total per quarter).*
This course provides an overview of creative activities for children from infancy through the school years with an emphasis 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 every child.
(This course meets NAEYC Standards 1a, 1b, 1c; 4a, 4b, 4d; NBPTS Standards I, II, IV, VI; and CDE/DEC Standards CC1- K10, CC4-S2; EC4-S1; CC7, S10, S11, S13; EC7-S2.)

**C D 54          Curriculum for Early Childhood Programs          4 Units**
*Prerequisite: C D 10G or PSYC 10G (may be taken concurrently).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
Curriculum development with emphasis on planning curriculum that is emergent, developmentally and individually appropriate and inclusive for all young children through age 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.)

**C D 55          Literacy Development and Activities          3 Units**
**                    for the Young Child**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 hours total per quarter).*
Theories of language acquisition and the process of language development in young children. Introduction to methods and materials that enhance emerging language and literacy for infants through school-age children in a culturally diverse society.
(This course meets NAEYC Standards: 1a,1b,1c; 3a, 3b, 3c; 4b, 4c, 4d; NBPTS Standards 1-10 for ECE-Middle Years; DEC/CEC standards 1-8; and CA ECE Standards 1, 2, 5 and 8.)

**C D 56          Understanding and Working with          3 Units**
**                    English Learners**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 hours total per quarter).*
Developmental and cultural examination of the dual language learner in early childhood programs. Theories and developmental sequence of bilingual language acquisition. Role of teacher and methods for supporting the young English learner.
(This course meets National Association for the Education of Young Children (NAEYC) Standard 4b: Teaching and learning: Using developmentally effective approaches; National Board for Professional Teaching Standards (NBPTS) Early childhood/Generalist Standard II: Equity, Fairness and Diversity; Council for Exceptional Children (CEC) Special Education Content Standards, Standard 2: Development & Characteristics of Learners; Standard 6: Language. California Early Child Educators Competencies: Culture, Diversity and Equity and Dual Language Development.

**C D 57    Self-Assessment for Teachers of        5 Units**
**            Young Children Using Reflective Practice:**
**            Field Experience**
*Prerequisite: C D 10G or PSYC 10G.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours lecture, ten hours laboratory (144 hours total per quarter).*
An examination of the use of self-assessment and reflective practice techniques for individualized teacher preparation with emphasis on specific types of environments, interactions that support the development of children's social-emotional, cognitive, and early academic skills. Student will use field placement to practice and develop skills.
(This course meets NAEYC Standards 1, 2, 3, 4 and 5; NBPTS Standards 1 and 4; CEC Standards 2, 4, 5, 7, 9 and 10 and ECE Competencies Standards 1, 3, 4 and 7.)

**C D 58    Infant/Toddler Development        5 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
Study of physical, cognitive, language, social and emotional development from preconception to age three, with emphasis on cultural diversity, the role of family and relationships in development. Application of theoretical frameworks to interpret behavior and the interaction between heredity and environment. Program and Individualized Family Service Plan planning based on observation of infants and communication with parents will be explored. Ways to implement assessment tool results (such as from Desired Results Developmental Profile and/or Ages and Stages surveys) will be discussed. Methods for infant and toddler care routines, the role of administration, and interpretation of observations will be explored. Best practices, responsive care giving techniques, environments, infant/toddler foundations, health, safety, and licensing requirements will be examined.
(This course meets NAEYC Standards 1-5; NBPTS Standards 4 and 5; and DEC Standard 5 Family Based Practices.)

**C D 59G   Supervision and Administration of     4 Units**
**            Child Development Programs**
**            Management Systems)**
*Prerequisite: C D 10G or PSYC 10G (may be taken concurrently) and C D 50 (may be taken concurrently).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
This course is an introduction to the administration of early childhood programs and covers program types, budget, management, regulations, laws, and the development and implementation of policies and procedures. It examines administrative tools, philosophies, and the techniques needed to organize, open, and operate an early care and education program.
(This course meets NAEYC Standard 6 and California ECE Competencies: Administration & Supervision.)

**C D 59H   Supervision and Administration of     4 Units**
**            Child Development Programs**
**            (Leadership Skills)**
*Prerequisite: C D 10G or PSYC 10G (may be taken concurrently) and C D 50 (may be taken concurrently).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
This course studies the methods and principles of supervision and management as they apply to the administration of programs in early childhood settings. An emphasis is placed on personnel management, supervision styles and skills, interpersonal communication, ethical and professional standards, and an awareness of the sociopolitical context of early childhood programs.
(This course meets NAEYC Standard 6.)

**C D 60    Introduction to Children with       3 Units**
**            Special Needs**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 hours total per quarter).*
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.

**C D 61    Music and Movement (Developmental     3 Units**
**            Foundations)**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: C D 10G or PSYC 10G (may be taken concurrently) and C D 50 (may be taken concurrently).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 hours total per quarter).*
This course is a developmental introduction to music and movement experiences. Students will have opportunities to engage in and to reflect on how music and movement foster healthy development in children and adults. Students will also have opportunities to see how music and movement define and are linked to cultural experience and to who we are as individuals.

(This course meets the NAEYC Standards 2,3 and 4; CCA Standards 3, 7, 8 and 11; NBPTS Standards 1, 2, 3 and 4.)

**C D 63    Math and Science Activities for      3 Units**
**            the Young Child**
*Prerequisite: C D 10G or PSYC 10G (may be taken concurrently) and C D 50 (may be taken concurrently)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 hours total per quarter).*
This course allows students to design and assess developmentally appropriate activities and environments that foster curiosity and problem-solving in young children. An emphasis will be placed on the constructivist theories of cognitive development as a foundation for planning and implementing Science, Technology, Engineering, and Math (STEM).
(This course meets NAEYC Standards 1a, 1b, 1c, 4b, 4c, 5a, 5b, 5c; NBPTS Standards I-VI; CED/DEC Standards CC4-S2, EC4-S1, CC7-K1, CC7-S1, CC7-S10, CC7-S11, CC7-S13, EC7-S4.)

**C D 64    Health, Safety, and Nutrition for    4 Units**
**            the Young Child**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
Introduction to the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus is put on integrating the concepts into everyday planning and program development for all children.
(This course meets the California State requirements for health, safety and nutrition, 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.)

**C D 67    Supervision and Administration of     3 Units**
**            Child Development Programs**
**            (Adult Supervision)**
*Prerequisite: C D 10G or PSYC 10G (may be taken concurrently) and C D 50 (may be taken concurrently).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 hours total per quarter).*
This course is a study of the methods and principles of supervising student teachers, assistant teachers, teachers, parents, and volunteers in early childhood classrooms. An emphasis is placed on the role of teachers supervising other adults while simultaneously addressing the classroom needs of children, parents, and the program.

**C D 68    Teaching in a Diverse Society       4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
Examination of the development of social identities in diverse societies including theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms and teaching. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. 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.)

**C D 70    Seminar in Parenting the Preschool Child    1 Unit**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*One hour lecture (12 hours total per quarter).*
A seminar for parents, teachers and other adults interested in the parenting of children, primarily (but not exclusively) two to five years old. Students will explore and examine the ways to strengthen families. Students will also learn about optimal environments to support the healthy growth and development of children and parents.
(This course meets NAEYC Standard 2; NBPTS Standard 7; and DEC/CEC Standard 3.)

**C D 71    Constructive Guidance and Positive    3 Units**
**            Discipline in Early Childhood**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 hours total per quarter).*
Explores the principals and techniques that promote high self-esteem and positive behaviors in young children.
(This course meets NAEYC Standards 1a,1c,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.)

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

**C**

**C D 72**     **Partnerships with Families in Early**     **3 Units**
                       **Childhood Education**
*Prerequisite: C D 10G or PSYC 10G (may be taken concurrently) and C D 50 (may be taken concurrently).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 hours total per quarter).*
This course examines key principles and effective approaches in joining with and involving families in promoting children's learning, development, and success in early childhood education settings.
(This course meets NAEYC Standard 2; NBPTS Generalist Standard VII; CEC/DEC Standard 10; and CA Early Childhood Competencies: Family and Community Engagement, and Relationships, Interaction and Guidance.)

**C D 73**     **Early Childhood Mental Health**     **3 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 hours total per quarter).*
Examination of mental health milestones at each stage of a child's development. Overview of psychological theory in infant/early childhood mental health. Assessment and screening to identify early childhood mental health challenges. Implementation of mental health interventions and strategies. An exploration of how early experiences in the first five-years of life can impact the physical and psychological development and well-being of children throughout the lifespan.
(This course meets National Association for the Education of Young Children (NAEYC) Standard 1: Promoting Child Development and Learning; Standard 3: Observing, Documenting and Assessing to Support Young Children and Families; National Board for Professional Teaching Standards (NBPTS) Early Childhood/General Standards, 2nd Ed. Standard I: Understanding Young Children, Standard III: Assessment, Standard VI: Multiple Teaching Strategies for Meaningful Learning; and Council for Exceptional Children (CEC) Special Education: Standard 2: Development and Characteristics of Learners, Standard 4 Instructional Strategies.) California Early Child Educators Competencies: Relationships, Interactions,and Guidance and Preschool Learning Foundations Vol 1- Child Development.)

**C D 74**     **Early Childhood Mental Health**     **3 Units**
                       **Seminar and Fieldwork**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours lecture, three hours laboratory (60 hours total per quarter).*
Provides an overview of different approaches to early identification and intervention with children and their families and will help students develop basic support skills for use in dealing with high-risk families, including those with exceptional emotional, social, or physical needs.
(This course meets National Association for the Education of Young Children (NAEYC) Standard 3, Standard 4b; National Board for Professional Teaching Standards (NBPTS) Early Childhood/Generalist Standard I, III, VI, IX; and Council for Exceptional Children (CEC) Special Education Content Standards, Standards 4, 5 and 8.)

**C D 75**     **Social Emotional Development in**     **3 Units**
                       **Early Childhood**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 hours total per quarter).*
Social emotional development and how peer, family, gender, teachers and society influence this development. The impact of variations in development on learning and life outcomes.
(This course meets 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.)

**C D 76**     **Trauma and Early Childhood**     **4 1/2 Units**
                       **Development**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four and one-half hours lecture (54 hours total per quarter).*
Provides an overview of trauma-informed care in early childhood education, including the impact of trauma on the developing child, protective and resiliency factors, and the benefits and opportunities of partnering families. It explores the impacts of early childhood traumatic experiences on physical, cognitive, and psychological development throughout the lifespan.
(This course meets NAEYC Standard 1: Promoting Child Development and Learning & Standard 3: Observing, Documenting and Assessing to Support Young Children and Families.)
(This course is aligned with California Early Childhood Educator Competencies 1, 2, 3 & 4. This course is aligned with California Center for Infant-Family and Early Childhood Mental Health- Reflective Practice Facilitator I.)

**C D 77**     **Special Projects in Child Development**     **1/2 Unit**
**C D 77W**                                                    **1 Unit**
**C D 77X**                                                    **2 Units**
**C D 77Y**                                                    **3 Units**
*Prerequisite: Consent of instructor and division dean.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).*

Offers an in-depth exploration of a special topic, issue or trend in the early childhood education field. It involves researching of a topic of interest to the student. Research may include a review of the literature, interviews and other fieldwork such as exploring community resources or investigating a common teaching practice for effectiveness. Meets the variable needs of students, the early childhood industry and community, and responds to a current issue, technique, or discourse.
(This course meets NAEYC Standard 4c, Understanding Content Knowledge in ECE and Standard 5, Becoming a Professional; NBPTS Standards IX, Reflective Practice; and DEC-CEC Standard 9 Professional & Ethical Practice; ECE Competencies Professionalism.)

**C D 79**     **Implementation of Trauma Informed**     **4 1/2 Units**
                       **Care and Field Experience**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
An introduction to trauma informed care, approaches for implementation including the assessments of the program. This course will focus on trauma informed practices for administrators, teachers and parents. Students will use field placement to practice and develop skills.

**C D 80**     **Design, Program Development, and**     **3 Units**
                       **Daily Operation of Family Child Care**
*Prerequisite: C D 10G or PSYC 10G (may be taken concurrently) and C D 50 (may be taken concurrently).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 hours total per quarter).*
This course provides an overview of family childcare as a business and as a program for children. Starting your own childcare business, budget and contracts, licensing and safety requirements will be addressed. Relevant program issues such as designing indoor/outdoor environments, daily schedule, curriculum, child guidance, accommodations for all children, and parent partnerships will be presented.
(This course meets NAEYC Standards 1, 2, 3, 4, and 5; NBPTS Standards 1, 2, 3 and 4; CCA Standards 1, 2, 6, 7, 8, 9, 11 and 12.)

**C D 90**     **Facilitating Inclusion in Early**     **3 Units**
                       **Childhood Programs: Intervention**
                       **Strategies**
*Prerequisite: C D 10G (or PSYC 10G) and C D 60.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 hours total per quarter).*
Expands upon a student's ability to work effectively with all children in early childhood programs and more specifically with infants, toddlers and preschoolers with disabilities and other special needs in inclusive environments. Focus will include theories, research, and practical applications of best practices from both the fields of Early Childhood Education and Early Intervention/Early Childhood Special Education. Students will learn to design practical and effective intervention strategies for individual children with special needs within the context of natural environments and will learn to work in collaboration with IFSP/IEP teams.
(This course meets NAEYC Standards 1a, 1c, 2b, 3a, 3b, 3d, 4b; CEC/DEC Standards CC3-K4, CCK-5, CC4-S1-6, EC4-S1-3, CC5-K3, CC5-S1-5; and NBPTS Standards 2 and 4; California Early Childhood Educator Competencies: Competency Area 7: Performance Areas: 1-4; California Interagency Coordination Council in Early Intervention, Early Intervention Assistant level competencies.)

**C D 101W**     **Current Issues in Child Development**     **1 Unit**
**C D 101X**                                                    **2 Units**
**C D 101Y**                                                    **3 Units**
**C D 101Z**                                                    **4 Units**
*Prerequisite: C D 10G or PSYC 10G (may be taken concurrently) and C D 50 (may be taken concurrently).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).*
This course is an in-service workshop for teachers, aides, and parent volunteers to increase awareness of contemporary professional issues in Child Development. Course topics will vary based on the contemporary issues in Child Development and professional practice in the field of education.

**C D 102W**     **Curriculum for Child Development**     **1 Unit**
                       **Personnel**
**C D 102X**                                                    **2 Units**
**C D 102Y**                                                    **3 Units**
**C D 102Z**                                                    **4 Units**
*Prerequisite: C D 10G or PSYC 10G (may be taken concurrently) and C D 50 (may be taken concurrently).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).*
This course is an in-service workshop for teachers, aides, and parent volunteers to improve skills and knowledge in the area of curriculum for child development personnel. Course topics will vary depending on subject matter relating curriculum for child development personnel.

| C D 103W | Topics in Preschool Program Administration | 1 Unit |
|---|---|---|
| C D 103X | | 2 Units |
| C D 103Y | | 3 Units |
| C D 103Z | | 4 Units |

*Prerequisite: C D 10G or PSYC 10G (may be taken concurrently) and C D 50 (may be taken concurrently).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).*
This course is an in-service workshop for program directors, site supervisors, headteachers, or others with administrative or supervisory responsibility to improve skills and knowledge in the area of Child Development program administration. Course topics will vary.

# Cinema

*(See Film and Television Production for course listings.)*

# Communication Studies

*(Formerly Seech Communications)*

**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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Five hours lecture (60 hours total per quarter).*
Theory and techniques of public speaking in a democratic society. An introduction to a variety of perspectives and approaches used to research, assess, organize, present, and evaluate public presentations. Students will develop and apply effective research strategies.

**COMM 1H          Public Speaking - HONORS          5 Units**
*(Formerly SPCH 1H.)*
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in COMM 1.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Five hours lecture (60 hours total per quarter).*
Theory and techniques of public speaking in a democratic society. An introduction to a variety of perspectives and approaches used to research, organize, present, and evaluate public presentations. Students will develop and apply effective research strategies. As an honors course students will be expected to complete extra assignments to gain deeper insight in speech communication.

**COMM 7          Intercultural Communication          4 Units**
*(Formerly SPCH 7.)*
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in ICS 7 or ICS 7H or COMM 7H.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as ICS 7. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
Study of intercultural communication in domestic and global contexts. Examines how differing cultures, languages, and social patterns influence the way members of groups relate among themselves and with members of other ethnic and cultural groups. Emphasizes development of interpersonal skills for communicating effectively across cultures and encourages appreciation of diverse cultural voices.

**COMM 7H          Intercultural Communication - HONORS          4 Units**
*(Formerly SPCH 7H.)*
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in ICS 7 or ICS 7H or COMM 7.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as ICS 7H. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
Study of intercultural communication in domestic and global contexts. Examines how differing cultures, languages, and social patterns influence the way members of groups relate among themselves and with members of other ethnic and cultural groups. Emphasizes development of interpersonal skills for communicating effectively across cultures and encourages appreciation of diverse cultural voices. As an honors course students will be expected to complete additional assignments to gain deeper insight in Intercultural Studies with an emphasis on interdisciplinary connections with Communication Studies.

**COMM 8          Argumentation and Critical Inquiry in Oral Communication          5 Units**
*(Formerly SPCH 8.)*
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in COMM 8H.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5; COMM 1, 1H, 10 or 10H.*
*Five hours lecture (60 hours total per quarter).*
Principles and methods of critical inquiry, advocacy, and debate. Students will critically evaluate research sources and evidence; identify fallacies in reasoning and language; advance reasoned positions with consideration to ethical and equitable practices; and defend and refute arguments through analysis, presentation, and evaluation of arguments.

**COMM 8H          Argumentation and Critical Inquiry in Oral Communication - HONORS          5 Units**
*(Formerly SPCH 8H.)*
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in COMM 8.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5; COMM 1, 1H, 10 or 10H.*
*Five hours lecture (60 hours total per quarter).*
Principles and methods of critical inquiry, advocacy, and debate. Students will critically evaluate research sources and evidence; identify fallacies in reasoning and language; advance reasoned positions with consideration to ethical and equitable practices; and defend and refute arguments through analysis, presentation, and evaluation of arguments. As an honors course students will be expected to complete additional assignments to gain deeper insight in argumentation and critical inquiry.

**COMM 9          Argumentation: Analysis of Oral and Written Communication          5 Units**
*(Formerly SPCH 9.)*
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in COMM 9H.)*
*Prerequisite: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT).*
*Advisory: COMM 1, 1H, 10 or 10H.*
*Five hours lecture (60 hours total per quarter)*
This course covers 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 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 or (EWRT 1AS and EWRT 1AT).*
*Advisory: COMM 1, 1H, 10 or 10H.*
*Five hours lecture (60 hours total per quarter).*
This course covers 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. Because this is an honors course, students will be expected to complete additional assignments to gain deeper insight into argumentation, and critical inquiry.

**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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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

**COMM 15**  **Critical Decision-Making in Groups**  **5 Units**
*(Formerly SPCH 15.)*
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in COMM 15H.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5; COMM 1, 1H, 10 or 10H.*
*Five hours lecture (60 hours total per quarter).*
Study in communication and critical decision making in the context of effective group problem solving with an emphasis on principles of sound reasoning to make a well-reasoned decision. This course explores theory, application, and evaluation of group communication processes, including problem solving, conflict management, decision making, and leadership, with the goal of understanding different points of view in an increasingly diverse and interconnected global society.

**COMM 15H**  **Critical Decision-Making in Groups -**  **5 Units**
**HONORS**
*(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 (EWRT 1AS and EWRT 1AT) or ESL 5; COMM 1, 1H, 10 or 10H.*
*Five hours lecture (60 hours total per quarter).*
A study in communication and critical decision making in the context of effective group problem solving with an emphasis on principles of sound reasoning to make a well-reasoned decision. This course explores theory, application, and evaluation of group communication processes, including problem solving, conflict management, decision making, and leadership, with the goal of understanding different points of view in an increasingly diverse and interconnected global society. As an honors course students will be expected to complete additional assignments to gain deeper insight in critical decision making and group problem solving.

**COMM 16**  **Interpersonal Communication**  **5 Units**
*(Formerly SPCH 16.)*
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in COMM 16H.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5; COMM 1, 1H, 10 or 10H.*
*Five hours lecture (60 hours total per quarter).*
Study of interpersonal communication principles with an emphasis on developing the self concept through listening, verbal and nonverbal communication, language and cultural knowledge as a means of maintaining effective relationships in an increasingly diverse and interconnected global society.

**COMM 16H**  **Interpersonal Communication - HONORS**  **5 Units**
*(Formerly SPCH 16H.)*
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in COMM 16.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5; COMM 1, 1H, 10 or 10H.*
*Five hours lecture (60 hours total per quarter).*
A study of interpersonal communication principles with an emphasis on developing the self concept through listening, verbal and nonverbal communication, language and cultural knowledge as a means of maintaining effective relationships in an increasingly diverse and interconnected global society. As an honors course students will be expected to complete additional assignments to gain deeper insight in communication studies.

**COMM 70**  **Effective Organizational Communication**  **5 Units**
*(Formerly SPCH 70.)*
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in COMM 70H.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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.

**COMM 70H**  **Effective Organizational**  **5 Units**
**Communication - HONORS**
*(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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Five hours lecture (60 hours total per quarter).*

A study of contemporary concepts relevant to the meanings and functions of communication in organizations. Impact of communication, leadership, information technology, ethics, and globalization on organizational effectiveness. Students develop and apply research strategies to analyze a specific organization. Emphasizes development of communication skills useful for working productively in dynamic, collaborative, multicultural work environments. As an honors course students will be expected to complete additional assignments to gain deeper insight in organizational communication.

**COMM 77W**  **Special Individual Projects in**  **1 Unit**
**Communication Studies**
**COMM 77X**  **2 Units**
**COMM 77Y**  **3 Units**
**COMM 77Z**  **4 Units**
*(Formerly SPCH 77, 77X, 77Y and 77Z respectively.)*
*Prerequisite: Consent of instructor and division dean.*
*Advisory: EWRT 211 and READ 211, or 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.

**COMM 78W**  **Special Topics in Communication Studies**  **1 Unit**
**COMM 78X**  **2 Units**
**COMM 78Y**  **3 Units**
**COMM 78Z**  **4 Units**
*(Formerly SPCH 78W, 78X, 78Y and 78Z respectively.)*
*Advisory: COMM 1, 1H, 10 or 10H.*
*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 Communication Studies discipline. Subject matter will vary. Some courses may involve a service learning component.

# Computer Information Systems

**CIS 2**  **Computers and the Internet in Society**  **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
A critical examination of the capabilities and uses of the Internet, computers and cellular communications, and how they are changing business, law, politics, health, education, entertainment, and society.

**CIS 3**  **Business Information Systems**  **4 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
This is an introductory course to business information systems, systems design and development life cycle, data communications, data management, office automation, computer hardware and software concepts. The use of common software packages for business applications including word processing, spreadsheets, database, and internet web tools will be covered.

**CIS 4**  **Computer Literacy**  **4 1/2 Units**
*(Formerly CIS 93.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
An introduction to basic computer literacy concepts. History of the computer, hardware, software, operating system mechanics, system management utilities, basics of networking, Internet and explore HTML web pages. The social impact and future of computers for communication systems are discussed along with an overview of basic security and privacy concerns. An integrated software package for word processing, spreadsheets, databases, e-mail, Internet and presentations are introduced.

**CIS 5**  **Swift Programming**  **4 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 114 or equivalent.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
Swift is Apple's open source language used to develop native iOS and Mac OS apps. Swift was designed to be beginner friendly. Topics covered include: native and collection data types, operators and statements, loops and branching, functions and variable scoping, modules and packages, object oriented programming, file handling, regular expressions and exception handling.

**CIS 9**  **Introduction to Data Science**  **4 1/2 Units**
*Prerequisite: CIS 41A.*
*Four hours lecture, one and one-half hours hours laboratory (66 hours total per quarter).*
This course is an introduction to data science, which covers data analytics and machine learning. Topics covered include data gathering and data wrangling, data assessment and visualization, supervised and unsupervised machine learning, natural language processing.

**CIS 14A**     **Visual Basic .NET Programming I**     **4 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
This course will focus on programming in Visual Basic, with an emphasis on Windows programming using the Visual Basic environment, and the development of well-structured VB projects using forms, buttons, labels, picture boxes, and text boxes.

**CIS 14B**     **Visual Basic .NET Programming II**     **4 1/2 Units**
*Prerequisite: CIS 14A or equivalent.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
This course prepares students to develop professional-looking and deployable Visual Basic applications using advanced controls, user-created classes, incorporating databases with ADO.NET 3.5, calling APIs, and creating Web applications.

**CIS 18A**     **Introduction to Unix/Linux**     **4 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; CIS 4.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
This course is an introduction to the features of the Unix/Linux operating system including text editing, text file manipulation, electronic mail, Internet utilities, directory structures, input/output handling, and shell features.

**CIS 18B**     **Advanced Unix/Linux**     **4 1/2 Units**
*Prerequisite: CIS 18A.*
*Advisory: 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.

**CIS 18C**     **Bash Scripting**     **4 1/2 Units**
*Prerequisite: CIS 18B.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
Programming in bash shell, Korn shell, Bourne shell, tc shell and C shell.

**CIS 21JA**     **Introduction to x86 Processor Assembly Language and Computer Architecture**     **4 1/2 Units**
*Prerequisite: CIS 22B or CIS 22BH or CIS 26A or CIS 35A or CIS 36B or CIS 41A.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
This course is an introduction to the syntax and semantics of the x86 processor assembly language, standard instruction set, selected macros and directives, and x86 architecture.

**CIS 21JB**     **Advanced x86 Processor Assembly Programming**     **4 1/2 Units**
*Prerequisite: CIS 21JA.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
This course covers the theory and application of advanced assembly programming techniques, with emphasis on multi-module programs, interrupt level programming, recursive and re-entrant techniques, floating-point processing, interface with the OS and high-level language.

**CIS 22A**     **Beginning Programming Methodologies in C++**     **4 1/2 Units**
*(Students may receive credit for either (CIS 22A and CIS 22B/22BH) or CIS 27.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 114 or equivalent.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
The fundamental constructs of programming and introduces the concept of object oriented programming is covered in the course. Its primary objective is to teach problem solving using the C++ programming language. Emphasis will be placed on structured procedural programming with an introduction to object-oriented programming. Designed primarily for computer science and related transfer majors.

**CIS 22B**     **Intermediate Programming Methodologies in C++**     **4 1/2 Units**
*(Not open to students with credit in CIS 22BH.)*
*(Students may receive credit for either (CIS 22A and CIS 22B/22BH) or CIS 27.)*
*Prerequisite: CIS 22A.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
A systematic approach to the design, construction and management of computer programs, emphasizing design, programming style, documentation, testing and debugging techniques. Strings, multidimensional arrays, structures, and classes. Pointers: their use in arrays, parameters and dynamic allocation. Introduction to linked lists. Software engineering and computer science students are the targeted group.

**CIS 22BH**     **Intermediate Programming Methodologies in C++ - HONORS**     **4 1/2 Units**
*(Not open to students with credit in CIS 22B.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*(Students may receive credit for (CIS 22A and CIS 22B/22BH) or CIS 27.)*
*Prerequisite: CIS 22A.*

*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
A systematic approach to the design, construction and management of computer programs, emphasizing design, programming style, documentation, testing and debugging techniques. Strings, multidimensional arrays, structures, and classes. Pointers: their use in arrays, parameters and dynamic allocation. Introduction to linked lists. As an honors course the students are expected to complete extra assignments to gain deeper insight in working with structures, classes, and linked lists. Software engineering and computer science students are the targeted group.

**CIS 22C**     **Data Abstraction and Structures**     **4 1/2 Units**
*(Not open to students with credit in CIS 22CH.)*
*Prerequisite: CIS 22B, 22BH or 35A.*
*Advisory: MATH 212 or equivalent.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
Application of software engineering techniques to the design and development of large programs; data abstraction and structures and associated algorithms: stacks, queues, linked lists, trees, graphs, and hash tables; internal and external sorting; use of recursion; team project.

**CIS 22CH**     **Data Abstraction and Structures - HONORS**     **4 1/2 Units**
*(Not open to students with credit in CIS 22C.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Prerequisite: CIS 22B, 22BH or 35A.*
*Advisory: MATH 212 or equivalent.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
Application of software engineering techniques to the design and development of large programs; data abstraction and structures and associated algorithms: stacks, queues, linked lists, trees, graphs, and hash tables; internal and external sorting; use of recursion; team project. As an honors course the students will be expected to complete extra assignments to gain deeper insight in design and implementation of data structures.

**CIS 26A**     **C as a Second Programming Language**     **4 1/2 Units**
*(This course is intended for students who are competent in another programming language.)*
*Prerequisite: An Introductory Programming Language course such as CIS 22A or CIS 36A or equivalent.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
This course is an introduction to the C programming language and its applications with topics covering basic input/output, structured program design and implementation, basic control structures and keywords, character and string manipulation, arithmetic expressions, functions and program modularization, arrays, pointers, structures, and linked lists.

**CIS 26B**     **Advanced C Programming**     **4 1/2 Units**
*(Not open to students with credit in CIS 26BH.)*
*Advisory: CIS 22B, 22BH or 26A.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
Applications of advanced features of C and the C-library functions including: binary and random-access input/output, dynamic data structures, bit manipulation, string parsing and string-to-numeric conversion, event and error processing, function pointers, recursion, and variable-length argument list functions.

**CIS 26BH**     **Advanced C Programming - HONORS**     **4 1/2 Units**
*(Not open to students with credit in CIS 26B.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Advisory: 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. As an honors course the students will be expected to complete extra assignments to gain deeper insight in design and implementation of advanced C programs.

**CIS 27**     **Programming in C++ for C/Java Programmers**     **4 1/2 Units**
*(Students may receive credit for either (CIS 22A and CIS 22B/22BH) or CIS 27, but not both.)*
*Advisory: EWRT 211 and READ 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.

**CIS 28**     **Object Oriented Analysis and Design**     **4 1/2 Units**
*Advisory: 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.

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

**C**

**CIS 29**      **Advanced C++ Programming**      **4 1/2 Units**
*Prerequisite: (CIS 22B or CIS 22BH) or CIS 27 or equivalent.*
*Advisory: MATH 212 or equivalent.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
This course examines advanced topics in C++ including namespace, string and stringstream classes, cast operators, multiple inheritance, exception handling, compilation concepts, libraries, templates, the Standard Template Library, and programming style.

**CIS 30A**      **Introduction to C# Programming**      **4 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
This course is an introduction to C# programming, .NET environment, computing context, primitive types, the flow of control constructs, operators, text I/O, objects and classes, interfaces, packages, GUI, exceptions, and threads.

**CIS 30B**      **Advanced C# Programming**      **4 1/2 Units**
*Prerequisite: CIS 30A.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
This course emphasizes 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 multithreading.

**CIS 31**      **Operating System Concepts**      **5 Units**
*Advisory: CIS 21JA and (CIS 22B or CIS 22BH).*
*Five hours lecture (60 hours total per quarter).*
Concepts and use of operating systems: multiprogramming and multiprocessing systems; processor interrupts, processes and threads, mutual exclusion, indefinite postponement, deadlocks; scheduling considerations and security management.

**CIS 33A**      **Programming in Perl**      **4 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; CIS 22B or CIS 26A.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
A complete coverage of the core Perl language. Topics covered will include: basic loops and control structures, the elemental data types and operators, subroutines and variable scooping, regular expressions and text parsing, manipulation of files, advanced list processing with grep and map, references, built-in functions and core modules, and advanced input/output including random-access files and formatting.

**CIS 33B**      **Advanced Perl Programming**      **4 1/2 Units**
*Advisory: CIS 33A.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
Exploration of advanced topics from the core Perl distribution and essential non-core modules. Topics include reference-based data structures, object-oriented programming, connecting to SQL-based relational databases, non-relational database and file structures, process creation and management, and TCP/IP Client/Server programming.

**CIS 35A**      **Java Programming**      **4 1/2 Units**
*(Students may receive credit for either (CIS 36A and 36B) or 35A, but not both.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; CIS 22B, 22BH, 26A or 27.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
Introduction to Java programming, computing context, primitive types, flow of control constructs, operators, file I/O, objects and classes, inheritance, interfaces, packages, data structures and exceptions.

**CIS 35B**      **Advanced Java Programming**      **4 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; CIS 35A.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
Emphasis on foundation technologies in Java that enable you to write server side programs in Java. Concepts include inner classes, exceptions, file I/O, reflections, cloning, multi-threading, Java FX, Web Programming with Java Server Pages, Servlets, JavaServer Faces and JavaBeans.

**CIS 36A**      **Introduction to Computer**      **4 1/2 Units**
                 **Programming Using Java**
*(Formerly CIS 61A.)*
*(Students may receive credit for either (CIS 36A and 36B) or CIS 35A, but not both.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 114 or equivalent.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
An introduction to computer programming. The primary objective is to teach problem solving using the Java programming language. Emphasis will be placed on structured procedural programming with an introduction to object-oriented programming. Designed primarily for computer science and related transfer majors.

**CIS 36B**      **Intermediate Problem Solving in Java**    **4 1/2 Units**
*(Formerly CIS 61B.)*
*(Students may receive credit for either CIS 36A and 36B, or CIS 35A, but not both.)*
*Prerequisite: CIS 36A.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
A systematic approach to the design, construction and management of computer programs, emphasizing design, programming style, documentation, testing and debugging techniques. Strings, multi-dimensional arrays and Classes. References: their use in arrays, parameters and containment. Introduction to linked lists.

**CIS 40**      **Introduction to Programming in**      **4 1/2 Units**
                 **Python**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 114 or equivalent.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
A hands-on introduction to computation through programming and problem solving. Using the popular Python programming language, students will learn software engineering concepts and basic programming constructs while creating graphical applications.

**CIS 41A**      **Python Programming**      **4 1/2 Units**
*Prerequisite: CIS 22A or 36A or 40.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
A complete introduction to the Python language. Topics covered include: primitive and collection data types, operators and statements, loops and branching, functions and variable scoping, modules and packages, object oriented programming, file handling, regular expressions and exception handling

**CIS 41B**      **Advanced Python Programming**      **4 1/2 Units**
*Prerequisite: CIS 41A.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
A Python course designed for the professionals. The course picks up where CIS 41A, Python Programming, left off, covering some topics in more detail, and adding more advanced topics. Regular expressions and classes are covered extensively along with with network programming (FTP, Web client and server), graphical programming, database access, and Python extensions.

**CIS 50**      **Introduction to Computers, Data**      **3 Units**
                 **Processing, and Applications**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 hours total per quarter).*
Computer information systems (IS) basic terms and concepts. Important IS trends. Using systems development to build information systems. Survey of functions and components of an information system including applications software, systems software, telecommunications, networks, the Internet and Web. Social and organization issues.

**CIS 53**      **Java for Mobile Development**      **4 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; CIS 35A.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
Mobile application development using Android features including: Android development tools, activities and intents, pictures and menus, data persistence, messaging and networking, and rich media features.

**CIS 55**      **iOS Development**      **4 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; any one of CIS 5, CIS 14A, CIS 22A, CIS 36A or CIS 41A.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
This course is an introduction to mobile app design and development for devices running iOS using its native object-oriented programming language Swift and basic design patterns. Students will understand the core API's to construct powerful applications.

**CIS 56**      **Network Security**      **4 1/2 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; CIS 108.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
Provides broad-based knowledge and hands-on experience with many facets of network security. The course includes website and database attacks/defense, identified vulnerability exploits, layered security approaches, and Active Directory security policy settings. Includes cryptography, hashing, access controls, physical, application, data defenses, auditing and security protocols. Also, the course can help prepare students to pass the CompTIA Security+ Certification exam.

**CIS 57**      **Website Administration**      **4 1/2 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; CIS 66 and CIS 89A.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
This course is an introduction to establishing, configuring, managing, and controlling access to Internet servers.

**CIS 63**      **Systems Design**      **4 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
This course covers the current tools of structured systems analysis and design: data flow diagrams, structure charts, HIPO charts, VTOCs, data structure/dictionaries, decision trees and tables, and pseudo code.

**CIS 64A**      **Database Management Systems**      **4 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; CIS 3 or CIS 4.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
Rudiments of database design, implementation and use. Basic understanding of various data modeling techniques. Overview and comparison of database management systems. Emphasis on relational databases; introduction to SQL.

**CIS 64B            Introduction to SQL            4 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; CIS 64A.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
Introduction to Oracle SQL (Structured Query Language), DML (Data Manipulation Language) processing techniques, DDL (Data Definition Language) techniques, selecting and sorting data, joins, SQL functions, Oracle objects, Oracle data processing concepts to maintain large database systems.

**CIS 64C            Introduction to PL/SQL            4 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; CIS 64B.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
This course covers Oracle PL/SQL features including data definition and data manipulation using expressions, control structures, and Oracle objects. Error handling, predefined packages, triggers, transactions, and advanced PL/SQL features are also covered.

**CIS 64D            Database Tuning            3 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; CIS 64C.*
*Three hours lecture (36 hours total per quarter).*
Emphasis on importance of Performance Tuning, techniques for tuning several Oracle components, optimizing database for high volume transactions and Data Warehouses.

**CIS 64E            Fundamentals of Large Scale Cloud            4 Units**
**                   Computing**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
This course addresses the fundamental challenges in the design, implementation, and deployment of large-scale distributed systems. Concepts covered include concurrency, synchronization, connection establishment, event handling, inter process communication, storage management, and service registration, discovery, and lookup. It also covers issues related to distributed objects such as life cycle management, mobility, security, naming, location, evolution, and autonomy.

**CIS 64F            Introduction to Big Data and Analytics            4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
Introduction to Big-Data deluge, management of unstructured and structured data and design of large scale database systems. Concepts covered include Map-reduce parallel processing algorithms, Real-time analytics, classification, and predictive analytics, attributes of Big-Data and related issues. Introduction to large scale file systems and operations and parallel processing algorithms.

**CIS 64G            Data Visualization Methodology            4 1/2 Units**
**                   and Tools**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture, one and one-half hours hours laboratory (66 hours total per quarter).*
This course is an introduction to the strategies and technologies used in business intelligence reporting and dashboards for making data-driven decisions.

**CIS 64H            R Programming            4 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; CIS 22A or CIS 36A or CIS 40.*
*Four hours lecture, one and one-half hours hours laboratory (66 hours total per quarter).*
This course is an introduction to the R programming language and its utility in big data analytics. Topics covered include data objects, data cleansing, merging and sorting, statistical analysis of data, data graphics and visualization, and working with R-Studio.

**CIS 66            Introduction to Data Communication            5 Units**
**                   and Networking**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; CIS 3 or CIS 93.*
*Five hours lecture (60 hours total per quarter).*
Concepts of communication, data communications, and networks. Overview of connectivity options, common protocols, local and wide area networks.

**CIS 67A            Local Area Networks            4 Units**
*Advisory: CIS 66.*
*Four hours lecture (48 hours total per quarter).*
Fundamental concepts of Local Area Network architecture and protocols. Emphasis on basic concepts needed to design, configure, and implement Local Area Networks. Emphasis on the evolution of Fast Traditional Ethernet, Fast Ethernet, Gigabit Ethernet, Ten-Gigabit Ethernet, ATM, and wireless LANs.

**CIS 67B            Introduction to Wide Area Networking            4 Units**
*Advisory: CIS 67A.*
*Four hours lecture (48 hours total per quarter).*
Fundamental concepts of telephony, telecommunication, and wide area networking. Emphasis on analog and digital transmission techniques. Emphasis on circuit-switching and packet-switching. Exploration of optimization in telecommunication.

**CIS 73            Unix/Linux Systems Programming            4 1/2 Units**
*Prerequisite: CIS 18A and CIS 26B (or CIS 26BH).*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
Coverage of systems programming in the Unix/Linux/Posix environments, with emphasis on low-level Unix/Linux/Posix system calls from C programs and Shell scripts. Discussion of differences in major Unix/Linux/Posix environments.

**CIS 74            Software Quality Assurance            4 1/2 Units**
*Advisory: CIS 40 and CIS 89A.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
Software testing basics - 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 - accessibility, functional, security, performance, visual; breaking software and defect reporting; test-driven development; test case management (TCM) tools; and automating tests for web applications.

**CIS 75A            Internet Concepts and TCP/IP Protocols    5 Units**
*Prerequisite: CIS 66.*
*Advisory: CIS 22A, 26A, 36A or 40; EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
The architecture and underlying protocols of the Internet. The Internet will be examined as a layered product. Layers discussed will include mid-level packet delivery and address computation and high-level client/server applications using the TCP/IP Protocol Suite.

**CIS 75B            Internet Programming with TCP/IP            4 1/2 Units**
*Prerequisite: CIS 26B or CIS 26BH.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; CIS 75A.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
This course covers writing client/server applications using the TCP/IP protocol suite. All server classes - "well known", iterative, concurrent, and polling - will be explored and used. Typical Internet programming problems will be addressed including resource availability, machine addressing, and differences in data representation between communicating computers.

**CIS 75D            Enterprise Security Policy Management            3 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; CIS 75A or equivalent experience.*
*Two hours lecture, three hours laboratory (60 hours total per quarter).*
Concepts of how to secure an enterprise by creating a security policy and developing procedures to maintain that security policy. Perform risk analysis and assessment on enterprise security. System Administrators, IT Managers, and Analysts would benefit from this course, as well as Technologists wanting to broaden their impact.

**CIS 75E            Enterprise Emergency Response            2 Units**
**                   Planning**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours lecture (24 hours total per quarter).*
An exploration of how to plan for emergency response, recover from a disaster and how to mitigate risks. System Administrators, IT managers and Analysts would benefit from this course, as well as Technologists wanting to broaden their impact.

**CIS 77            Special Projects in Computer            1 Unit**
**                   Information Systems**
**CIS 77X                                           2 Units**
**CIS 77Y                                           3 Units**
*Prerequisite: Consent of instructor and division dean.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter). (Hours to be individually arranged.)*
Design, implement, and document a special computer programming project.

**CIS 79            Managing Technology Projects            4 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
Introduction to the theory and practice of the design and management of technology projects, including planning, performing, and monitoring of projects. Subjects explored are estimating costs and schedules, analyzing client expectations, guiding diverse groups of people toward a common goal, while earning a profit. Use of common software packages for project management.

**CIS 82W            Current Topics in Computer            1 Unit**
**                   Information Systems**
**CIS 82X                                           2 Units**
**CIS 82Y                                           3 Units**
**CIS 82Z                                           4 Units**
*Credit course - Does not apply to De Anza associate degree.*
*Requisite/Advisory: None.*
*One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).*
A planned program of exposure to fundamental concepts and applications of selected Computer Information Systems topics. Concepts and theories as applied to the specific topic.

C

**CIS 83**     **Open Computer Information Systems Laboratory**     **1/2 Unit**
*Corequisite: CIS 82W, 82X, 82Y or 82Z.*
*One and one-half hours laboratory (18 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Use of the computer laboratory facilities in conjunction with a computer information systems programming course.

**CIS 89A**     **Web Page Development**     **4 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
Fundamentals of Web page design and creation: designing, encoding, and maintaining pages on the World Wide Web using HTML and CSS.

**CIS 89C**     **Client-Side Programming with JavaScript**     **4 1/2 Units**
*Advisory: CIS 22A and CIS 89A.*
*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 1/2 Units**
*Advisory: EWRT 211 and READ 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course focuses on the role of a project manager including selecting a project, selecting a team, and the documentation and tracking of a project using the Project Manager Book of Knowledge (PMBOK) Theory.

**CIS 95B**     **Project Planning and Control - A Practicum**     **4 Units**
*Advisory: EWRT 211 and READ 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, 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 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 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 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 ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
This course teaches students 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 95H**     **Business and Requirement Analysis**     **4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
This course provides practice to do a needs assessment, planning, analysis, traceability, monitoring and evaluation of business requirements and processes.

**CIS 95J**     **Applying Emotional Intelligence for Effective Project Management**     **3 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 hours total per quarter).*
This course focuses on applying emotional intelligence for 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 95K**     **Program Management - A Practicum**     **4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
This course focuses on the role of a program manager, identifying strategic objectives, manage the program life cycle, manage stakeholder expectations and governance.

**CIS 95L**     **Portfolio Management - A Practicum**     **4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
This course focuses on the role of a portfolio manager, doing a strategic alignment, governance, managing portfolio performance, risk and communication.

**CIS 97**     **FLASH Animation**     **3 Units**
*Advisory: EWRT 200 and READ 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 1/2 Units**
*Advisory: EWRT 200 and READ 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 1/2 Units**
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 1/2 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; CIS 66 and CIS 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 1/2 Units**
*Advisory: EWRT 200 and READ 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 1/2 Units**
*Advisory: EWRT 200 and READ 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.

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

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**CIS 108**      **Personal Computer Security Basics**      **4 1/2 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; CIS 4.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
A beginner's computer security course for small office or home users. Learn to stop hackers, worms, viruses, spyware, web bugs, identity theft, and other cyber threats. Learn vulnerabilities found in web browsers, e-mail, and operating systems. Protect against online purchase dangers, install firewalls, manage cookies, restrict ports, evaluate wireless networks and examine encryption. The course includes numerous hands-on exercises to demonstrate security concepts.

**CIS 170F**      **Windows Administration**      **4 1/2 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; CIS 4.*
*Four hours lecture, one and one-half hours laboratory (66 hours total per quarter).*
This course provides knowledge and skills to set up, configure, use, and support the Microsoft Windows server and workstation operating systems. Windows features including 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 utilizing Windows built-in applications.

# Counseling

**COUN 5**      **Introduction to College**      **1 Unit**
*(Formerly COUN 50.)*
*Requisite/Advisory: None.*
*One hour lecture (12 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
This course is an introduction to De Anza College that includes information about programs, services, policies, degrees, certificates, transfer requirements, and college culture. Students will focus on strategies needed for academic success and development of a preliminary Comprehensive Educational Plan.

**COUN 80X**      **Special Topics in Counseling**      **1 Unit**
**COUN 80Y**      **2 Units**
**COUN 80Z**      **3 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).*
Selected counseling topics with a focus on academic and personal development.

# Dance

**DANC 22**      **Body Awareness and Conditioning for Dancers**      **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Three hours laboratory (36 hours total per quarter).*
*(This course is included in the Ballet and Conditioning Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Principles of dance and conditioning through floor work derived from ballet, contemporary dance and other psycho-physical disciplines. Topics may include but are not limited to: body mechanics, muscle groups critical to dance, flexibility, alignment, self-assessment, dance injury prevention, and strengthening the mind-body connection.

**DANC 22K**      **Theory and Technique of Ballet I**      **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours laboratory (36 hours total per quarter).*
*(This course is included in the Ballet and Conditioning Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Introduction to the discipline and creative art of classical ballet, focusing on the development of elementary movement theory and techniques, including ballet barre and elementary center floor exercises.

**DANC 22L**      **Theory and Technique of Ballet II**      **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: DANC 22K.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours laboratory (36 hours total per quarter).*
*(This course is included in the Ballet and Conditioning Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Study and practice of the discipline and creative art of classical ballet, focusing on barre and center floor work, along with the acquisition of a working ballet vocabulary at a beginning level.

**DANC 22M**      **Theory and Technique of Ballet III**      **1 Unit**
*(Formerly DANC 52M.)*
*(See general education pages for the requirements this course meets.)*
*Prerequisite: DANC 22L.*

*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours laboratory (36 hours total per quarter).*
*(This course is included in the Ballet and Conditioning Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Study and practice of the discipline and creative art of classical ballet, combining: traditional techniques center floor work emphasizing alignment/centering, motion through space, and the acquisition of an intermediate working ballet vocabulary.

**DANC 23A**      **Theory and Technique of Contemporary (Modern) Dance I**      **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Introduction to the discipline and creative art of contemporary modern dance. Students will be instructed in one particular contemporary dance technique (i.e. Limon, Graham, Hawkins, etc.).

**DANC 23B**      **Theory and Technique of Contemporary (Modern) Dance II**      **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: DANC 23A.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Study and practice of the discipline and creative art of contemporary dance focusing on practice, theory, technique, and movement explorations in time and space, in two contemporary dance techniques (i.e. Limon, Graham, etc.).

**DANC 23C**      **Theory and Technique of Contemporary (Modern) Dance III**      **1 Unit**
*(Formerly DANC 53C.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: DANC 23B.*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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).

**DANC 23L**      **Theory and Technique of Hip-Hop I (Popular American Dance)**      **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This course is an introduction to the discipline of creative arts through hip-hop dance with an integrated fitness approach that focuses on developing the stabilization muscles in the center of the body. Students will concentrate on muscles of the torso, back, hips, inner and outer thighs, while the chest and abdominals will be used in conjunction with breathing, posture, and muscle awareness. Students will also be exposed to the great works and artists in the field and develop a working hip-hop dance vocabulary, as the course explores the theory and practice of basic hip-hop techniques.

**DANC 23M**      **Theory and Technique of Hip-Hop II (Popular American Dance II)**      **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: DANC 23L.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This course explores 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. The course includes exposure to great works and multicultural artists of the field and the development of a working hip-hop dance vocabulary and performance skills.

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**DANC 23N**     **Theory and Technique of Hip-Hop III**     **1 Unit**
               **(Popular American Dance III)**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: DANC 23M.*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This course explores 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. The course includes exposure to great works and multicultural artists of the field and development of a working hip-hop dance vocabulary and performance skills.

**DANC 24A**     **Theory and Technique of Social Dance I**     **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 specific dance styles.

**DANC 24B**     **Theory and Technique of Social Dance II**     **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: DANC 24A.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
The art of social dance at an 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 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 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This is an introductory course to the discipline and creative art of salsa dance with exposure to the basic forms of social dance in a salsa dance context. Students will develop a working vocabulary of traditional salsa dance movements and an understanding of the cultural and historical contexts that produced 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 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This is an intermediate course that follows on the creative art skills learned in Dance 25A: Theory and Technique of Salsa Dance I with exposure to intermediate forms of social dance in a salsa dance context. Students will develop a working vocabulary of traditional salsa dance movements and an understanding of the cultural and historical contexts that produced specific dance styles.

**DANC 27A**     **Ballet Workshop (Student Productions)**     **2 Units**
*Advisory: EWRT 200 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the ballet techniques of production and performance.

**DANC 27B**     **Contemporary Modern Dance Workshop**     **2 Units**
               **(Student Productions)**
*Advisory: EWRT 200 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the contemporary dance techniques of production and performance.

**DANC 27C**     **Popular Dance (Jazz, Hip-Hop)**     **2 Units**
               **Workshop (Student Productions)**
*Advisory: EWRT 200 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the popular dance (jazz, hip-hop) techniques of production and performance.

**DANC 27D**     **Social Dance Workshop**     **2 Units**
               **(Student Productions)**
*Advisory: EWRT 200 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
This course is a study of dance as a cultural phenomenon, form of communication, socialization, recreation, artistic expression, and entertainment. Students will explore the history, traditions and works of outstanding artists.

# Design & Manufacturing Technologies

**DMT 52**  **Geometric Dimensioning and**  **2 Units**
  **Tolerancing: CAD Applications**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*One hour lecture, three hours laboratory (48 hours total per quarter).*
This course will focus on 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**  **4 Units**
  **and Rapid Prototyping: Strategies in Industry**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Four hours lecture (48 hours total per quarter).*
The objective of this course is to present a comprehensive overview of 3D Printing, spanning from fundamentals to applications and technology trends. Participants will learn the fundamentals of (AM) Additive Manufacturing/3D Printing of polymers, metals, composites, and biomaterials, and will realize how process capabilities (rate, cost, quality) are determined by the material characteristics, process parameters, and machine designs. Application areas including aerospace components, electronics, high-tech, medical devices, and consumer products will be discussed by means of detailed examples and case studies. Particular emphasis will be placed on concepts of industry applications, and related design principles and process standards. In class sessions will run live demonstrations with state-of-the-art industry grade 3D Printers, 3D Laser scanners and reverse engineering tools. Participants will understand how to design, fabricate, and measure test parts, and explore Additive Manufacturing process limits as well as appropriate applications of these technologies.

**DMT 54**  **3D Printing/Additive Manufacturing:**  **4 Units**
  **Theory and Practice**
*Prerequisite: DMT 53.*
*Four hours lecture (48 hours total per quarter).*
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.

**DMT 55**  **Survey of Design and Manufacturing**  **4 Units**
  **Processes/Modern Fabrication**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Four hours lecture (48 hours total per quarter).*
This survey course is designed to introduce students to both design, manufacturing and modern fabrication, by means of demonstrations, with the following areas of emphasis: manufacturing processes, equipment and systems, design for manufacturing, measurement tools, blueprint reading, rapid prototyping (3D printers), CNC machine set-up, CNC machine programming (lathe and mill), CAD/CAM and quality control using geometric dimensioning and tolerancing (GD&T). This hands on, team based course is designed to provide students with instruction and skills through applied real world experience to enable insight as to how products are designed and fabricated. Students will be able to identify the terminology of each area, examine each technique and skill requirement, and gain a fundamental understanding of diverse industry processes.

**DMT 60A**  **SolidWorks (Introduction)**  **4 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the fundamentals of computer-aided design and drafting using SolidWorks software, and applications of SolidWorks in creating manufacturing models (parts, assemblies, and drawings).

**DMT 60B**  **SolidWorks (Introduction)**  **4 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the fundamentals of computer-aided design and drafting using SolidWorks software, and applications of SolidWorks in creating manufacturing models (parts, assemblies, and drawings).

**DMT 60C**  **SolidWorks (Introduction)**  **4 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the fundamentals of computer-aided design and drafting using SolidWorks software, and applications of SolidWorks in creating manufacturing models (parts, assemblies, and drawings).

**DMT 60D**  **SolidWorks (Introduction)**  **4 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the fundamentals of computer-aided design and drafting using SolidWorks software, and applications of SolidWorks in creating manufacturing models (parts, assemblies, and drawings).

**DMT 60E**  **SolidWorks (Introduction)**  **4 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the fundamentals of computer-aided design and drafting using SolidWorks software, and applications of SolidWorks in creating manufacturing models (parts, assemblies, and drawings).

**DMT 61A**  **SolidWorks (Intermediate)**  **4 Units**
*Prerequisite: Any DMT 60A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the intermediate-level application of SolidWorks in creating and maintaining solid models and drawings. Special emphasis is given to the creation and development of new drawings based on preexisting solid models.

**DMT 61B**  **SolidWorks (Intermediate)**  **4 Units**
*Prerequisite: Any DMT 60A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the intermediate-level application of SolidWorks in creating and maintaining solid models and drawings. Special emphasis is given to the creation and development of new drawings based on preexisting solid models.

**DMT 61C**  **SolidWorks (Intermediate)**  **4 Units**
*Prerequisite: Any DMT 60A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the intermediate-level application of SolidWorks in creating and maintaining solid models and drawings. Special emphasis is given to the creation and development of new drawings based on preexisting solid models.

**DMT 61D**  **SolidWorks (Intermediate)**  **4 Units**
*Prerequisite: Any DMT 60A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the intermediate-level application of SolidWorks in creating and maintaining solid models and drawings. Special emphasis is given to the creation and development of new drawings based on preexisting solid models.

**DMT 61E**  **SolidWorks (Intermediate)**  **4 Units**
*Prerequisite: Any DMT 60A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the intermediate-level application of SolidWorks in creating and maintaining solid models and drawings. Special emphasis is given to the creation and development of new drawings based on preexisting solid models.

**DMT 62A**  **SolidWorks: Top-Down Design and**  **4 Units**
  **Advanced System Tools**
*Prerequisite: Any DMT 61A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Advanced 3D Solid Modeling techniques using SolidWorks. Emphasis is on Advanced Assembly Mates, Large Assembly Management Tools, and Top-Down Design. In addition, time is given to safe and proper development of new Solid Models and Drawing Documents from legacy solid models, using so-called Top-Down Assembly techniques.

**DMT 62B**  **SolidWorks: Top-Down Design and**  **4 Units**
  **Advanced System Tools**
*Prerequisite: Any DMT 61A-E course.*
*Two hours lecture, six hours laboratory (96 hors total per quarter).*
Advanced 3D Solid Modeling techniques using SolidWorks. Emphasis is on Advanced Assembly Mates, Large Assembly Management Tools, and Top-Down Design. In addition, time is given to safe and proper development of new Solid Models and Drawing Documents from legacy solid models, using so-called Top-Down Assembly techniques.

**DMT 62C**  **SolidWorks: Top-Down Design and**  **4 Units**
  **Advanced System Tools**
*Prerequisite: Any DMT 61A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Advanced 3D Solid Modeling techniques using SolidWorks. Emphasis is on Advanced Assembly Mates, Large Assembly Management Tools, and Top-Down Design. In addition, time is given to safe and proper development of new Solid Models and Drawing Documents from legacy solid models, using so-called Top-Down Assembly techniques.

**DMT 62D**  **SolidWorks: Top-Down Design and**  **4 Units**
  **Advanced System Tools**
*Prerequisite: Any DMT 61A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Advanced 3D Solid Modeling techniques using SolidWorks. Emphasis is on Advanced Assembly Mates, Large Assembly Management Tools, and Top-Down Design. In addition, time is given to safe and proper development of new Solid Models and Drawing Documents from legacy solid models, using so-called Top-Down Assembly techniques.

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**DMT 62E    SolidWorks: Top-Down Design and        4 Units
             Advanced System Tools**
*Prerequisite: Any DMT 61A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Advanced 3D Solid Modeling techniques using SolidWorks. Emphasis is on Advanced Assembly Mates, Large Assembly Management Tools, and Top-Down Design. In addition, time is given to safe and proper development of new Solid Models and Drawing Documents from legacy solid models, using so-called Top-Down Assembly techniques.

**DMT 63A    SolidWorks: Surface Modeling        4 Units**
*Prerequisite: Any DMT 60A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Surface design using SolidWorks software to create organic 3D shapes that follow processed-based (or task-based) approach to modeling. Application of multifaceted surfaces features in designing product models and molds for industry.

**DMT 63B    SolidWorks: Surface Modeling        4 Units**
*Prerequisite: Any DMT 60A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Surface design using SolidWorks software to create organic 3D shapes that follow processed-based (or task-based) approach to modeling. Application of multifaceted surfaces features in designing product models and molds for industry.

**DMT 63C    SolidWorks: Surface Modeling        4 Units**
*Prerequisite: Any DMT 60A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Surface design using SolidWorks software to create organic 3D shapes that follow processed-based (or task-based) approach to modeling. Application of multifaceted surfaces features in designing product models and molds for industry.

**DMT 63D    SolidWorks: Surface Modeling        4 Units**
*Prerequisite: Any DMT 60A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Surface design using SolidWorks software to create organic 3D shapes that follow processed-based (or task-based) approach to modeling. Application of multifaceted surfaces features in designing product models and molds for industry.

**DMT 63E    SolidWorks: Surface Modeling        4 Units**
*Prerequisite: Any DMT 60A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Surface design using SolidWorks software to create organic 3D shapes that follow processed-based (or task-based) approach to modeling. Application of multifaceted surfaces features in designing product models and molds for industry.

**DMT 64A    SolidWorks Simulation        4 Units
             (Finite Element Analysis)**
*Prerequisite: Any DMT 60A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the application of SolidWorks Simulation using Finite Element Analysis (FEA) to validate and optimize 3D models by measuring stress and displacement distributions of new designs through simulating responses to structural and thermal loads.

**DMT 64B    SolidWorks Simulation        4 Units
             (Finite Element Analysis)**
*Prerequisite: Any DMT 60A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the application of SolidWorks Simulation using Finite Element Analysis (FEA) to validate and optimize 3D models by measuring stress and displacement distributions of new designs through simulating responses to structural and thermal loads.

**DMT 64C    SolidWorks Simulation        4 Units
             (Finite Element Analysis)**
*Prerequisite: Any DMT 60A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the application of SolidWorks Simulation using Finite Element Analysis (FEA) to validate and optimize 3D models by measuring stress and displacement distributions of new designs through simulating responses to structural and thermal loads.

**DMT 64D    SolidWorks Simulation        4 Units
             (Finite Element Analysis)**
*Prerequisite: Any DMT 60A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the application of SolidWorks Simulation using Finite Element Analysis (FEA) to validate and optimize 3D models by measuring stress and displacement distributions of new designs through simulating responses to structural and thermal loads.

**DMT 64E    SolidWorks Simulation        4 Units
             (Finite Element Analysis)**
*Prerequisite: Any DMT 60A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the application of SolidWorks Simulation using Finite Element Analysis (FEA) to validate and optimize 3D models by measuring stress and displacement distributions of new designs through simulating responses to structural and thermal loads.

**DMT 65A    Creo Parametric (Introduction)        4 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the fundamentals of computer-aided design using Creo Parametric. Application of Creo Parametric software in creating manufacturing models, understanding parametric, parent-child derived features to create 3-D parts, assemblies, and drawings.

**DMT 65B    Creo Parametric (Introduction)        4 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the fundamentals of computer-aided design using Creo Parametric. Application of Creo Parametric software in creating manufacturing models, understanding parametric, parent-child derived features to create 3-D parts, assemblies, and drawings.

**DMT 65C    Creo Parametric (Introduction)        4 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the fundamentals of computer-aided design using Creo Parametric. Application of Creo Parametric software in creating manufacturing models, understanding parametric, parent-child derived features to create 3-D parts, assemblies, and drawings.

**DMT 65D    Creo Parametric (Introduction)        4 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the fundamentals of computer-aided design using Creo Parametric. Application of Creo Parametric software in creating manufacturing models, understanding parametric, parent-child derived features to create 3-D parts, assemblies, and drawings.

**DMT 65E    Creo Parametric (Introduction)        4 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the fundamentals of computer-aided design using Creo Parametric. Application of Creo Parametric software in creating manufacturing models, understanding parametric, parent-child derived features to create 3-D parts, assemblies, and drawings.

**DMT 66A    Creo Parametric (Intermediate)        4 Units**
*Prerequisite: Any DMT 65A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the intermediate-level application of Creo Parametric that expands the basic knowledge and understanding of solid models and drawings. Special emphasis is given to the creation of parts, assemblies, and drawings which are more complex and technically more difficult than those projects found in the course prerequisite.

**DMT 66B    Creo Parametric (Intermediate)        4 Units**
*Prerequisite: Any DMT 65A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the intermediate-level application of Creo Parametric that expands the basic knowledge and understanding of solid models and drawings. Special emphasis is given to the creation of parts, assemblies, and drawings which are more complex and technically more difficult than those projects found in the course prerequisite.

**DMT 66C    Creo Parametric (Intermediate)        4 Units**
*Prerequisite: Any DMT 65A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the intermediate-level application of Creo Parametric that expands the basic knowledge and understanding of solid models and drawings. Special emphasis is given to the creation of parts, assemblies, and drawings which are more complex and technically more difficult than those projects found in the course prerequisite.

**DMT 66D    Creo Parametric (Intermediate)        4 Units**
*Prerequisite: Any DMT 65A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the intermediate-level application of Creo Parametric that expands the basic knowledge and understanding of solid models and drawings. Special emphasis is given to the creation of parts, assemblies, and drawings which are more complex and technically more difficult than those projects found in the course prerequisite.

**DMT 66E        Creo Parametric (Intermediate)        4 Units**
*Prerequisite: Any DMT 65A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
This course covers the intermediate-level application of Creo Parametric that expands the basic knowledge and understanding of solid models and drawings. Special emphasis is given to the creation of parts, assemblies, and drawings which are more complex and technically more difficult than those projects found in the course prerequisite.

**DMT 67A        Creo Parametric: Top-Down Design        4 Units**
**and Advanced System Tools**
*Prerequisite: Any DMT 65A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Advanced 3D Solid Modeling techniques using Creo Parametric. Emphasis is on Advanced Assembly Mates, Large Assembly Management Tools, and Top-Down Design. In addition, time is given to safe and proper development of new Solid Models and Drawing Documents from legacy solid models, using Top-Down Assembly techniques. Exploration of intricate models (parts, assemblies, sheetmetal and complex feature sets).

**DMT 67B        Creo Parametric: Top-Down Design        4 Units**
**and Advanced System Tools**
*Prerequisite: Any DMT 65A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Advanced 3D Solid Modeling techniques using Creo Parametric. Emphasis is on Advanced Assembly Mates, Large Assembly Management Tools, and Top-Down Design. In addition, time is given to safe and proper development of new Solid Models and Drawing Documents from legacy solid models, using Top-Down Assembly techniques. Exploration of intricate models (parts, assemblies, sheetmetal and complex feature sets).

**DMT 67C        Creo Parametric: Top-Down Design        4 Units**
**and Advanced System Tools**
*Prerequisite: Any DMT 65A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Advanced 3D Solid Modeling techniques using Creo Parametric. Emphasis is on Advanced Assembly Mates, Large Assembly Management Tools, and Top-Down Design. In addition, time is given to safe and proper development of new Solid Models and Drawing Documents from legacy solid models, using Top-Down Assembly techniques. Exploration of intricate models (parts, assemblies, sheetmetal and complex feature sets).

**DMT 67D        Creo Parametric: Top-Down Design        4 Units**
**and Advanced System Tools**
*Prerequisite: Any DMT 65A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Advanced 3D Solid Modeling techniques using Creo Parametric. Emphasis is on Advanced Assembly Mates, Large Assembly Management Tools, and Top-Down Design. In addition, time is given to safe and proper development of new Solid Models and Drawing Documents from legacy solid models, using Top-Down Assembly techniques. Exploration of intricate models (parts, assemblies, sheetmetal and complex feature sets).

**DMT 67E        Creo Parametric: Top-Down Design        4 Units**
**and Advanced System Tools**
*Prerequisite: Any DMT 65A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Advanced 3D Solid Modeling techniques using Creo Parametric. Emphasis is on Advanced Assembly Mates, Large Assembly Management Tools, and Top-Down Design. In addition, time is given to safe and proper development of new Solid Models and Drawing Documents from legacy solid models, using Top-Down Assembly techniques. Exploration of intricate models (parts, assemblies, sheetmetal and complex feature sets).

**DMT 68A        Creo Parametric Surface Modeling        4 Units**
*Prerequisite: Any DMT 65A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Parametric and free-form surfacing methodologies in Creo are used to create organic 3D shapes that follow a processed-based (or task-based) approach to modeling. This course includes the application of multifaceted surface features in designing product models and molds for industry.

**DMT 68B        Creo Parametric Surface Modeling        4 Units**
*Prerequisite: Any DMT 65A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Parametric and free-form surfacing methodologies in Creo are used to create organic 3D shapes that follow a processed-based (or task-based) approach to modeling. This course includes the application of multifaceted surface features in designing product models and molds for industry.

**DMT 68C        Creo Parametric Surface Modeling        4 Units**
*Prerequisite: Any DMT 65A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Parametric and free-form surfacing methodologies in Creo are used to create organic 3D shapes that follow a processed-based (or task-based) approach to modeling. This course includes the application of multifaceted surface features in designing product models and molds for industry.

**DMT 68D        Creo Parametric Surface Modeling        4 Units**
*Prerequisite: Any DMT 65A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Parametric and free-form surfacing methodologies in Creo are used to create organic 3D shapes that follow a processed-based (or task-based) approach to modeling. This course includes the application of multifaceted surface features in designing product models and molds for industry.

**DMT 68E        Creo Parametric Surface Modeling        4 Units**
*Prerequisite: Any DMT 65A-E course.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Parametric and free-form surfacing methodologies in Creo are used to create organic 3D shapes that follow a processed-based (or task-based) approach to modeling. This course includes the application of multifaceted surface features in designing product models and molds for industry.

**DMT 70A        Introduction to Computer Aided        4 Units**
**Design Using AutoCAD**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Introduction-level computer-aided design and drafting using AutoCAD software. Emphasis on 2D drawings and dimensioning.

**DMT 70B        Introduction to Computer Aided        4 Units**
**Design Using AutoCAD**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Introduction-level computer-aided design and drafting using AutoCAD software. Emphasis on 2D drawings and dimensioning.

**DMT 70C        Introduction to Computer Aided        4 Units**
**Design Using AutoCAD**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Introduction-level computer-aided design and drafting using AutoCAD software. Emphasis on 2D drawings and dimensioning.

**DMT 70D        Introduction to Computer Aided        4 Units**
**Design Using AutoCAD**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Introduction-level computer-aided design and drafting using AutoCAD software. Emphasis on 2D drawings and dimensioning.

**DMT 70E        Introduction to Computer Aided        4 Units**
**Design Using AutoCAD**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Introduction-level computer-aided design and drafting using AutoCAD software. Emphasis on 2D drawings and dimensioning.

**DMT 73A        Introduction to Computer Aided        4 Units**
**Design Using Autodesk Inventor**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Introduction-level computer-aided design and drafting using AutoDesk Inventor software. Application of AutoDesk Inventor in creating manufacturing models (parts, assemblies and drawings).

**DMT 73B        Introduction to Computer Aided        4 Units**
**Design Using Autodesk Inventor**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Introduction-level computer-aided design and drafting using AutoDesk Inventor software. Application of AutoDesk Inventor in creating manufacturing models (parts, assemblies and drawings).

**DMT 73C        Introduction to Computer Aided        4 Units**
**Design Using Autodesk Inventor**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Introduction-level computer-aided design and drafting using AutoDesk Inventor software. Application of AutoDesk Inventor in creating manufacturing models (parts, assemblies and drawings).

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

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**DMT 73D** **Introduction to Computer Aided** **4 Units**
**Design Using Autodesk Inventor**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Introduction-level computer-aided design and drafting using AutoDesk Inventor software. Application of AutoDesk Inventor in creating manufacturing models (parts, assemblies and drawings).

**DMT 73E** **Introduction to Computer Aided** **4 Units**
**Design Using Autodesk Inventor**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Introduction-level computer-aided design and drafting using AutoDesk Inventor software. Application of AutoDesk Inventor in creating manufacturing models (parts, assemblies and drawings).

**DMT 75A** **Introduction to Computer Aided** **4 Units**
**Design Using Siemens NX**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Introduction-level application of Siemens NX in manufacturing models. This course covers solid modeling, assemblies and drawings.

**DMT 75B** **Introduction to Computer Aided** **4 Units**
**Design Using Siemens NX**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Introduction-level application of Siemens NX in manufacturing models. This course covers solid modeling, assemblies and drawings.

**DMT 75C** **Introduction to Computer Aided** **4 Units**
**Design Using Siemens NX**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Introduction-level application of Siemens NX in manufacturing models. This course covers solid modeling, assemblies and drawings.

**DMT 75D** **Introduction to Computer Aided** **4 Units**
**Design Using Siemens NX**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Introduction-level application of Siemens NX in manufacturing models. This course covers solid modeling, assemblies and drawings.

**DMT 75E** **Introduction to Computer Aided** **4 Units**
**Design Using Siemens NX**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Two hours lecture, six hours laboratory (96 hours total per quarter).*
Introduction-level application of Siemens NX in manufacturing models. This course covers solid modeling, assemblies and drawings.

**DMT 77A** **Special Projects In Manufacturing** **2 Units**
**and CNC/Mastercam Certification Level 1**
*(Formerly MCNC 80A.)*
*Prerequisite: Consent of instructor and division dean.*
*Six hours laboratory (72 hours total per quarter).*
Projects advancing student's knowledge and experience in computer numerical control machining using Mastercam CAD/CAM software, a selected area of 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.

**DMT 77B** **Special Projects In Manufacturing** **2 Units**
**and CNC/Mastercam Certification Level 2**
*(Formerly MCNC 80B.)*
*Prerequisite: Consent of instructor and division dean.*
*Six hours laboratory (72 hours total per quarter).*
Projects advancing student's knowledge and experience in computer numerical control machining using Mastercam CAD/CAM software, a selected area of 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.

**DMT 77C** **Special Projects In Manufacturing** **2 Units**
**and CNC/Mastercam Certification Level 3**
*(Formerly MCNC 80C.)*
*Prerequisite: Consent of instructor and division dean.*
*Six hours laboratory (72 hours total per quarter).*
Projects advancing student's knowledge and experience in computer numerical control machining using Mastercam CAD/CAM software, a selected area of 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.

**DMT 77D** **Special Projects In Manufacturing** **2 Units**
**and CNC/NIMS Level 1**
*(Formerly MCNC 80D.)*
*Prerequisite: Consent of instructor and division dean.*
*Six hours laboratory (72 hours total per quarter).*
Projects advancing student's knowledge and experience in computer numerical control and conventional machining, selected areas of 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.

**DMT 77E** **Special Projects In Manufacturing** **2 Units**
**and CNC/NIMS Level 2**
*(Formerly MCNC 80E.)*
*Prerequisite: Consent of instructor and division dean.*
*Six hours laboratory (72 hours total per quarter).*
Projects advancing student's knowledge and experience in computer numerical control and conventional machining, selected areas of 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.

**DMT 77F** **Special Projects In Manufacturing** **2 Units**
**and CNC/NIMS Level 3**
*(Formerly MCNC 80F.)*
*Prerequisite: Consent of instructor and division dean.*
*Six hours laboratory (72 hours total per quarter).*
Projects advancing student's knowledge and experience in computer numerical control, a selected area of 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.

**DMT 77G** **Special Projects in 3D Printing/** **2 Units**
**Additive Manufacturing**
*Prerequisite: Consent of instructor and division dean.*
*Six hours laboratory (72 hours total per quarter).*
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.

**DMT 77H** **Special Projects for Additive** **2 Units**
**Manufacturing in the Digital Factories**
*Prerequisite: Consent of instructor and division dean.*
*Six hours laboratory (72 hours total per quarter).*
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.

**DMT 77J** **Special Projects in Additive** **2 Units**
**Manufacturing for Rapid Prototyping**
*Prerequisite: Consent of instructor and division dean.*
*Six hours laboratory (72 hours total per quarter).*
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.

**DMT 77X** **Special Projects in CAD** **1 Unit**
**DMT 77Y** **2 Units**
**DMT 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).*
This course involves projects advancing students' knowledge and experience in a selected area of Computer-Aided Design. Students will complete project objectives/requirements as determined in 3, 4, and 5 of the Special Projects Contract.

**DMT 80** **Introduction to Machining and CNC** **5 Units**
**Processes**
*(Formerly MCNC 71.)*
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Three hours lecture, six hours laboratory (108 hours total per quarter).*
Manufacturing lab safety. Precision measuring tools and practices. Basic manual machine operations: pedestal grinders, drill presses, saws, lathes and milling machines. Threads: types, applications and use of taps and dies. Computer Numerical Control (CNC) mills: axis moves, cutters, tooling, basic setup and controller function. Cutter speed and feed calculations.

**DMT 82** **Advanced Conventional Machine Tools,** **5 Units**
**Tool Design, Abrasive Machining**

*(Formerly MCNC 77.)*
*Prerequisite: DMT 80 with a grade of C or better or equivalent.*
*Three hours lecture, six hours laboratory (108 hours total per quarter).*
Advanced machining and abrasive machining practices using conventional machine tools and surface grinders. Introduction to fixture design including location, clamping methods and computation of fits and allowances.

**DMT 84A** **Introduction to CNC Programming and** **5 Units**
**Operation; Mill**

*(Formerly MCNC 75A.)*
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210*
*or equivalent; DMT 80 or experience in machining processes.*
*Three hours lecture, six hours laboratory (108 hours total per quarter).*
Introduction to mill tool path programming using G & M code format. CNC systems and components including machine controller functions and operations. Program entry, editing, and verification. Calculation for mill cutter compensation. Precision inspection techniques. Basic mill setups, including cutting tool selection, and work holding.

**DMT 84B** **CNC Programming and Operation;** **5 Units**
**Intermediate Mill**

*(Formerly MCNC 75B.)*
*Prerequisite: DMT 84A or equivalent with a grade of C or better.*
*Three hours lecture, six hours laboratory (108 hours total per quarter).*
Intermediate CNC Mill tool path programming using word address format, including coordinate system, cutter compensation and canned cycles. Intermediate mill programming using sub programs, alternate work coordinate systems and macros. Program entry, editing, and back plotting. Machine controller functions and operations. Single point threading and Unified thread form classes and measurement. Indexable tool insert selection.

**DMT 84C** **CNC Lathes-Horizontal Mill-4th Axis** **5 Units**
**Rotary-Programming Operations**

*(Formerly MCNC 75C.)*
*Prerequisite: DMT 84A or equivalent work experience.*
*Three hours lecture, six hours laboratory (108 hours total per quarter).*
CNC lathe tool path programming using G&M code format, including tool orientation, compensation and canned cycles. Programming for CNC horizontal machining centers and 4th axis rotary tables. Horizontal machining center and lathe controller functions, setup and operations. Fixture design for mills and lathes; base plate layout, supporting, locating, and clamping practices.

**DMT 87D** **CAD/CAM Programming Using** **5 Units**
**Mastercam**

*(Formerly MCNC 76D.)*
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210*
*or equivalent; basic understanding of mills and lathe operations.*
*Three hours lecture, six hours laboratory (108 hours total per quarter).*
Introduction to Mastercam three axis mill programming. Create part geometry, define tools and tool paths, using post-processors to produce word-address format programs.

**DMT 87J** **CAD/CAM Based CNC Surface** **5 Units**
**Contouring Programming Using Mastercam**

*(Formerly MCNC 76J.)*
*Prerequisite: Any DMT 87A-E course.*
*Three hours lecture, six hours laboratory (108 hours total per quarter).*
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.

**DMT 87N** **CAD/CAM Based CNC 4 and 5 Axis** **5 Units**
**Mill/Lathe Programming Using Mastercam**

*(Formerly MCNC 76N.)*
*Prerequisite: Any DMT 87A-E course.*
*Three hours lecture, six hours laboratory (108 hours total per quarter).*
Advanced Mastercam multiaxis toolpaths for horizontal milling machines, vertical milling machines with rotary 4th axis, five axis indexing machining centers and CNC lathe with live tooling. Tooling, process, fixture design, work holding techniques and toolpath applications with rotary axis.

**DMT 89A** **CAM Based CNC Multi-Axis** **5 Units**
**Programming Using NX**

*(Formerly MCNC 78A.)*
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210*
*or equivalent.*
*Three hours lecture, six hours laboratory (108 hours total per quarter).*
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.

**DMT 89B** **CAM Based CNC Multi-Axis** **5 Units**
**Programming Using NX**

*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210*
*or equivalent.*
*Three hours lecture, six hours laboratory (108 hours total per quarter).*
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.

**DMT 89C** **CAM Based CNC Multi-Axis** **5 Units**
**Programming Using NX**

*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210*
*or equivalent.*
*Three hours lecture, six hours laboratory (108 hours total per quarter).*
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.

**DMT 89D** **CAM Based CNC Multi-Axis** **5 Units**
**Programming Using NX**

*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210*
*or equivalent.*
*Three hours lecture, six hours laboratory (108 hours total per quarter).*
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.

**DMT 89E** **CAM Based CNC Multi-Axis** **5 Units**
**Programming Using NX**

*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210*
*or equivalent.*
*Three hours lecture, six hours laboratory (108 hours total per quarter).*
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.

**DMT 90** **Print Reading and Machine Shop** **4 1/2 Units**
**Calculations**

*(Formerly MCNC 60.)*
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210*
*or equivalent.*
*Four and one-half hours lecture (54 hours total per quarter).*
Interpretation of multi-view engineering blue prints, visualization techniques, auxiliary and section views. Appraisal of revision columns, title blocks and bill of materials. Introduction to geometric dimensioning and tolerancing (GD&T) using ANSI and ISO standards. Review of calculations used to solve common problems found in print interpretation and inspection.

**DMT 91** **Dimensional Metrology** **4 1/2 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210*
*or equivalent.*
*Four and one-half hours lecture (54 hours total per quarter).*
Applications and capabilities of semi-precision and precision measuring tools, including scaled, vernier and digital instruments, used in manufacturing environments to inspect production and prototype parts. Introduction to the use of the optical comparator and CMM (coordinate measuring machine)

**DMT 92** **Applied GD&T (ASME Y14.5m);** **4 Units**
**Coordinate Measuring Machines (CMM)**

*(Formerly MCNC 72.)*
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210*
*or equivalent; experience in blueprint reading.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
Interpretation of specifications and inspection procedures related to current ASME Y14.5 Geometric Dimensioning and Tolerancing (GD&T) standards. Applications and capabilities of precision measuring tools, including the computer-aide Coordinate Measuring Machine (CMM), used in manufacturing environments to inspect discrete complex parts. Machine and inspected part set-up for measuring form, orientation, and position call outs.

**DMT 93** **Introduction to Quality Assurance** **4 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210*
*or equivalent.*
*Four hours lecture (48 hours total per quarter).*
Introduction to the measurement and statistical processes and inspection methods used by quality control technicians. Evaluation and design of equipment calibration systems and programs. Investigation of different continuous improvement techniques and programs, including Total Quality Management (TQM) and Statistical Process Control (SPC). Review of quality audit systems as well as failure analysis and troubleshooting tools.

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

**D**

**DMT 95**      **Manufacturing Materials and Processes**      **4 Units**
*(Formerly MCNC 64.)*
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
Applied materials and process analysis. Materials and process selection techniques. The role of metals, polymers, ceramics and composites in the casting, molding, forging, forming, machining, joining, heat and surface treatment processes.

**DMT 101**      **CAD Technology Laboratory Creo**      **2 Units**
                **Parametric (Beginning)**
*(Formerly CDI 101Z.)*
*Requisite/Advisory: None.*
*Six hours laboratory (72 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Self-paced introductory projects and computer based training on Creo software. Instruction is in the use of CAD technology using projects from other Creo courses. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in Creo software.

**DMT 102**      **CAD Technology Laboratory**      **2 Units**
                **SolidWorks (Beginning)**
*(Formerly CDI 102Z.)*
*Requisite/Advisory: None.*
*Six hours laboratory (72 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Self-paced introductory projects and computer based training on SolidWorks software. Instruction is in the use of CAD technology using projects from other SolidWorks courses. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in SolidWorks software.

**DMT 103**      **CAD Technology Laboratory Creo**      **2 Units**
                **Parametric (Intermediate)**
*(Formerly CDI 103Z.)*
*Requisite/Advisory: None.*
*Six hours laboratory (72 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Self-paced intermediate projects and computer based training on Creo software. Instruction is in the use of CAD technology using projects from other Creo courses. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in Creo software.

**DMT 104**      **CAD Technology Laboratory**      **2 Units**
                **SolidWorks (Intermediate)**
*(Formerly CDI 104Z.)*
*Requisite/Advisory: None.*
*Six hours laboratory (72 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Self-paced intermediate projects and computer based training on SolidWorks software. Instruction is in the use of CAD technology using projects from other SolidWorks courses. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in SolidWorks software.

**DMT 105**      **CAD Technology Laboratory Creo**      **2 Units**
                **Parametric (Advanced)**
*(Formerly CDI 105Z.)*
*Requisite/Advisory: None.*
*Six hours laboratory (72 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Self-paced advanced projects and computer based training on Creo software. Instruction is in the use of CAD technology using advanced extended projects based on other Creo courses. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in Creo software.

**DMT 106**      **CAD Technology Laboratory**      **2 Units**
                **SolidWorks (Advanced)**
*(Formerly CDI 106Z.)*
*Requisite/Advisory: None.*
*Six hours laboratory (72 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Self-paced advanced projects and computer based training on SolidWorks software. Instruction is in the use of CAD technology using projects from other SolidWorks courses. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in SolidWorks software.

**DMT 107**      **CAD Technology Laboratory Creo**      **2 Units**
                **Parametric (Surfaces)**
*(Formerly CDI 107Z.)*
*Requisite/Advisory: None.*
*Six hours laboratory (72 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Self-paced projects and computer based training on Creo software. Instruction is in the use of CAD technology using projects from other Creo courses. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in Creo software.

**DMT 108**      **CAD Technology Laboratory**      **2 Units**
                **SolidWorks (Surfaces)**
*(Formerly CDI 108Z.)*
*Requisite/Advisory: None.*
*Six hours laboratory (72 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Self-paced projects and computer based training on SolidWorks software. Instruction is in the use of CAD technology using projects from other SolidWorks courses. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in SolidWorks software.

**DMT 109**      **CAD Technology Laboratory Creo**      **2 Units**
                **Parametric (Sheetmetal)**
*(Formerly CDI 109Z.)*
*Requisite/Advisory: None.*
*Six hours laboratory (72 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Self-paced projects and computer based training on Creo software. Instruction is in the use of CAD technology using projects from other Creo courses. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in Creo software.

**DMT 110**      **CAD Technology Laboratory Geometric**      **2 Units**
                **Dimensioning and Tolerancing**
*(Formerly CDI 110Z.)*
*Requisite/Advisory: None.*
*Six hours laboratory (72 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Self-paced projects and computer based training on CAD software. Instruction is in the use of CAD technology to create models and drawings complying with ANSI Y14.5 Geometric Dimensioning and Tolerancing. Learning assistance is provided in a designated De Anza center by an approved De Anza instructor who is trained in CAD software.

**DMT 201**      **Manufacturing and CNC Technology**      **2 Units**
                **Laboratory/Conventional Machining 1**
*(Formerly MCNC 201.)*
*Credit course - Does not apply to De Anza associate degree.*
*Corequisite: 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**      **2 Units**
                **Laboratory/CNC Machining 1**
*(Formerly MCNC 202.)*
*Credit course - Does not apply to De Anza associate degree.*
*Corequisite: 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**      **2 Units**
                **Laboratory/CNC Machining 2**
*(Formerly MCNC 203.)*
*Credit course - Does not apply to De Anza associate degree.*
*Corequisite: 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**      **2 Units**
                **Laboratory/CNC Machining 3**
*(Formerly MCNC 204.)*
*Credit course - Does not apply to De Anza associate degree.*
*Corequisite: 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**      **2 Units**
                **Laboratory/CAD CAM Programming 1**
*(Formerly MCNC 205.)*
*Credit course - Does not apply to De Anza associate degree.*
*Corequisite: 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.

# Digital Media

*(See Film and Television Production for course listings.)*

# Drama

*(See Dance and/or Theatre Arts for 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 (EWRT 1AS and EWRT 1AT) 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 -**      **4 Units**
                **HONORS**
*(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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 -**      **4 Units**
                **HONORS**
*(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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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**      **3 Units**
                **Education in a Diverse Society**
*Advisory: EWRT 211 and READ 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 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.

**E**

# Educational Access
*(Formerly Special Education)*

**EDAC 1 Introduction to College and Accommodations** — **1 1/2 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 20 Universal Design and Accessibility** — **4 Units**

*(Formerly EDAC 54.)*
*Advisory: EWRT 211 and READ 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.

| EDAC 234 | Civic Responsibility | 1 Unit |
|---|---|---|
| EDAC 234R | | 2 Units |
| EDAC 234S | | 3 Units |
| EDAC 234T | | 4 Units |
| EDAC 234U | | 5 Units |
| EDAC 234V | | 6 Units |
| EDAC 234W | | 7 Units |
| EDAC 234X | | 8 Units |
| EDAC 234Y | | 9 Units |
| EDAC 234Z | | 10 Units |

*(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.

| EDAC 235 | Transition to Campus | 1 Unit |
|---|---|---|
| EDAC 235R | | 2 Units |
| EDAC 235S | | 3 Units |
| EDAC 235T | | 4 Units |
| EDAC 235U | | 5 Units |
| EDAC 235V | | 6 Units |
| EDAC 235W | | 7 Units |
| EDAC 235X | | 8 Units |
| EDAC 235Y | | 9 Units |
| EDAC 235Z | | 10 Units |

*(Formerly SPED 235, 235R-Z respectively.)*
*Credit course - Does not apply to De Anza associate degree.*
*Requisite/Advisory: None.*

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

E

*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.

**EDAC 240     Assistive Technology Access Evaluation    1/2 Unit**
*(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.*
This course provides a 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.

**EDAC 245     Assistive Technology Access (Windows)    2 Units**
*(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).*
This course is a development of basic skills in the use of computer access technologies to enhance the ability of students with disabilities to access and use computer technology in the context of word processing and other relevant applications.

**EDAC 290X     Assistive Technology Access Practice    1/2 Unit**
**EDAC 290Y                                                1 Unit**
*(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.*
This course provides students with individualized development skills in the analysis and use of assistive technology in an adapted computer laboratory.

**EDAC 300     Workplace Communication Skills    0 Units**
*Requisite/Advisory: None.*
*Two hours lecture (24 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
This course focuses on the proper communication skills in written business formats, verbal presentations, and appropriate body language styles in order for students to be able to communicate effectively in competitive employment settings

**EDAC 304     Soft Skills    0 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture (24 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
Effective soft skills, communication skills, and problem solving skills will be examined and identified. Students will practice such skills in collaborative projects, role-playing activities, and in real-life situations.

**EDAC 307     Notetaking Technologies and Strategies    0 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture (24 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
A review of digital notetaking technologies and related strategies that enhance learning and retention of information, and support students' specific learning styles.

**EDAC 312     Basic English Skills for Students    0 Units**
**               with Disabilities**
*Requisite/Advisory: None.*
*Two hours lecture (24 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
Basic reading and writing skills for students with disabilities. This course is to prepare students for college level reading and writing courses.

**EDAC 313     Basic Math Skills for Students with    0 Units**
**               Disabilities**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture (24 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
Basic math functions such as addition, subtraction, multiplication, and division. Students will also be introduced to decimals, fractions, and proportions.

# Engineering

**ENGR 10     Introduction to Engineering    4 1/2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 210 or equivalent.*
*Three hours lecture, five hours laboratory (96 hours total per quarter).*
This course is an introduction to engineering design through a variety of team projects, including experimentation, data analysis, and the development of computer skills. Students will be exposed to several engineering disciplines through project design and problem solving for the purpose of providing information to assist them in choosing a major.

**ENGR 35     Statics    4 Units**
*Prerequisite: ENGR 10, MATH 1B or MATH 1BH, and PHYS 4A.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
This course covers the principles of statics as applied to particles and rigid bodies in two and three dimensions; vector solutions for concentrated and distributed loads; the determination of centroids and moments of inertia and the effects of dry friction; and programming computer solutions.

**ENGR 37     Introduction to Circuit Analysis    5 Units**
*Prerequisite: MATH 1D or MATH 1DH; PHYS 4B (may be taken concurrently).*
*Five hours lecture (60 hours total per quarter).*
This course introduces the analysis of linear circuits; first- and second-order differential equations describing RLC circuits; the natural and forced response of simple circuits; the development of steady-state sinusoidal circuit analysis for the network differential equations; and the study of Thevenin, Norton, and operational amplifiers.

**ENGR 77     Special Projects in Engineering    1 Unit**
**ENGR 77X                                       2 Units**
**ENGR 77Y                                       3 Units**
*Prerequisite: Consent of instructor and division dean.*
*Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).*
This course involves individual special reading, writing, or study projects in engineering as determined in consultation with the instructor.

**ENGR 78X     Special Projects in Electrical Engineering    1 Unit**
**ENGR 78Y                                                   2 Units**
**ENGR 78Z                                                   3 Units**
*Prerequisite: Consent of instructor and division dean.*
*Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).*
*Pass-No Pass (P-NP) course.*
This course involves individual special reading, writing, or study projects in electrical engineering as determined in consultation with the instructor.

**ENGR 79X     Special Projects in Mechanical    1 Unit**
**               Engineering**
**ENGR 79Y                                       2 Units**
**ENGR 79Z                                       3 Units**
*Prerequisite: Consent of instructor and division dean.*
*Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).*
*Pass-No Pass (P-NP) course.*
This course includes individual special reading, writing, or study projects in mechanical engineering as determined in consultation with the instructor.

# English as a Second Language

Some courses in the English as a Second Language Department are designed for students with a recommended level of skills and knowledge. De Anza uses a variety of assessment methods deanza.edu/assessment/steps - 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.

**ESL 5     Advanced Composition and Reading    5 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: EWRT 211 and READ 211, or 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.

E

### ESL 6 — Critical Reading and Research for Writing — 5 Units

*(See general education pages for the requirement this course meets.)*
*(Restricted to students whose native language is not English.)*
*Prerequisite: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Five hours lecture (60 hours total per quarter).*
Development of analytical, integrative, and research skills in reading and writing. Academic writing (interpretative, analytical, argumentative) based largely on the reading of diverse literature and texts. Library and outside research leading to analysis, comparison, and synthesis in documented research paper.

### ESL 200 — High Beginning English as a Second Language — 10 Units

*Credit course - Does not apply to De Anza associate degree.*
*Prerequisite: Qualifying score on the English as a Second Language Placement Test.*
*Ten hours lecture (120 hours total per quarter).*
Development of English listening, speaking, reading and writing skills at the high-beginning level with an emphasis on explicit, direct grammar instruction. Practice in listening to basic forms of conversational English and speaking with comprehensible pronunciation. Development of basic reading comprehension and vocabulary. Practice in writing simple and basic compound sentences, short narratives, explanations, and descriptions.

### ESL 234 — Low Intermediate English as a Second Language — 10 Units

*Credit course - Does not apply to De Anza associate degree.*
*(Restricted to students whose native language is not English.)*
*Prerequisite: Qualifying score on the English as a Second Language Placement Test or ESL 200 with a grade of C or better.*
*Ten hours lecture (120 hours total per quarter).*
Development of English speaking, listening, reading and writing skills at the low intermediate level. Emphasis on explicit grammar instruction, writing a group of topic-related sentences, vocabulary building, pronunciation and discussion of multicultural topics.

### ESL 244 — Intermediate English as a Second Language — 10 Units

*Credit course - Does not apply to De Anza associate degree.*
*(Restricted to students whose native language is not English.)*
*Prerequisite: Qualifying score on the English as a Second Language Placement Test or ESL 234 with a grade of C or better.*
*Ten hours lecture (120 hours total per quarter).*
Development of English speaking, listening, reading and writing skills with an emphasis on explicit, direct grammar instruction. Vocabulary-building and writing are emphasized. Pronunciation practice and discussion of cross-cultural topics are also included.

### ESL 251 — High Intermediate Listening and Speaking — 3 Units

*Credit course - Does not apply to De Anza associate degree.*
*(Restricted to students whose native language is not English.)*
*Prerequisite: ESL 244 or a qualifying score on the English as a Second Language Placement Test.*
*Advisory: ESL 251 students may also take ESL 252 and 253 concurrently.*
*Three hours lecture (36 hours total per quarter).*
English speaking and listening practice in a variety of contexts. Development of vocabulary appropriate in both formal and informal situations.

### ESL 252 — High Intermediate Reading — 3 Units

*Credit course - Does not apply to De Anza associate degree.*
*(Restricted to students whose native language is not English.)*
*Prerequisite: ESL 244 or a qualifying score on the English as a Second Language Placement Test.*
*Advisory: ESL 252 students may also take ESL 251 and 253 concurrently.*
*Three hours lecture (36 hours total per quarter).*
Development of high intermediate English reading comprehension and vocabulary building skills in extended written materials.

### ESL 253 — High Intermediate Grammar and Writing — 4 Units

*Credit course - Does not apply to De Anza associate degree.*
*(Restricted to students whose native language is not English.)*
*Prerequisite: ESL 244 or a qualifying score on the English as a Second Language Placement Test.*
*Advisory: ESL 253 students may also enroll in ESL 251 and 252 concurrently.*
*Four hours lecture (48 hours total per quarter).*
Develop skills in using level-specific grammar and sentence structure in writing. Write organized and well-developed descriptive, narrative, and explanatory paragraphs.

### ESL 254 — American Language and Culture Through Media as Related to Child Development — 2 Units

*Credit course - Does not apply to De Anza associate degree.*
*Corequisite: Any Child Development course.*
*Two hours lecture (24 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
This course allows students to develop an understanding of American culture, language, common idioms, and slang through viewing and discussing American films and television related to child development.

### ESL 260 — Accent Reduction (for Non-Native Speakers) — 4 Units

*Credit course - Does not apply to De Anza associate degree.*
*(Restricted to students whose native language is not English.)*
*Advisory: ESL 251, 252 and 253.*
*Four hours lecture (48 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Emphasis on production of speech that is intelligible and accurate through the study and practice of the English language sound system, stress, linking, reduction, rhythm and intonation patterns.

### ESL 261 — Low Advanced Listening and Speaking — 3 Units

*Credit course - Does not apply to De Anza associate degree.*
*(Restricted to students whose native language is not English.)*
*Prerequisite: 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.

### ESL 262 — Low Advanced Reading — 3 Units

*Credit course - Does not apply to De Anza associate degree.*
*(Restricted to students whose native language is not English.)*
*Prerequisite: ESL 252 and 253; or a qualifying score on the English as a Second Language Placement Test.*
*Advisory: ESL 262 students may also enroll in ESL 261 and 263 concurrently.*
*Three hours lecture (36 hours total per quarter).*
Development of low advanced reading comprehension, vocabulary building skills, and improved reading rate in extended written materials.

### ESL 263 — Low Advanced Grammar and Writing — 4 Units

*Credit course - Does not apply to De Anza associate degree.*
*(Restricted to students whose native language is not English.)*
*Prerequisite: ESL 252 and 253; or a qualifying score on the English as a Second Language Placement Test.*
*Advisory: ESL 263 students may also enroll in ESL 261 and 262 concurrently.*
*Four hours lecture (48 hours total per quarter).*
Develop skills for writing clear, organized, well-developed, multiple paragraph compositions that demonstrate analytical thinking and level-appropriate grammar, sentence structure and vocabulary.

### ESL 272 — Advanced Reading and Vocabulary — 5 Units

*Credit course - Does not apply to De Anza associate degree.*
*(Restricted to students whose native language is not English.)*
*Prerequisite: EWRT 200 and READ 200, or ESL 262 and 263; or a qualifying score on the English as a Second Language Placement Test.*
*Five hours lecture (60 hours total per quarter).*
Development of academic vocabulary, reading and critical thinking skills through extensive readings of college-level material in English.

### ESL 273 — Introduction to the Essay — 5 Units

*Credit course - Does not apply to De Anza associate degree.*
*(Restricted to students whose native language is not English.)*
*Prerequisite: EWRT 200 and READ 200, or ESL 261, 262 and 263 with a grade of C or better; or a qualifying score on the English as a Second Language Placement Test.*
*Advisory: ESL 273 students may enroll in ESL 272 concurrently.*
*Five hours lecture (60 hours total per quarter).*
Principles of essay writing and introduction of the techniques of academic essay writing based on critical reading and thinking.

### ESL 274 — Grammar and Proofreading for Academic Writing — 4 Units

*Credit course - Does not apply to De Anza associate degree.*
*(Recommended for students whose native language is not English and students who wish to improve their grammar and proofreading skills.)*
*Prerequisite: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Four hours lecture (48 hours total per quarter).*
Focus on helping students become successful academic writers by addressing their individual needs to understand grammatical structures fundamental to college writing and to develop effective proofreading skills.

### ESL 280 — Developmental Reading for Child Development and Education — 1 Unit

*Credit course - Does not apply to De Anza associate degree.*
*(Restricted to students who are enrolled in the Child Development Department.)*
*Corequisite: C D 10G,10H, 12, 50, 51, 54, 56, or 64.*
*Advisory: ESL 251, 252 and 253; or a qualifying score on the English as a Second Language Placement Test.*
*One hour lecture (12 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
This course provides 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.

**ESL 300**     **High Beginning English as a Second**     **0 Units**
                  **Language**
*Prerequisite: Qualifying score on the English as a Second Language Placement Test.*
*Ten hours lecture (120 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course focuses on the development of English listening, speaking, reading and writing skills at the high-beginning level with an emphasis on explicit, direct grammar instruction. Students will practice listening to basic forms of conversational English and speaking with comprehensible pronunciation; develop basic reading comprehension and vocabulary; and practice writing simple and basic compound sentences, short narratives, explanations, and descriptions.

**ESL 334**     **Low Intermediate English as a**     **0 Units**
                  **Second Language**
*(Restricted to students whose native language is not English.)*
*Prerequisite: Qualifying score on English as a Second Language Placement Test; or ESL 300 with a grade of C or better.*
*Ten hours lecture (120 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course focuses on the development of English speaking, listening, reading and writing skills at the low intermediate level. Emphasis will be placed on explicit grammar instruction, writing a group of topic-related sentences, vocabulary building, pronunciation and discussion of multicultural topics.

**ESL 344**     **Intermediate English as a Second**     **0 Units**
                  **Language**
*(Restricted to students whose native language is not English.)*
*Prerequisite: Qualifying score on English as a Second Language Placement Test; or ESL 334 with a grade of C or better.*
*Ten hours lecture (120 hours total per quarter).*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
This course focuses on the development of English speaking, listening, reading and writing skills with an emphasis on explicit, direct grammar instruction. Emphasis will be placed on vocabulary-building and writing. Pronunciation practice and discussion of cross-cultural topics are also included.

# 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 deanza.edu/assessment/steps - 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.

**ELIT 8**     **Children's Literature**     **4 Units**
*(Formerly ELIT 58.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is a 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. It also includes an evaluation of the literary quality and the cultural and historical meaning of individual works, and the 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This is an intensive study of fiction with 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This is an intensive study of fiction with reading, discussion, and analysis of structure and meaning in selected novels and short stories. Students in this honors program course 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is an 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course analyzes 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course analyzes 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. Students in this course will be expected to complete extra assignments to gain deeper insight into 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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).*
This is an 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 (EWRT 1AS and EWRT 1AT) 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 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as ASAM 20. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
This course is an introduction to Asian Pacific American literature. Through readings in twentieth and twenty-first century works, students will explore and analyze 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 28**     **Young Adult Literature**     **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course examines significant authors, movements, and traditions (continuing as well as emerging) in a diverse range of young adult literature.

**ELIT 38**     **Utopian/Dystopian Literature**     **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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.

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

**ELIT 39**      **Contemporary Literature**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is a critical examination of representative, contemporary literary works of the post-WWII period, with emphasis on more recent works and intercultural offerings, and 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 -**      **4 Units**
               **HONORS**
*(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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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**      **4 Units**
               **(Medieval and Renaissance)**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in ELIT 46AH.)*
*Prerequisite: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*Four hours lecture (48 hours total per quarter).*
This course includes reading and critical analysis of representative works by major writers such as Chaucer, Shakespeare, and Milton.

**ELIT 46AH**      **Major British Writer**      **4 Units**
               **(Medieval and Renaissance) - HONORS**
*(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: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*Four hours lecture (48 hours total per quarter).*
This course includes reading and critical analysis of representative works by major writers such as Chaucer, Shakespeare, and Milton. Students in this course will be expected to complete extra assignments to gain a deeper insight into Literature.

**ELIT 46B**      **Major British Writers**      **4 Units**
               **(Neo-Classical and Romantic)**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in ELIT 46BH.)*
*Prerequisite: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*Four hours lecture (48 hours total per quarter).*
This course explores readings and critical responses 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**      **4 Units**
               **(Neo-Classical and Romantic) - HONORS**
*(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: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*Four hours lecture (48 hours total per quarter).*
This course explores readings and critical responses 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. Students will be expected to complete extra assignments to gain a deeper insight into Literature.

**ELIT 46C**      **Major British Writers**      **4 Units**
               **(Victorian and Modern)**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in ELIT 46CH.)*
*Prerequisite: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*Four hours lecture (48 hours total per quarter).*
This course will examine readings and critical responses 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**      **4 Units**
               **(Victorian and Modern) - HONORS**
*(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: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*Four hours lecture (48 hours total per quarter).*
This course will examine readings and critical responses 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. Students will be expected to complete extra assignments to gain a deeper insight into 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 (EWRT 1AS and EWRT 1AT) 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**      **4 Units**
               **America**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
A comparative literature survey, "World Literature: Africa and Latin America" studies the works of literature 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**      **4 Units**
               **(Colonial to Romantic, 1620-1865)**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in ELIT 48AH.)*
*Prerequisite: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*Four hours lecture (48 hours total per quarter).*
This course explores the 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, and Henry David Thoreau.

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

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**ELIT 48AH    Major American Writers    4 Units**
**(Colonial to Romantic, 1620-1865) -**
**HONORS**
*(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: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*Four hours lecture (48 hours total per quarter).*
This course explores the 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, and Henry David Thoreau. Because this is an honors program course, students will be expected to complete extra assignments to gain deeper insight in literature.

**ELIT 48B    Major American Writers    4 Units**
**(The Advent of Realism, 1865-1914)**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in ELIT 48BH.)*
*Prerequisite: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*Four hours lecture (48 hours total per quarter).*
This course explores the reading and critical analysis of representative works by major writers such as Walt Whitman, Emily Dickinson, Mark Twain, Henry James, William Dean Howells, Charlotte Perkins Gilman, Charles Chesnutt, Mary Wilkins Freeman, Kate Chopin, Stephen Crane, Booker T. Washington, W.E.B. DuBois, Black Elk, and Robert Frost.

**ELIT 48BH    Major American Writers    4 Units**
**(The Advent of Realism, 1865-1914) -**
**HONORS**
*(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: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*Four hours lecture (48 hours total per quarter).*
This course explores the reading and critical analysis of representative works by major writers such as Walt Whitman, Emily Dickinson, Mark Twain, Henry James, William Dean Howells, Charlotte Perkins Gilman, Charles Chesnutt, Mary Wilkins Freeman, Kate Chopin, Stephen Crane, Booker T. Washington, W.E.B. DuBois, Black Elk, and Robert Frost. Because this is an honors program course, students will be expected to complete extra assignments to gain deeper insight in Literature.

**ELIT 48C    Major American Writers    4 Units**
**(The Modern Age, 1914-the Present)**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in ELIT 48CH.)*
*Prerequisite: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*Four hours lecture (48 hours total per quarter).*
This course explores the reading and critical analysis of representative works by major writers of the modern/postmodern periods 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    4 Units**
**(The Modern Age, 1914-the Present) -**
**HONORS**
*(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: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*Four hours lecture (48 hours total per quarter).*
This course explores the reading and critical analysis of representative works by major writers of the modern and postmodern periods, 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. Because this is an honors program course, students will be expected to complete extra assignments to gain deeper insight into English literature.

**ELIT 78    Special Topics in Literature    1 Unit**
**ELIT 78X    2 Units**
**ELIT 78Y    3 Units**
**ELIT 78Z    4 Units**

*Prerequisite: Consent of instructor and division dean.*
*One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).*
*Pass-No Pass (P-NP) course.*
This course involves an intensive study and analysis of a special topic in literature.

# 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 deanza.edu/assessment/steps - 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.

**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: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*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: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*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 1AS    Intensive Composition and Reading    5 Units**
**Stretch: First Quarter**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Placement based on English Assessment Process, including GPA multiple measure assessment.*
*Five hours lecture (60 hours total per quarter).*
Integration of reading and writing skills necessary for success in EWRT 1A with an emphasis on evaluation, analysis, synthesis, questioning, and critical inquiry of assigned readings, from culturally diverse traditions, and in essays. Immersion in the reading and writing process with opportunities for instruction on strategies and skills to succeed in transfer-level curriculum. Composition of well-organized, clear essays with varying purposes and audiences both in and out of class. This is the first of a two-course sequence.

**EWRT 1AT    Intensive Composition and Reading    5 Units**
**Stretch: Second Quarter**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: EWRT 1AS with a grade of C or higher.*
*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. This is the second of a two-course sequence.

**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 or (EWRT 1AS and EWRT 1AT).*
*Five hours lecture (60 hours total per quarter).*
This course will emphasize the development of analytical, integrative skills in reading and writing. Students will explore academic (interpretive, analytical, argumentative) writing based largely on reading of literary/imaginative texts linked by a common theme or issue. The course includes outside research leading to analysis, comparison, and synthesis in documented research paper.

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

E

**EWRT 1BH**     **Reading, Writing and Research -**     **5 Units**
                          **HONORS**
*(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 or (EWRT 1AS and EWRT 1AT).*
*Five hours lecture (60 hours total per quarter).*
This course will emphasize the development of analytical, integrative skills in reading and writing. Students will explore academic (interpretive, analytical, argumentative) writing based largely on reading of literary/imaginative texts linked by a common theme or issue. The course includes outside research leading to analysis, comparison, and synthesis in documented research paper. Because this is an honors program course, 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).*
This course 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 or (EWRT 1AS and EWRT 1AT).*
*Five hours lecture (60 hours total per quarter).*
This course allows students to develop critical thinking skills and the ability to apply these skills to reading and writing. Students will practice analytical and argumentative academic essays based on the 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**     **5 Units**
                          **Thinking - HONORS**
*(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 or (EWRT 1AS and EWRT 1AT).*
*Five hours lecture (60 hours total per quarter).*
This course allows students to develop critical thinking skills and the ability to apply these skills to reading and writing. Students will practice analytical and argumentative academic essays based on the reading of complex texts, and the use of outside research leading to analysis, comparison and synthesis, and a documented research paper. Because this is an honors program course, it includes more advanced assignments and assessments.

**EWRT 30**     **Introduction to Creative Writing**     **5 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*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: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*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: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*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**     **5 Units**
                          **and Memoir Writing**
*Prerequisite: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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**     **2 Units**
                          **Magazine, National Edition**
**EWRT 65CX**     **3 Units**
*Prerequisite: EWRT 65A or EWRT 65AX.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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**     **2 Units**
                          **Magazine, Student Edition**
**EWRT 68CX**     **3 Units**
*Prerequisite: EWRT 68A or EWRT 68AX.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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.*
This course includes special reading, writing, or study projects in English as determined in consultation with the instructor.

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

E

**EWRT 141          Beginning Poetry Writing          4 Units**
*Credit course - Does not apply to De Anza associate degree.*
*Advisory: EWRT 200 and READ 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.*
*Requisite/Advisory: None.*
*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 Writing Skills          5 Units**
*Credit course - Does not apply to De Anza associate degree.*
*Requisite/Advisory: None.*
*Five hours lecture (60 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Develops the abilities necessary for college-level writing by introducing students to critical thinking via text-based analysis. Essay construction including thesis statements and paragraph organization and development, as well as focusing on the mechanics of writing, such as sentence-level skills will be covered.

# Environmental Science

**ESCI 1          Environmental Science          4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
An introductory course designed to expose students to environmental science. Human interactions with the environment and their consequences for living and nonliving systems will be examined. Topics will include evolution, ecology, biodiversity, human population dynamics, natural resource use, pollution, environmental degradation, climate change, marine and freshwater resources, and environmental policy.
(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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture, three hours laboratory (84 hours total per quarter).*
An introduction to environmental biology as a branch of the environmental sciences and its relation to the scientific field. Review of the principles of environmental biology, ecology and conservation as they relate to natural resource use, the biodiversity crisis, pollution, human population, climate change and the impacts on all cultural, ethnic and gender groups.

(Field trip outside of scheduled class time may be required for this course.)

**ESCI 21          Practices of Environmental Stewardship          5 Units**
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture, three hours laboratory (84 hours total per quarter).*
A focus on 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 may be required.)

**ESCI 30          Introduction to Conservation Biology          5 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture, three hours laboratory (84 hours total per quarter).*
An introduction to biodiversity and conservation biology as a branch of the environmental sciences. This course will focus on species richness, genetic diversity and ecosystem diversity through the exploration of contemporary biodiversity and conservation issues. Adaptive, community-based conservation techniques applied to develop practical problem-solving approaches to the biodiversity crisis including habitat fragmentation and biological monitoring. In addition cultural, economic and philosophical aspects of biodiversity conservation will be explored.
(Off-campus field trips will be required.)

**ESCI 50          Introduction to Urban Ecology          4 Units**
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course examines how nature and wildlife in urban spaces face different constraints than that of "untouched" wilderness and aims to introduce the intersection of nature and human-constructed civilizations. Students will learn about the methods of analysis in urban ecology and apply their knowledge to a case study.

**ESCI 54          Environmental Analysis          3 Units**
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Three hours lecture (36 hours total per quarter).*
This course explores the data analysis techniques, protocol, and equipment utilized in Environmental Science. Students will apply the data analysis techniques utilized in the preservation, protection, and restoration of environmental systems.

**ESCI 56          Plant Survey Techniques          3 Units**
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Three hours lecture (36 hours total per quarter).*
This course examines the plant survey techniques and plant community ecology principles utilized in wildlife science corridor and landscape design, preservation, or restoration. Students will apply these plant survey techniques to assist in the preservation, protection, and restoration of native species and ecosystems.

**ESCI 57          Wildlife Monitoring          2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Six hours laboratory (72 hours total per quarter).*
This is a wildlife monitoring field studies lab course exploring wildlife movement and wildlife corridors. Students apply the principles of Conservation Biology, Landscape Ecology, and Ecosystems Management to assist in the preservation, protection, and restoration of native species and ecosystems.

**ESCI 58          Landscape Linkages for California          2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Six hours laboratory (72 hours total per quarter).*
This is a landscape linkages field studies lab course exploring wildlife movement, habitat utilization, data collection, and analysis in California. Students apply 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 60          Restoration Ecology          5 Units**
*(Formerly ESCI 20.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture, three hours laboratory (84 hours total per quarter).*
An introduction to ecological restoration. Includes review of ecological theories as necessary for restoration based projects. The Cheeseman Environmental Studies serves as a laboratory for students project based, experiential learning.

**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 will be determined in consultation with the instructor. Outside reading and a written report required.

# Environmental Studies

**E S 1          Introduction to Environmental Studies          4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 science, history, culture, philosophy, and ethics, law and regulation, politics, economics, and management practices. Topics include current environmental issues related to nature/wildlife preservation, natural resource use and conservation, pollution control and prevention, and energy use and climate change. Students learn how their personal and career choices and actions can protect nature, preserve natural resources, prevent pollution, reduce energy demands and decrease climate change impacts for the benefit of current and future generations.
(One field trip may be required outside of class time.)

**E S 2          Introduction to Sustainability          4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
An introduction to sustainability through environmental, social, and economic evaluation. Students will learn the influence of societal resource use, distribution, and waste on earth. Climate change, power dynamics, and leadership are observed as influences on sustainability.

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

**E**

**E S 3 Imagery of the Environment 4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 time may be required.)

**E S 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 (EWRT 1AS and EWRT 1AT) 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.)

**E S 6 Introduction to Environmental Law 4 Units**
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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.

**E S 50 Introduction to Environmental 4 Units**
**Resource Management and Pollution**
**Prevention**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
This course is 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, environmental impact assessment, sustainable/"green" design, climate protection, and efficient/sustainable use of our fundamental environmental resources (air, water, land, food, climate, and extracted materials including timber, energy resources, and minerals/mined materials). The course explores associated job and career opportunities in the ERM and P2 fields.

**E S 51A Sustainable Energy Systems 4 Units**
*Prerequisite: E S 70 (may be taken concurrently) and E S 79 (may be taken concurrently)*
*Advisory: EWRT 211 and READ 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.

**E S 51B Energy Efficient Buildings 3 Units**
*Prerequisite: E S 71 (may be taken concurrently).*
*Advisory: EWRT 211 and READ 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.

**E S 51C Building Automation Systems 2 Units**
*(Formerly E S 78B.)*
*Prerequisite: E S 78 (may be taken concurrently).*
*Advisory: EWRT 211 and READ 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.

**E S 56 Introduction to Environmental Health 4 Units**
*Advisory: EWRT 211 and READ 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 ,Äì 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 ,Äì 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.

**E S 58 Introduction to Green Building 1 Unit**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*One hour lecture (12 hours total per quarter).*
An overview of the strategies to implement a green building project within an organization. Strategies include green building policies, best practices and guidelines including LEED (Leadership in Energy and Environmental Design), passive solar design, use of sustainable materials and energy efficiency in buildings, as well as an assessment of the impact of construction and buildings on society, economics, the environment.

**E S 61A Environmental Resource Management 4 Units**
**and Pollution Prevention: Air, Water**
**and Land**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; E S 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.

**E S 61B Environmental Resource Management 4 Units**
**and Pollution Prevention: Energy,**
**Chemicals and Waste**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; E S 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.

**E S 61L Environmental Resource Management 1 Unit**
**and Pollution Prevention Laboratory**
*Prerequisite: E S 61A (may be taken concurrently).*
*Advisory: EWRT 211 and READ 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.

**E S 62A Environmental Management Tools: 4 Units**
**Environmental Management Systems**
**and Environmental Performance Reporting**
*Advisory: EWRT 211 and READ 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.

**E S 62B Environmental Management Tools: 4 Units**
**CEQA and Environmental Impact**
**Reports (EIRs)**
*Advisory: EWRT 211 and READ 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.

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

**E S 62C** **Environmental Management Tools: Environmental Site Assessments (ESAs)** **4 Units**
*Advisory: EWRT 211 and READ 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.

**E S 62D** **Environmental Management Tools: Industrial Ecology and Sustainable Design Principles** **4 Units**
*Advisory: EWRT 211 and READ 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.

**E S 63** **Global Environmental Policy** **1 Unit**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*One hour lecture (12 hours total per quarter).*
An overview of global environmental policies relating to the global commons, sustainable development theory and other environmental themes. A discussion of historic and current policies such as conventions and agreements on climate change, land degradation, resource management, hazardous waste, chemicals and environmental impact assessments.

**E S 64** **Climate Change Mitigation and Adaptation in California** **4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
This course will examine the various strategies and approaches being taken at the state and local/regional levels to address both the root causes and the anticipated effects of global warming/climate change here in California. Students will explore associated job and career opportunities in monitoring, mitigation, and adaptation to climate change.

**E S 69** **Energy Management Within Your Organization** **1 Unit**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*One hour lecture (12 hours total per quarter).*
An overview of strategies to assist in preparing an energy management action plan for your organization and staff. The strategies include model board policy, administrative guidelines, assembling an energy management action team, assessing the impact of energy policy on society, and an overview of key stakeholders in the energy field.

**E S 69A** **Introduction to Facilities Management** **3 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 hours total per quarter).*
An introduction to the key concepts of Facility Management that range from the role the facility manager plays in the organization to the skill sets and competencies required to effectively perform the FM role. Building facilities are a company's second largest asset. It is important for facility managers to play a key role in supporting the company's largest asset -- the employees. The successful FM can help improve employee productivity and job satisfaction, ultimately leading to improved financial outcomes for the company and happier, healthier and productive work environments for employees.
(One or more facility management field trip may be required for this class).

**E S 70** **Introduction to Energy** **1 Unit**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*One hour lecture (12 hours total per quarter).*
Provides a general overview of the field of Energy Management and its importance to society at all levels. In particular, the evaluation, operation, and maintenance of energy systems in residential and small commercial buildings will be looked at, including alternative and renewable energy sources, in order to improve efficiency, reduce costs, and minimize environmental impacts.

**E S 71** **Introduction to Sustainable Buildings** **1 Unit**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*One hour lecture (12 hours total per quarter).*
Presents a general overview of Energy Efficient Buildings with an emphasis on residential and small commercial buildings. Specific topics to be covered include: energy use in buildings, bioclimatic design, energy basics, heat transfer concepts, whole building thermal analysis, as well as other important building energy efficient issues.

**E S 76** **Energy Star Products** **1 Unit**
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*One hour lecture (12 hours total per quarter).*
This course provides an introduction to Energy Star products including high efficiency, high-performance commercial, industrial and residential equipment, and appliances that reduce energy consumption and save money.

**E S 76A** **Solar Thermal Systems** **1 Unit**
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*One hour lecture (12 hours total per quarter).*
This course presents a general overview of Solar Thermal Systems with an emphasis on residential hot water applications. It introduces the physics of solar thermal energy, siting analysis, sizing design, and other relevant aspects of solar thermal systems.

**E S 77X** **Special Projects in Environmental Studies** **1 Unit**
**E S 77Y** **2 Units**
**E S 77Z** **3 Units**
*Prerequisite: Consent of instructor and division dean.*
*Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).*
This course requires students to conduct an individual research project in environmental studies that is determined in consultation with the instructor. An outside reading and written report are required.

**E S 78** **Introduction to Energy Management Systems and Controls** **1 Unit**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*One hour lecture (12 hours total per quarter).*
Describes the most commonly used controls and energy management systems in commercial and institutional applications. Topics will include complex automatic systems for major energy-consuming equipment, as well as simple controls, including time clocks, occupancy sensors, photocells, and programmable thermostats. Computer-based energy management systems, as well as control systems to reduce peak electrical demand will be discussed.
(One out-of-class field trip may be required for this course.)

**E S 79** **Renewable and Alternative Energy Systems** **1 Unit**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*One hour lecture (12 hours total per quarter).*
An introduction to the potential for renewable and alternative energy systems when adding power generation capacity for a site or large facility. Life-cycle cost comparisons between renewable energy systems and conventional power generation and the added potential of reducing peak power demand will be emphasized. Topics include photovoltaic power systems, wind energy systems, and fuel cells.
(One out-of-class field trip may be required for this course.)

**E S 80** **California Field Studies** **1 Unit**
**E S 80X** **2 Units**
**E S 80Y** **3 Units**
**E S 80Z** **4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).*
Field observation of California's native plants and animals in aquatic and terrestrial ecosystems, with an emphasis on endangered, rare, protected and reintroduced species. The underlying social, environmental protection, environmental justice, economic, and political issues associated with habitat and species loss will be discussed, as well as impacts on various cultural, ethnic and socio-economic groups.
(Off-campus field trips may be required.)

**E S 81** **Leadership in Energy and Environmental Design/Sustainability Codes** **2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours lecture (24 hours total per quarter).*
An introductory course designed for students and employees seeking to learn more about green building and how it can benefit their company. Topics covered will include the triple bottom line of sustainability, current market trends in green building, the Building Energy Code (Title 24, section 6), Appliance Code (Title 20), and the Green Building Code (Title 24, section 11). Includes modules on simulation tools that can be used for code compliance, analysis of the potential impact for specific EE and DR measures, verification of energy savings efforts, and the process of greening existing energy portfolios.

**E S 82** **Project Management and Technical Report Writing for Energy Professionals** **2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours lecture (24 hours total per quarter).*
Addresses the key project management components required in leading and coordinating energy efficiency programs in cross functional organizations. Explores project communication strategies, writing compelling and accurate technical reports for commercial and residential building energy audits targeted at nontechnical audiences and company/organization decision makers. Includes project coordination, report writing, spreadsheets, formats, templates, proposal writing, inserting graphics and charts and the financial analysis of energy efficiency proposals for commercial and residential buildings.

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**E S 83          Energy Management Return on          2 Units**
                **Investment**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours lecture (24 hours total per quarter).*
An overview of utility rate types and charges and exploration of building energy benchmarking tools such as Energy Star Portfolio Manager and LBNL's Energy IQ. Methods for estimating costs, and calculating the financial benefits of recommended energy efficiency and renewable energy projects and determining the return on investment and cost benefits of energy efficiency changes in commercial and residential buildings will be analyzed.

**E S 84          Residential Solar Design and Insatllation          1 Unit**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*One hour lecture (12 hours total per quarter).*
Analysis of the key factors in designing and installing a residential solar system. Residential solar installation trends, emerging technologies and strategies, how to size the system, evaluation of modules and inverters, shading analysis, rebates and tax incentives, economic payback, buy vs. lease options, performance monitoring and how to install a complete residential solar systems will be covered. Students will spend three hours to become OSHA 10 solar safety certified to install residential solar energy systems.

**E S 85A          California Native Plants and Animals          2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours lecture (24 hours total per quarter).*
Environmental education and interpretative methods focusing on the native plants and animals of California with an emphasis on local case studies and endangered species. Interpretive techniques utilized in environmental education will be reviewed. Prepares students to lead tours of the Cheeseman Environmental Study Area (ESA), outdoor lab. Teaching environmental education and interpretive techniques to various ethnic, cultural and socioeconomic groups will be explored.
(Field project required.)

**E S 85B          Environmental Education          2 Units**
                **Interpretive Training**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*One hour lecture, three hours laboratory (48 hours total per quarter).*
Interpretative techniques of environmental education and environmental outreach utilizing the Cheeseman Environmental Study Area, the Kirsch Center, De Anza College campus and open space sites, parks and refuges in Santa Clara County. Students will refine the techniques required for leading tours and interpreting California native plant and animal communities in the Santa Clara County outdoor settings. Students will conduct 2-4 lead tours at the Cheeseman Environmental Studies Area or at local elementary schools. Strategies for teaching environmental education and nature-based learning with various cultural, ethnic and socio-economic groups will also be explored.
(Off-campus field trips are required for this course.)

**E S 95          Introduction to Environmental Careers          1 Unit**
*Advisory: EWRT 211 and READ 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.

# 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 (EWRT 1AS and EWRT 1AT) 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 -          4 Units**
                **HONORS**
*(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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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) -          4 Unit(s)**
                  **HONORS**
**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 2AW.)*
*(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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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) -          4 Unit(s)**
                  **HONORS**
**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 2BW.)*
*(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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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).*
This course is a critical survey of contemporary world cinema as art, business, technology, and cultural artifact. It provides the 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. The F/TV 2CW course will cover expanded topics in historiography, such as problems and approaches to historical film research and analysis.

**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 (EWRT 1AS and EWRT 1AT) 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).*
This course is a critical survey of contemporary world cinema as art, business, technology, and cultural artifact. It provides the 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. The F/TV 2CWH course will cover expanded topics in historiography, such as problems and approaches to historical film research and analysis. Because this is an honors course, students will be expected to complete extra assignments to gain a 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course surveys the history, aesthetics, technology, and social impacts of electronic media, including film, broadcasting and the Internet. Students will explore 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course surveys the history, aesthetics, technology, and social impacts of electronic media, including film, broadcasting and the Internet. Students will explore the role of government, advertising, audiences, and emerging technologies, their futures and impacts on global societies. Because this is 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 (EWRT 1AS and EWRT 1AT) 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).*
This course is an introduction to the production processes of 16mm motion picture film. Topics will include scriptwriting, preproduction, 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 (EWRT 1AS and EWRT 1AT) 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.*
*Advisory: THEA 20A or THEA 80A.*
*Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).*
Development and execution of short, single-camera projects focusing on the skill of directing and crafting an actor's performance.

**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).*
This course covers the concepts and techniques of nonlinear digital video editing, 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).*
This course is 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 the sound stage or on location. 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 ESL 272 and 273.*
*Two and one-half hours lecture, one and one-half hours laboratory (48 hours total per quarter).*
This course will explore the art and techniques of audio recording for film and video with an emphasis on preproduction and production in the studio and on location. The aesthetics of design and the technologies of analog and digital audio through the manipulation of sound in the aural and recorded environment will be examined.

**F/TV 31**      **Audio Post-Production**      **3 Units**
*(Formerly F/TV 63B.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two and one-half hours lecture, one and one-half hours laboratory (48 hours total per quarter).*
This course covers the 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 hours lecture, three hours laboratory (72 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 and color grading.

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

**F/TV 41**      **Film Genres**      **4 Units**
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
Analysis of the works of specific film artists, such as directors Alfred Hitchcock or Spike Lee; or analysis of the works of artists practicing a specific film craft, such as screenwriting, acting, cinematography or editing. The topic studied changes each quarter (see subtitle in quarterly schedule of classes).

**F/TV 44A**      **16mm/35mm Film Production I**      **4 Units**
*(Formerly F/TV 52A.)*
*Prerequisite: F/TV 22.*
*Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).*
Pre-production, laboratory procedures, interior and exterior lighting techniques, color cinematography for 16mm and 35mm film production. Emphasis on individual student projects.

**F/TV 44B**      **16mm/35mm Film Production II**      **4 Units**
*(Formerly F/TV 52B.)*
*Prerequisite: F/TV 44A.*
*Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).*
Advanced production and post-production techniques including sync sound production and editing, music editing, and preparing for the final mix in 16mm and 35mm film production. Emphasis on individual student projects.

**F/TV 45**      **History of Experimental Film/Video**      **4 Units**
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
A survey of various experimental styles and practices in film and video, addressing the artists and historical developments of these media formats. The course situates experimental film and video work within the larger contexts of artistic traditions as well as networks of production and reception.

**F/TV 56A**      **Introduction to Visual Effects and**      **4 Units**
     **Color Grading**
*Prerequisite: F/TV 20.*
*Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).*
Overview of finishing steps in modern, digital post-production. Film and television-based usage of Adobe After Effects in practical applications such as titling and composite work will be covered along with color grading in DaVinci Resolve.

**F/TV 57A**      **Nonfiction Workshop I: The Documentary**    **4 Units**
*Prerequisite: F/TV 20.*
*Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).*
This course will cover the nonfiction concepts, principles, and techniques as related to the production of a documentary video. The historical roots in nonfiction film and television with an emphasis on production work in documentary formats will be examined.

**F/TV 57B**      **Nonfiction Workshop II:**      **4 Units**
     **The Documentary**
*Prerequisite: F/TV 57A.*
*Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).*
This course covers advanced techniques in nonfiction film and television, including cinematography, sound, lighting, postproduction editing, and directing. An analysis of the modern film and television documentary with an emphasis on production of a completed documentary video will also be included.

**F/TV 58S**      **Film/Television Production Workshop**    **1 Unit**
**F/TV 58T**      **2 Units**
**F/TV 58U**      **3 Units**
**F/TV 58V**      **4 Units**
*Prerequisite: F/TV 20.*
*Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).*
This course is a production workshop in which the student works independently, or with a crew, to produce a film or video to refine skills in camera, lighting, directing, post-production, and other related skills. The number of units is dependent on the production.

**F/TV 59**      **Role of the Media Producer**      **4 Units**
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5;*
*F/TV 6A.*
*Four hours lecture (48 hours total per quarter).*
Roles and responsibilities of the media producer. Skills and knowledge required in developing a production proposal; including development, audience analysis, location scouting, production schedule, budgeting and distribution.

**F/TV 60B**      **Screenwriting Fundamentals for**      **4 Units**
     **Film/Video II**
*Prerequisite: F/TV 6A.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
Second level course in screenwriting; examination of structure and characterization in dramatic narrative; consideration of approach and structure in nonfiction; emphasis on development and writing of original short and feature-length screenplays.

**F/TV 60C**      **Screenwriting Fundamentals for**      **4 Units**
     **Film/Video III**
*Prerequisite: F/TV 60B.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
Advanced beginning course in screenwriting for film, video, and electronic media; further practice in the development, writing, and revision of short and feature-length screenplays.

**F/TV 64A**      **Advanced Screenwriting Workshop I**    **4 Units**
*Prerequisite: F/TV 60B or F/TV 60C.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
Fictional screenwriting geared toward the planning, outlining and structuring of an original three-act feature-length fiction screenplay and the writing of the first act.

**F/TV 64B**      **Advanced Screenwriting Workshop II**    **4 Units**
*Prerequisite: F/TV 64A.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
An intensive seminar in writing feature-length fiction screenplays. Practice in the development and completion of a three-act narrative script focusing on plot, character development, arcs, turning points and journeys.

**F/TV 64C**      **Advanced Screenwriting Workshop III**    **4 Units**
*Prerequisite: F/TV 64B.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
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.

**F/TV 65**      **Current Practices in the Film/Video**    **4 Units**
     **Profession**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
Current creative, technical, economic and employment conditions in film and video from the perspective of film and television working professionals.

**F/TV 66A**      **Basic Techniques of Animation:**      **3 Units**
     **Stop Motion**
*Requisite/Advisory: None.*
*Two and one-half hours lecture, one and one-half hours laboratory (48 hours total per quarter).*
Techniques of three-dimensional stop-motion and non-cel animation, as applied to a variety of art media (puppet, clay, pixillation, shadow puppets and other under-camera art media). Principles of movement and timing, lighting and cinematography, and multiplane dimensionality, with application to both computer and traditional drawn animation.

**F/TV 67A**      **Principles of Animation: 2D Media**    **4 Units**
*(Formerly F/TV 69A.)*
*Advisory: ARTS 4A.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
An introduction to the basic principles for creating convincing and expressive animated motion. Students will use traditional and digital hand-drawn animation techniques to learn and apply these principles, which are fundamental to all forms of animation, including 3D animation and motion graphics.

**F/TV 68A**      **Sound for Animation**      **3 Units**
*Prerequisite: F/TV 67A.*
*Advisory: F/TV 20.*
*Two and one-half hours lecture, one and one-half hours laboratory (48 hours total per quarter).*
An intermediate level animation course introducing techniques for creating animation synced to music, voice, and sound effects. Through practical exercises and projects, students will learn and apply techniques for animation planning, staging, and lip sync, as well as basic principles for designing, recording, and mixing their own soundtracks.

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**F/TV 70A**  **The Storyboard and Visual**  **3 Units**
**Development for Animation**
*Advisory: F/TV 67A.*
*Two and one-half hours lecture, one and one-half hours laboratory (48 hours total per quarter).*
Techniques of animation pre-production as applied to story development, character design, storyboards, environment, and prop design, with application to both digital and traditional rendering techniques.

**F/TV 71G**  **Introduction to 3D Computer**  **4 Units**
**Animation: Modeling**
*Requisite/Advisory: None.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
Techniques of three-dimensional model creation as applied to objects, characters and environments. Principles of modeling, surface mapping, lighting and rendering with application to 3D computer animation.

**F/TV 71H**  **Introduction to 3D Computer**  **4 Units**
**Animation: Character Motion**
*(Formerly F/TV 82A.)*
*Prerequisite: F/TV 66A or F/TV 67A; and F/TV 71G.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
Techniques of three-dimensional animation as applied to objects and characters. Application of classic animation principles of movement and timing to 3D computer animation.

**F/TV 72G**  **Animated Film Pre-Production Workshop**  **4 Units**
*Advisory: F/TV 68A and F/TV 70A; and F/TV 66A or 67A or 82A (dependent on type of animation production to be developed).*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
Development of the initial concept stages of a short personal film in any style of animation, e.g. drawn, puppet or computer, that can be used as a demo reel in a professional portfolio. Creation of storyboards, set designs, character models, voice tracks and animatics.

**F/TV 72H**  **Animated Film Production Workshop**  **4 Units**
*Prerequisite: F/TV 72G.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
Execution of the principal production stages of a short personal film in any style of animation, e.g. drawn, puppet or computer, that can be used as a demo reel in a professional portfolio. Creation of character and effects animation, models for sets and props, and, if needed, synchronized musical cues.

**F/TV 72J**  **Animated Film Post-Production**  **4 Units**
**Workshop**
*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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 a 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 (EWRT 1AS and EWRT 1AT) 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**  **1 Unit**
**Professionals and Practices**
*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**  **3 Units**
**(The Writer, Producer, Director)**
*Prerequisite: F/TV 20.*
*Two hours lecture, three hours laboratory (60 hours total per quarter).*
This is an advanced workshop course 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).*
This is an advanced workshop course 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**  **3 Units**
**(Editing/ Post Production)**
*Prerequisite: F/TV 27.*
*Two hours lecture, three hours laboratory (60 hours total per quarter).*
This is an advanced workshop course 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 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 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.

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

# Geography

### GEO 1          Physical Geography          4 Units
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 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.
(A one-day field trip is required, each student can choose either Saturday or Sunday.)

### 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course is an introduction to the language and cultures of the German-speaking countries. Basic speaking, listening, reading and writing of German will be practiced within a cultural framework. Emphasis will be on language as an expression of culture and include 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course expands on the material presented in GERM 1, with a continuation of the introduction to the language and cultures of the German-speaking countries. Basic speaking, listening, reading and writing of German will be practiced within a cultural framework. Emphasis will be on language as an expression of culture with 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course expands on the material presented in GERM 1 and GERM 2 and completes the introduction to the language and cultures of German-speaking countries. Basic speaking, listening, reading and writing of German will be practiced within a cultural framework. Emphasis will be on language as an expression of culture with 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course develops students' 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 are included in the course, as well as a 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 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 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.

# Graphic and Interactive Design

*(See Art for course listings.)*

# Guidance (GUID)

*(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 (EWRT 1AS and EWRT 1AT) 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,**      **1 Unit**
**Wilderness, and Disasters**
*Advisory: EWRT 211 and READ 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).

# Health Technologies

**HTEC 50**      **Introduction to Health Technologies**      **2 Units**
*Advisory: EWRT 200 and READ 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 an 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 1/2 Units**
*Corequisite: 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 1/2 Units**
*Prerequisite: 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, appointment scheduling, and telephone technique.

**HTEC 72**      **Medical Office Financial Procedures**      **1 1/2 Units**
*Corequisite: 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 1/2 Units**
*(Formerly HTEC 74.)*
*Prerequisite: HTEC 61.*
*Corequisite: HTEC 101H.*
*One hour lecture, one and one-half hours laboratory (30 hours total per quarter).*
This course focuses on the development of basic medical transcription skills for a facility using actual dictation from Gastroenterology and Dermatology specialties; along with the basic skills for speech recognition editing.

**HTEC 74B**      **Medical Transcription with Editing II**      **1 1/2 Units**
*Prerequisite: HTEC 74A.*
*Corequisite: HTEC 101J.*
*One hour lecture, one and one-half hours laboratory (30 hours total per quarter).*
This course focuses on the development of advanced medical transcription skills for a facility using actual dictation from orthopedics, cardiology, and urology specialties; along with the basic skills for speech recognition editing.

**HTEC 74C**      **Medical Transcription with Editing III**      **1 1/2 Units**
*Prerequisite: HTEC 74B.*
*Corequisite: HTEC 101K.*
*One hour lecture, one and one-half hours laboratory (30 hours total per quarter).*
This course focuses on the development of advanced medical transcription skills for a facility using actual dictation from OB/GYN, endocrinology, and neurology specialties; along with the basic skills for speech recognition editing.

**HTEC 75**      **Electronic Health Records**      **1 1/2 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 1/2 Units**
*Prerequisite: HTEC 72.*
*One hour lecture, one and one-half hours laboratory (30 hours total per quarter).*
This course introduces advance concepts and guidelines from the (AHA) American Hospital Association, (AHIMA) American Health Information Association, and (AMA) American Medical Association: ICD-10-CM Coding System.

**HTEC 76B**      **Advanced Medical Coding II**      **1 1/2 Units**
*Prerequisite: HTEC 76A.*
*One hour lecture, one and one-half hours laboratory (30 hours total per quarter).*
This course introduces the advanced concepts and guidelines from the (AHA) American Hospital Association, (AHIMA) American Health Information Association, and (AMA) American Medical Association: ICD-10-CM 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 1/2 Units**
*Corequisite: HTEC 80A.*
*Four and one-half hours laboratory (54 hours total per quarter).*
This course introduces the various techniques and safety procedures used in the clinical hematology laboratory. Students will prepare and stain blood slides, perform microhematocrits, hemoglobin analysis, ESR, and Sickle Cell Screening. Students will perform manual WBC's and platelet counts using a hemacytometer. Students will evaluate printouts from the automated hematology analyzer. Students will determine the morphology and identification of common human blood cells. Special stains (Reticulocyte, giemasa, and Kleihaure-Betke) will be done. Correlating test results with disease states will be accomplished. Successful completion of this course and HTEC 80A, HTEC 81A, HTEC 81, HTEC 82A and HTEC 82 are 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.

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

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**HTEC 80A**     **Clinical Hematology Lecture**     **4 1/2 Units**
*Corequisite: HTEC 80.*
*Four and one-half hours lecture (54 hours total per quarter).*
This course presents the origin of the various types of blood cells with an emphasis on the red and white blood cells. Human hematological disorders and classifications based on clinical laboratory findings will be covered and case studies will be presented. This course must be successfully completed in order to qualify for the clinical externship and take the exam.

**HTEC 81**     **Clinical Urinalysis Laboratory**     **3/4 Unit**
*Corequisite: HTEC 81A.*
*Two and one-quarter hours laboratory (27 hours total per quarter).*
This course 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. 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 by the student. Successful completion of this course and HTEC 81A, HTEC 80A, HTEC 80, HTEC 82A, and HTEC 82 is required 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 licensing exam.

**HTEC 81A**     **Clinical Urinalysis Lecture**     **1 1/2 Units**
*Corequisite: HTEC 81.*
*One and one-half hours lecture (18 hours total per quarter).*
This course introduces the student to urine formation including renal anatomy and physiology, renal diseases, and metabolic disorders. The course content also includes basic body fluids, along with case-studies correlating clinical laboratory testing results to possible disease states. This course must be successfully completed in order to qualify for the clinical externship and take the licensing exam.

**HTEC 82**     **Clinical Coagulation Laboratory**     **3/4 Unit**
*Corequisite: HTEC 82A.*
*Two and one-quarter hours laboratory (27 hours total per quarter).*
Introduces the various techniques and safety procedures used in the clinical coagulation laboratory. Emphasis on platelet function tests and intrinsic and extrinsic clotting pathway testing. Normal and abnormal cases will be studied. Correlating test results with disease states will be accomplished. Successful completion of this course and HTEC 80, 80A, 81, 81A and 82A are required to enroll in Clinical Hematology/Urinalysis/Coagulation Practicum (HTEC 180).

**HTEC 82A**     **Clinical Coagulation Lecture**     **1 1/2 Units**
*Corequisite: HTEC 82.*
*One and one-half hours lecture (18 hours total per quarter).*
Introduces the mechanisms involved in hemostasis. Includes the processes of primary, secondary and fibrinolysis in normal circumstances and in relation to disease states. Case studies will be included.

**HTEC 83**     **Clinical Microbiology Laboratory**     **1 1/2 Units**
*Corequisite: HTEC 83A.*
*Four and one-half hours laboratory (54 hours total per quarter).*
An introduction to the various techniques and safety procedures in clinical microbiology. Emphasizes the morphology and identification of common pathogenic organisms. Correlation of test results with disease states will be accomplished. Successful completion of this course and HTEC 83A is required to enroll in Clinical Microbiology Practicum (HTEC 183).

**HTEC 83A**     **Clinical Microbiology Lecture**     **4 1/2 Units**
*Corequisite: HTEC 83.*
*Four and one-half hours lecture (54 hours total per quarter).*
Addresses microorganisms of medical microbiology with emphasis on the characteristics of clinically significant microorganisms and their biochemical profile, media for isolation, and identification methods for selected pathogens. The student will be introduced to identification methods, theories, and techniques used in basic bacteriology, parasitology and mycology. Emphasizes routine organism identification. Correlating test results with disease states will be accomplished. Successful completion of this course and HTEC 83 is required to enroll in Clinical Microbiology Practicum (HTEC 183).

**HTEC 84**     **Clinical Immunology/**     **1 1/2 Units**
       **Immunohematology Laboratory**
*Corequisite: HTEC 84A.*
*Four and one-half hours laboratory (54 hours total per quarter).*
Introduces the student to the basic principles of antigen and antibody reactions included in blood grouping and typing, compatibility testing and serological procedures by performances in a student lab environment. Introduces serological and immunohematology procedures and techniques to measure analytes qualitatively and quantitatively. Correlating test results with disease states will be accomplished. Successful completion of this course and HTEC 84A is required prior to enrollment in Clinical Immunology/Immunohematology Practicum, HTEC 184. This course must be successfully completed in order to qualify for the clinical externship and take the licensing exam.

**HTEC 84A**     **Clinical Immunology/**     **4 1/2 Units**
       **Immunohematology Lecture**
*Corequisite: HTEC 84.*
*Four and one-half hours lecture (54 hours total per quarter).*
Introduces the student to the basic principles of antigen and antibody reactions included in blood grouping and typing, compatibility testing and serological procedures. Introduces serological and immunohematology procedures and techniques to measure analytes qualitatively and quantitatively. This course must be successfully completed in order to qualify for the clinical externship and take the licensing exam.

**HTEC 85A**     **Clinical Chemistry I Laboratory**     **1 1/2 Units**
*Corequisite: HTEC 85C.*
*Four and one-half hours laboratory (54 hours total per quarter).*
Teaches the general laboratory principles and specific basic instrumentation methodologies used in basic clinical chemistry analysis. After review of laboratory math, and a reintroduction to quality control and quality assurance, the student will be introduced to variables of the pre-analytical phase, characteristics important to quality lab technique and safety. Correlating test results with disease states will be accomplished. Successful completion of this course, HTEC 85B, HTEC 85C and HTEC 85D are required to enroll in Clinical Chemistry Practicum, HTEC 185. This course must be successfully completed in order to qualify for the clinical externship and take the licensing exam.

**HTEC 85B**     **Clinical Chemistry II Laboratory**     **1 1/2 Units**
*Prerequisite: HTEC 85A.*
*Corequisite: HTEC 85D.*
*Four and one-half hours laboratory (54 hours total per quarter).*
Teaches the general laboratory principles and specific basic instrumentation methodologies used in basic clinical chemistry analysis. After review of laboratory math, and a reintroduction to quality control and quality assurance, the student will be introduced to variables of the pre-analytical phase, characteristics important to quality lab technique and safety. Correlating test results with disease states will be accomplished. Successful completion of this course, HTEC 85B, HTEC 85C and HTEC 85D are required to enroll in Clinical Chemistry Practicum, HTEC 185. This course must be successfully completed in order to qualify for the clinical externship and take the licensing exam.

**HTEC 85C**     **Clinical Chemistry I Lecture**     **4 1/2 Units**
*Corequisite: HTEC 85A.*
*Four and one-half hours lecture (54 hours total per quarter).*
Fundamental principles of clinical chemistry will be presented. Topics include: laboratory math, basic supplies and equipment, testing variables, and analytical techniques. Detailed theory of enzymes, electrolytes, acid-base, trace metals, carbohydrates, cardiac, amino acids, proteins, porphyrins will be included. Basic quality control will be introduced. Correlating test results with disease states will be accomplished. This course must be successfully completed in order to qualify for the clinical externship and take the licensing exam.

**HTEC 85D**     **Clinical Chemistry II Lecture**     **4 1/2 Units**
*Prerequisite: HTEC 85C.*
*Corequisite: HTEC 85B.*
*Four and one-half hours lecture (54 hours total per quarter).*
Teaches relationships between the endocrine system and analytes assayed in the clinical laboratory, including tumor markers, therapeutic drugs, and compounds studied in toxicology. The student will be introduced to vitamins assayed and correlate their clinical significance. The student will correlate liver, kidney, and pancreatic function with test results and compare with states of health and disease. The function and laboratory analysis of various body fluids including effusions, spinal fluid, and synovial fluid will be included. This course must be successfully completed in order to qualify for the clinical externship and take the licensing exam.

**HTEC 90G**     **Basic Patient Care**     **1 1/2 Units**
*Corequisite: HTEC 101B.*
*Advisory: HTEC 60A.*
*One hour lecture, two hours laboratory (36 hours total per quarter).*
Medical asepsis, nutrition and diet therapy, vital signs, preparation of examining room and patient, various procedures in the medical office.

**HTEC 90H**     **Medical Office Sterile Technique**     **1 1/2 Units**
*Corequisite: HTEC 101E.*
*Advisory: HTEC 60A and HTEC 90G.*
*One hour lecture, two hours laboratory (36 hours total per quarter).*
Local application of heat and cold, medical office instruments, sterilization and disinfection of equipment and instruments, application of sterile gloves, assisting with minor office surgery, and bandaging.

**HTEC 91**     **Medical Office Diagnostic Tests**     **1 1/2 Units**
*Corequisite: HTEC 101F.*
*Advisory: HTEC 60A.*
*One hour of lecture, two hours laboratory (36 hours total per quarter).*
Electrocardiography, theory of assisting with physical therapy and x-ray examinations, theory of diagnostic procedures and instructions.

**HTEC 93**  **Pharmacology for Medical Assistants**  **3 Units**
*Advisory: HTEC 60A.*
*Three hours lecture (36 hours total per quarter).*
To learn drug legislation and standards, dosage calculation, drug preparations and information regarding drugs and how they affect various system of the body.

**HTEC 94**  **Administration of Medications**  **1 1/2 Units**
*Prerequisite: HTEC 93.*
*One hour lecture, two hours laboratory (36 hours total per quarter).*
Pertinent anatomy and physiology, choice of equipment, proper technique, hazards and complications, post-treatment and test patient care and satisfactory performance of a minimum of ten intramuscular, subcutaneous, and intradermal injections; preparation and administration of oral medication.

**HTEC 95A**  **Medical Assisting Externship**  **3 Units**
*Prerequisite: 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.*
*Advisory: CIS 99.*
*Nine hours laboratory (108 hours total per quarter).*
Clinical medical assisting practical experience in medical facilities.

**HTEC 95B**  **Phlebotomy Technician I Externship**  **3 Units**
*Prerequisite: HLTH 57A; HTEC 50, 60A, 64A, 64B, 73 and 101A.*
*Advisory: CIS 4.*
*Nine hours laboratory (108 hours total per quarter).*
Phlebotomy Technician I practical experience in medical facilities.

**HTEC 96A**  **Medical Assisting Externship**  **4 Units**
*Prerequisite: 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.*
*Advisory: CIS 99.*
*Twelve hours laboratory (144 hours total per quarter).*
Administrative and clinical medical assisting practical experience in medical facilities.

**HTEC 96B**  **Medical Secretarial Externship**  **4 Units**
*Prerequisite: ACCT 1A or ACCT 1AH; and BIOL 54G, 54H, 54I, 54J; HTEC 50, 60A, 60G, 60H, 61, 68, 71, 72, 73, 74A, 75, 101C and 101D.*
*Advisory: CIS 4.*
*Twelve hours laboratory (144 hours total per quarter).*
Medical secretarial practical experience in medical facilities.

**HTEC 96C**  **Medical File Clerk Externship**  **4 Units**
*Prerequisite: HTEC 50, 60A, 73 and 75.*
*Advisory: CIS 4 and CIS 99.*
*Twelve hours laboratory (144 hours total per quarter).*
Medical file clerk practical experience in medical facilities.

**HTEC 96D**  **Medical Record Clerk Externship**  **4 Units**
*Prerequisite: HTEC 50, 60A, 71, 73 and 75.*
*Advisory: CIS 4 and CIS 99.*
*Twelve hours laboratory (144 hours total per quarter).*
Medical record clerk practical experience in medical facilities.

**HTEC 96E**  **Business Office Clerk Externship**  **4 Units**
*Prerequisite: HTEC 50, 60A, 72, 73, 75 and 101D.*
*Advisory: CIS 4 and CIS 99.*
*Twelve hours laboratory (144 hours total per quarter).*
Business office clerk practical experience in medical facilities.

**HTEC 96F**  **Insurance and Coding Externship**  **4 Units**
*Prerequisite: BIOL 54G, 54H, 54I, 54J; 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.

**HTEC 96G**  **Medical Transcription Externship**  **4 Units**
*Prerequisite: 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.

**HTEC 96H**  **EKG Externship**  **4 Units**
*Prerequisite: HTEC 50, 60A, 64A, 64B, 73, 90G, 91, 101A, 101B and 101F.*
*Twelve hours laboratory (144 hours total per quarter).*
Lab assisting practical experience in medical facilities.

**HTEC 101A**  **Skill Building in Clinical Laboratory Procedures II**  **1 Unit**
*Prerequisite: HTEC 64B (may be taken concurrently).*
*Three hours laboratory (36 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Proper collection and handling of blood specimens while developing speed and accuracy.

**HTEC 101B**  **Skill Building in Basic Patient Care**  **1 Unit**
*Corequisite: HTEC 90G.*
*Three hours laboratory (36 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Development of speed and accuracy in skills learned in the basic patient care course; skills include proper hand washing, vital signs, preparation of examination room and patient and various procedures in the medial office.

**HTEC 101C**  **Skill Building in Medical Communications**  **1 Unit**
*Corequisite: HTEC 61.*
*Three hours laboratory (36 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Development of speed and accuracy in skills learned in medical communications and advanced medical terminology.

**HTEC 101D**  **Skill Building in Medical Office Financial Procedures**  **1 Unit**
*Corequisite: HTEC 72.*
*Three hours laboratory (36 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Development of speed and accuracy in skills learned in medical office financial procedures course; skills include determining ICD-10 and CPT codes, completing various types of insurance forms.

**HTEC 101E**  **Skill Building in Medical Office Sterile Technique**  **1 Unit**
*Corequisite: HTEC 90H.*
*Three hours laboratory (36 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Development of speed and accuracy in skills learned in the medical office sterile technique course; skills include local application of heat and cold, application of sterile gloves, assisting with minor surgery, and bandaging.

**HTEC 101F**  **Skill Building in Medical Office Diagnostic Tests**  **1 Unit**
*Corequisite: HTEC 91.*
*Three hours laboratory (36 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Development of speed and accuracy in skills learned in the medical office diagnostic tests course; skills include performing assessing electrocardiograms.

**HTEC 101H**  **Skill Building in Medical Transcription and Editing I**  **1 Unit**
*Corequisite: HTEC 74A.*
*Three hours laboratory (36 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
This course develops speed and accuracy in medical transcription skills for a medical facility using actual dictation for dermatology medical specialties, along with the basic skills for speech recognition editing.

**HTEC 101J**  **Skill Building in Medical Transcription and Editing II**  **1 Unit**
*Corequisite: HTEC 74B.*
*Three hours laboratory (36 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
This course develops speed and accuracy in medical transcription skills for a medical facility using actual dictation for orthopedics, cardiology, and urology specialties, along with the basic skills for speech recognition editing.

**HTEC 101K**  **Skill Building in Medical Transcription and Editing III**  **1 Unit**
*Corequisite: HTEC 74C.*
*Three hours laboratory (36 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
This course develops speed and accuracy in medical transcription skills for a medical facility using actual dictation for OB/GYN, endocrinology, and neurology specialties, along with the basic skills for speech recognition editing.

**HTEC 101L**  **Intermediate Skill Building in Clinical Laboratory Procedures II**  **1 Unit**
*Prerequisite: HTEC 101A and HTEC 64B (may be taken concurrently).*
*Three hours laboratory (36 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Intermediate collection and handling of blood specimens and increasing speed and accuracy.

**HTEC 101M**  **Advanced Skill Building in Clinical Laboratory Procedures II**  **1/2 Unit**
*Prerequisite: HTEC 101A and HTEC 64B (may be taken concurrently).*
*One and one-half hours laboratory (18 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Advanced collection and handling of blood specimens and increasing speed and accuracy.

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**HTEC 110      Health Technologies Employment      1 1/2 Units**
**Preparation**
*Requisite/Advisory: None.*
*One hour lecture, two hours laboratory (36 hours total per quarter).*
Steps involved in preparing to complete a medical assistant externship and preparation for certification examinations.

**HTEC 180      Clinical Hematology/Urinalysis/      6 Units**
**Coagulation Practicum**
*Prerequisite: HTEC 80, 80A, 81, 81A, 82 and 82A.*
*Eighteen hours laboratory (216 hours total per quarter).*
Provides entry-level clinical laboratory practice/experience in the department of hematology, urinalysis and coagulation. Emphasis is placed on technique, accuracy, and precision. Different instrumentation will be introduced as well as bench/manual methods. Competence will be evaluated based on final clinical evaluations. This practicum will be conducted at a clinical affiliate site that will be facilitated by the MLT (Medical Laboratory Technician) Program Director. This course must be successfully completed in order to take the national exam and qualify for a California state license.

**HTEC 183      Clinical Microbiology Practicum      6 Units**
*Prerequisite: HTEC 83 and HTEC 83A.*
*Eighteen hours laboratory (216 hours total per quarter).*
Provides entry-level clinical laboratory practice/experience in the department of microbiology. Emphasis is placed on technique, accuracy, and precision. Different instrumentation will be introduced as well as bench/manual methods. Competence will be evaluated based on final clinical evaluations. This practicum will take place at a clinical affiliate site that will be facilitated by the MLT (Medical Laboratory Technician) Program Director. This course must be successfully completed in order to take the national exam and qualify for a California state license.

**HTEC 184      Clinical Immunology/      4 1/2 Units**
**Immunohematology Practicum**
*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 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 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
Starting from the late prehistoric times and covering to 750 Common Era (CE), students will explore the world's history of ancient peoples, cultures, and civilizations. This course provides an 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      4 Units**
**750 CE - HONORS**
*(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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
Starting from the late prehistoric times and covering to 750 Common Era (CE), students will explore the world's history of ancient peoples, cultures, and civilizations. This course provides an 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. Because this is an honors program course, 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 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
Starting from 750 Common Era (CE) and covering to 1750 CE, this course explores the convergence of, or increasing encounters between the world's peoples, cultures, and civilizations. Students will gain an 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 to 1750 CE -      4 Units**
**HONORS**
*(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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
Starting from 750 Common Era (CE) and covering to 1750 CE, this course explores the convergence of, or increasing encounters between the world's peoples, cultures, and civilizations. Students will gain an 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. Because this is an honors program course, students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into world history between 750 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course covers the era from 1750 Common Era (CE) and extending to the present, recent and current interactions between the world's peoples, cultures, and civilizations. Students will gain an 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      4 Units**
**the Present - HONORS**
*(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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course covers the era from 1750 Common Era (CE) and extending to the present, recent and current interactions between the world's peoples, cultures, and civilizations. Students will gain an 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. Because this is an honors program course, 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
　　　　　　　　Pre-History to 750 CE
*(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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
The development of Western Civilization from the fourth millennium BCE to the eighth century CE

**HIST 6AH**　　　History of Western Civilization:　　　4 Units
　　　　　　　　Pre-History to 750 CE - HONORS
*(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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
The development of Western civilization from the fourth millennium BCE to the eighth century CE As an honors course, the students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into the history of Western civilization from the ancient period through late antiquity (750 CE).

**HIST 6B**　　　History of Western Civilization:　　　4 Units
　　　　　　　　750 CE to 1750 CE
*(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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
The development of Western Civilization from the early Middle Ages to the early Modern Era (1750 CE), which includes late Medieval, the Renaissance, Reformation, and the Enlightenment.

**HIST 6BH**　　　History of Western Civilization:　　　4 Units
　　　　　　　　750 CE to 1750 CE - HONORS
*(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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
The development of Western Civilization from the early Middle Ages to the early Modern Era (1750 CE), which includes late Medieval, the Renaissance, Reformation, and the Enlightenment. As an honors course, the students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into the history of Western civilization from the early Middle Ages to the early Modern Era (1750 CE).

**HIST 6C**　　　History of Western Civilization:　　　4 Units
　　　　　　　　1750 CE to Present
*(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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
The development of Western Civilization from the early modern period (1750 CE) to the present, with an emphasis on the French Revolution, industrialization, nationalism, European imperialism, both world wars, environmentalism and the economic growth of Europe during and after the Cold War era.

**HIST 6CH**　　　History of Western Civilization:　　　4 Units
　　　　　　　　1750 CE to Present - HONORS
*(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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
The development of Western Civilization from the early modern period (1750 CE) to the present, with an emphasis on the French Revolution, industrialization, nationalism, European imperialism, both world wars, environmentalism and the economic growth of Europe during and after the Cold War era. As an honors course, the students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into the history of Western civilization from the early modern period (1750 CE) to the present.

**HIST 7A**　　　Colonial Latin American History　　　4 Units
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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).*
This course examines Colonial Latin America and its role in the Atlantic world (to 1825) including the independence movements. Themes in the course cover social, intellectual, and cultural developments, the impact of poverty, race and gender relations, and popular culture.

**HIST 7B**　　　Modern Latin American History　　　4 Units
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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).*
This course examines Latin American history from post-colonialism to the present (1810 to the present) and focuses on understanding the region as a diverse geographic, political, and social reality. Special attention will be given to the contributions of various peoples and cultures, human communities in arts and literature.

**HIST 9**　　　Women in American History　　　4 Units
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in HIST 9H or WMST 9 or WMST 9H.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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).*
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.

**HIST 9H**　　　Women in American History - HONORS　　　4 Units
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in HIST 9 or WMST 9 or WMST 9H.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as WMST 9H. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
A critical examination of the social, economic, cultural and political history of American women from the colonial times to the present. Emphasis on the movements which enhanced women's political and economic rights, the social roles which defined women primarily by their gender, and the legal realities that women faced. Significant moral, political, and economic issues will be assessed. As an honors course, the students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into women's history in America.

**HIST 10**　　　History of California　　　4 Units
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in HIST 10H.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course covers 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. The course includes practice in critical analysis of primary and secondary sources.

**HIST 10H**　　　History of California - HONORS　　　4 Units
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in HIST 10.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course covers 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. The course includes practice in critical analysis of primary and secondary sources. Because this is an honors course, students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into California history.

**HIST 16A**　　　History of Africa to 1800　　　4 Units
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as ICS 16A. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
History of Africa from the Paleolithic period to 1800; an interdisciplinary survey of the emergence and development of African civilizations that focuses on geographical, environmental economic, social, cultural and political issues.

**HIST 16B**　　　History of Africa from 1800 to the Present　4 Units
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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.

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

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**HIST 17A**     **History of the United States to**          **4 Units**
                 **Early National Era**
*(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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course examines U.S. civilization to the Early National Era. Students will survey the social, cultural, political, economic, and intellectual development of the Colonial Era with an emphasis on the era of the American Revolution, the development of the Constitution, and the role of the major ethnic, social, and gender groups in the American experience.

**HIST 17AH**    **History of the United States to**          **4 Units**
                 **Early National Era - HONORS**
*(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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course examines U.S. civilization to the Early National Era. Students will survey the social, cultural, political, economic, and intellectual development of the Colonial Era with an 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. Because this is an honors program course, students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into American history from the colonial period to the early national era.

**HIST 17B**     **History of the United States from**        **4 Units**
                 **1800 to 1900**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in HIST 17BH.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course examines U.S. civilization from 1800 to 1900 and includes a survey of United States history (political, economic, intellectual, cultural, and social developments).

**HIST 17BH**    **History of the United States from**        **4 Units**
                 **1800 to 1900 - HONORS**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in HIST 17B.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course examines U.S. civilization from 1800 to 1900 and includes a survey of United States history (political, economic, intellectual, cultural, and social developments). Because this is an honors program course, students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into American history between 1800 and 1900.

**HIST 17C**     **History of the United States from**        **4 Units**
                 **1900 to the Present**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in HIST 17CH.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course examines American civilization from 1900 to the present and includes a survey of United States history (political, economic, intellectual, cultural, and social developments).

**HIST 17CH**    **History of the United States from**        **4 Units**
                 **1900 to the Present - HONORS**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in HIST 17C.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course examines American civilization from 1900 to the present and includes a survey of United States history (political, economic, intellectual, cultural, and social developments). Because this is an honors program course, students will be expected to complete extra assignments, or an additional longer assignment, to gain deeper insight into American history between 1900 and the present.

**HIST 18A**     **African American History to 1865**          **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 Black/African Americans from their kidnapping from Africa to their enslavement in the Americas until the end of the institution of slavery after the Civil War. The major events in the development of the United States by emphasizing the role of people of African descent in the political, social and economic life of the United States will be analyzed.

**HIST 18B**     **African American History Since 1865**       **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 Black/African American in the United States since the ending of the American Civil War. The major events, policies, themes, experiences, and Black/African American people that shaped the history of the United States will be analyzed. This course will help students understand the role of Black/African Americans 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 to the Black Lives Matter movement against police brutality and the prison industrial complex impacting Black/African Americans today. How institutions, policies, social norms, and laws have historically, and currently oppressed/oppress Black/African Americans will also be examined.

**HIST 19A**     **History of Asian Civilization:**           **4 Units**
                 **China and Japan (to the 19th Century)**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as ASAM 42A. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
This is an introductory history course exploring the development of Chinese and Japanese civilizations from their origins through the 18th century.

**HIST 19B**     **History of Asian Civilization:**           **4 Units**
                 **China and Japan (19th - 21st Centuries)**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as ASAM 42B. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
This is an introductory history course exploring modern China and Japan from the 19th to the 21st centuries.

**HIST 51X**     **Topics in California Political and**        **2 Units**
                 **Diplomatic History**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture (24 hours total per quarter).*
Examination of topics relating to California's political and diplomatic history from the time of the early Spanish explorations through the present, looking at Spanish, Mexican or United States rule.

**HIST 52X**     **Topics in History of Transportation**       **2 Units**
                 **in California**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture (24 hours total per quarter).*
Examination of topics relating to California's transportation history looking at the influences of various cultures and national rulerships from the earliest human occupation to the present.

**HIST 53X**     **Topics in California Historical**           **2 Units**
                 **Sites and Monuments**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture (24 hours total per quarter).*
Topics relating to California's sites and monuments through a historical perspective of various eras and major architects who created or influenced them. Consideration of the political, socioeconomic, geographical and environmental conditions providing the historical and cultural context in which these styles evolved.

**HIST 54X**     **Special Topics: Significant Californians**    **2 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture (24 hours total per quarter).*
Works and achievements of specific Californians will be studied in relation to how they affected the trends, social climate, history, and development of California.

**HIST 55A**     **Racial and Ethnic Communities in**          **2 Units**
                 **California's History**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture (24 hours total per quarter).*
Examination of topics relating to California's racial and ethnic communities throughout its history from the time of the indigenous people until the present day.

**HIST 55B**     **California's Agricultural Heritage**         **2 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture (24 hours total per quarter).*
Examines a variety of aspects of the agricultural heritage of California, from animal husbandry introduced by Spanish explorers in the 18th century, to farm labor organizing of the late 20th century and the proliferation of millions of acres dedicated to viticulture today.

2O20-2O21 DE ANZA COLLEGE CATALOG

**HIST 55C**      **Historical Surveys of California's**      **2 Units**
                       **Environments**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture (24 hours total per quarter).*
Examination of topics relating to California's environmental challenges throughout its history from the time of the indigenous people until the present day.

**HIST 107X**      **Community History**      **2 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture (24 hours total per quarter).*
An overview and appreciation of one or more California communities tracing evolution of land use and development and looking at the influence of Native Americans and various cultures to the present.

# Human Development

**HUMA 10**      **Human Sexuality**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in HUMA 10H.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is a comprehensive study of the biological, psychological, and socio-cultural aspects of human sexuality. Students will explore the values and attitudes, and their relationship to behaviors and behavioral changes, with 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is a comprehensive study of the biological, psychological, and socio-cultural aspects of human sexuality. Students will explore the values and attitudes, and their relationship to behaviors and behavioral changes, with an assessment of various cultural mores and current safe sex practices. Because this is an honors program course, students will focus on critical thinking abilities, the demand for discussions, and clear argumentation. A written analysis is explored at a greater depth and students will complete extra assignments to gain a deeper insight into 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 ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
A multitude of life skills and strategies for success, with emphasis on attaining professional, personal and academic goals in a diverse society will be addressed. 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
The course will examine 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is 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. The 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is 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. The 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. Because this is 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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**      **4 Units**
                       **Religion - HONORS**
*(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 (EWRT 1AS and EWRT 1AT) 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.

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**HUMI 10     Global Religious Perspectives:     4 Units**
**            Judaism, Christianity and Islam**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as ASAM 41. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
This course is 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. It examines the 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.

**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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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     4 Units**
**            Western Perspectives in a Global Context**
*(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 (EWRT 1AS and EWRT 1AT) 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     4 Units**
**            Western Perspectives in a Global**
**            Context - HONORS**
*(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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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

*(See Asian American and Asian Studies for additional course listings.)*

**ICS 2A     Introduction to Peer Mentoring,     2 Units**
**           Leadership, and Community Building**
*(Formerly ICS 52A.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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,     2 Units**
**           Leadership, and Community Building**
*(Formerly ICS 52B.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: ICS 2A.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Two hours lecture (24 hours total per quarter).*
A practicum in peer mentoring, including a focus on interpersonal communication, assessment o student needs, and the implementation of appropriate strategies to improve student success

**ICS 4     Race, Ethnicity and Inequality     4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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     4 Units**
**          in the United States**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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).*
This is a cross-cultural introduction to American art history, with an interdisciplinary analysis of diverse art forms generated by artists of color, including African Americans, Asian Americans, Native Americans, Latinx/Chicanx, 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 and 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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     4 Units
          Exclusion in the U.S.**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course examines race and ethnicity as systematized practices of social classification used to determine belonging and exclusion of groups in the United States. It includes a thematic emphasis on citizenship and immigration, with historical and contemporary comparisons, and the application of theories, concepts, and frameworks towards the analysis of race and ethnicity in local contexts.

**ICS 10     An Introduction to African American     4 Units
           Studies**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is an introduction to the field of African American Studies through history, literature, philosophy, the arts, and culture. Additionally, it 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/African American individuals in the United States will be identified, examined, and authenticated.

**ICS 11     Sankofa: The Roots of the African     4 Units
           American Experience**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This is 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 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, specifically those individuals identifying as Black American or African American. Emphasis will be placed on the historical and psycho-cultural understanding of people of African descent throughout the Diaspora.

**ICS 12     An Introduction to African American     4 Units
           Literature**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
Surveys African American literature in all genres from the mid-eighteenth century to the present. Emphasizes the cultural, historical and social contexts of African American oral and literary expression. Studies writers such as Phillis Wheatley, Zora Neale Hurston, Langston Hughes, Richard Wright, Alice Walker and Toni Morrison.

**ICS 16A     History of Africa to 1800     4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as HIST 16A. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
History of Africa from the Paleolithic period to 1800; an interdisciplinary survey of the emergence and development of African civilizations that focuses on geographical, environmental economic, social, cultural and political issues.

**ICS 16B     History of Africa from 1800 to the Present  4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as HIST 16B. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*

A study of African history in the 19th, 20th, and 21st centuries; an examination of the implications of European expansion into Africa; an analysis of the "Scramble for Africa"; the emergence of independent African nations and the growth of African nationalism.

**ICS 17     Critical Consciousness and     4 Units
           Social Change**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in ICS 17H.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
An exploration of issues related to social change including the development of ways of thinking that promote social change. Students will read classical and contemporary authors on movements for social change, strategies for organizing, and the development of consciousness.

**ICS 17H     Critical Consciousness and Social     4 Units
            Change - HONORS**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in ICS 17 or PHIL 17 or PHIL 17H.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as PHIL 17H. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
An exploration of issues related to social change including the development of ways of thinking that promote social change. Students will read classical and contemporary authors on movements for social change, strategies for organizing, and the development of consciousness. As an honors course the students will be expected to complete extra assignments to gain deeper insight into the subject matter.

**ICS 18A     African American History to 1865     4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as HIST 18A. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
An examination of the history of Black/African Americans from their kidnapping from Africa to their enslavement in the Americas until the end of the institution of slavery after the Civil War. The major events in the development of the United States by emphasizing the role of people of African descent in the political, social and economic life of the United States will be analyzed.

**ICS 18B     African American History Since 1865     4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as HIST 18B. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
An examination of the history of the Black/African American in the United States since the ending of the American Civil War. The major events, policies, themes, experiences, and Black/African American people that shaped the history of the United States will be analyzed. This course will help students understand the role of Black/African Americans 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 to the Black Lives Matter movement against police brutality and the prison industrial complex impacting Black/African Americans today. How institutions, policies, social norms, and laws have historically, and currently oppressed/oppress Black/African Americans will also be examined.

**ICS 19     Making a Difference: Transforming     4 Units
           Relations of Nature, Community, and Power**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course explores the relationships between nature, community, and power and their influence on political struggles and social movements. Students will engage in community-focused problem solving, personal reflection and career exploration. The course will use local examples to explore broader principles.

**ICS 25     Grassroots Democracy: Race,     4 Units
           Politics and the American Promise**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as POLI 15. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
Applied and theoretical learning for students of social justice, this course will examine race, culture and contradictions in the ideal of the American Dream through a comparative analysis of American experiences of migration. Particular emphasis will be on the historical experiences of European immigrants, African Americans, Mexican Americans, and Asian Americans. The course will also discuss the contemporary social and cultural implications of the migration process. Using a multidisciplinary social science approach, attention will be given to issues of race, ethnicity, gender, class, and ecology as well as the role of the state (policy) to the process of migration and immigration.

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

**ICS 26**      **Introduction to Lesbian, Gay,**      **4 Units**
     **Bisexual, Transgender and Queer Studies**
*(Formerly ICS 96.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
An interdisciplinary, multi-perspective, critical analysis and comparative study of the broad range of contemporary lesbian, gay, bisexual, transgender and queer issues in various contexts including biomedical, sociological, political, cultural, economic, racial and sexual. This course will explore the relationship between LGBTQ individuals and the social and political constructs of gender, sexuality, citizenship, and identity as they relate to social and political institutions and national ideologies. The values, experience, and cultural contributions of LGBTQ individuals in the United States will be identified, examined, and authenticated.

**ICS 27**      **Grassroots Democracy:**      **4 Units**
     **Leadership and Power**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in ICS 27H or POLI 17 or POLI 17H.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as POLI 17. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
Applied and theoretical training for students of social justice, this course is a multidisciplinary exploration of social change and popular democratic action with a focus on the meaning and development of political power in modern democracies. Topics to be explored include: gender and race sensitive approaches to leadership style, institutional and mass forums for civic engagement, mass recruitment and mobilization, consciousness development, democratic ethics, and strategic and tactical action.

**ICS 27H**      **Grassroots Democracy:**      **4 Units**
     **Leadership and Power - HONORS**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in ICS 27 or POLI 17 or POLI 17H.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as POLI 17H. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
Applied and theoretical training for students of social justice, this course is a multidisciplinary exploration of social change and popular democratic action with a focus on the meaning and development of political power in modern democracies. Topics to be explored include: gender and race sensitive approaches to leadership style, institutional and mass forums for civic engagement, mass recruitment and mobilization, consciousness development, democratic ethics, and strategic and tactical action. As an honors course the students will be expected to complete extra assignments to gain deeper insight into the issues raised in this class.

**ICS 29**      **Cultural Pluralism and American**      **4 Units**
     **Law and Justice**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as ADMJ 29. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
An interdisciplinary study of marginalized peoples and their relationship to the law. Examines the legal perspective on cultural diversity in the United States by examining groups based on race, ethnicity, gender, class, religious background, disability, and sexual orientation. Analyzes how these groups interact with mainstream society through American law, concentrating on both historical and contemporary state and federal legislation and court rulings. Analyzes how the courts play a role in determining the status of minority groups. Analyzes the effect of law on cultural pluralism and cultural diversity in the United States.

**ICS 30**      **Introduction to Chicanx and Latinx**      **4 Units**
     **Studies**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course explores the Chicanx and Latinx experience with emphasis on the cultural and historical development, and the socioeconomic and political status of their contemporary communities.

**ICS 31**      **Chicanx Culture**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course explores the origins and development of the Chicanx culture with an emphasis on the values, religions, philosophies, and lifestyles of Chicanx people. The course will introduce students to issues regarding identity, language, music, food, traditions, festivals, literature, and art with an emphasis on the sociopolitical and cultural dynamics.

**ICS 32**      **Chicanx and Latinx History**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course examines the history of the Chicanx and Latinx people, surveying pre-Columbian origins, with an emphasis on the period since 1848 in the United States Southwest.

**ICS 33**      **The Chicanx and Latinx and the Arts**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is a survey and analysis of contemporary Chicanx and Latinx art, film, theater, music, and literature, and their relationship to the Chicanx and Latinx experiences.

**ICS 35**      **Chicano/a, Latino/a Literature**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course will survey Chicano/a, Latino/a literature in its various forms, with emphasis on contemporary authors, from the 1940s to the present.

**ICS 36**      **Grassroots Democracy: Social**      **4 Units**
     **Movements Since the 1960s**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as POLI 16. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
Applied and theoretical learning for students of social justice, this course is a comparative survey of protest movements since the 1960s. An introductory, comparative, and interdisciplinary study of Mexican American, African American, Asian American, and white working class social and political struggles from 1960 to the present. The course traces the development of protest movements in response to racial, class, gender, ecological and political inequality in the context of U.S. politics and history. The course critically examines the internal and external factors contributing to the rise and fall of social and political movements with special attention to the conjuncture of ecology, gender, race, ethnicity, culture, class, and sexual orientation in contemporary U.S. politics.

**ICS 37**      **Ancient Peoples of Mesoamerica**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This is an 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. The course commences with the earliest known evidence of human occupation in Mesoamerica, progressing through the development of agriculturally-based societies.

**ICS 38A**      **Colonial Latin American History**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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).*
This course examines Colonial Latin America and its role in the Atlantic world (to 1825) including the independence movements. Themes in the course cover social, intellectual, and cultural developments, the 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 (EWRT 1AS and EWRT 1AT) 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).*
This course examines Latin American history from post-colonialism to the present (1810 to the present) and focuses on understanding the region as a diverse geographic, political, and social reality. Special attention will be given to the 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is an exploration of contemporary Native American perspectives about economic, political, legal, and cultural changes impacting tribal cultures in the 20th and 21st centuries. Students will analyze issues regarding identity, the role of the federal government, economic development, health, cultural loss and preservation, reservation vs. urban communities, and sovereignty 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course examines the lives and experiences of California Native Americans - past and present. Students will survey California Natives' pre-historic pasts, diverse cultures, and histories from a Native perspective. The course includes a study of oral and cultural traditions, up to and inclusive of contemporary American Indian issues, along with a 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course covers Native American history from an indigenous perspective, from pre-Columbian contact to present. Students will examine 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This is 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 a 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This is 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 American 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is a study of historical and contemporary literature written by Native Americans. Students will analyze fiction and non-fiction through oral traditions, stories, poetry, plays, and memoirs. The course will also examine the historical, social, and political contexts of Native American literature, with a focus on issues of Native identity, culture, and worldview.

**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 (EWRT 1AS and EWRT 1AT) 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 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**      **1/2 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 (EWRT 1AS and EWRT 1AT) 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 - Intrapersonal**      **1/2 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).*
This course involves community engagement and reflection on how that engagement impacts one's own personal development.

**ICS 81**      **Community Based Learning in Intercultural Studies - Interpersonal**      **1/2 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).*
This course provides students with practical work in a community, business, or civic institution and reflection on the interpersonal aspects of that engagement work.

**ICS 82**      **Community Based Learning in Intercultural Studies - Systems**      **1/2 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).*
This course provides students with practical work in a community, business, or civic institution and reflection on the implications of that engagement work on changing social systems.

# International Studies

*(See Asian American and Asian Studies for additional course listings.)*

**INTL 5**      **Global Issues**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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).*
An 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 16**      **Multicultural Voices in Germany**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
An interdisciplinary introduction to contemporary multicultural Germany through the lens of film, literature, and music. A critical analysis of how filmmakers, writers, and other artists from Afro-German, Turkish-German, and other backgrounds are creating new modes of representation that engage with issues of marginalization, ethnicity, citizenship, cultural and linguistic hybridity, gender, post-colonialism, and national identity in the unique German cultural and political context. Course conducted in English.

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**INTL 21**      **History of Art: Native Arts of**      **4 Units**
                          **Mesoamerica and the Andes**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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,**      **4 Units**
                          **Oceania and Native North America**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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**      **4 Units**
                          **Studies**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 and Library for 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 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 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
Development of elementary language skills for oral and written communication using language structures and functions targeted for the third level of elementary Italian. Italian is the working language. Focus is on greater structural accuracy and communicative competence within the framework of language as a fundamental aspect of culture. Online language practice and assignments are an integral part of instruction, supporting the development of language skills in the areas of pronunciation, structure, syntax and oral communication.

# Japanese

**JAPN 1**      **Elementary Japanese (First Quarter)**      **5 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
An 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 an understanding of the language structure will also be emphasized. Mastering of two of the Japanese syllabic writing systems, hiragana and katakana, and 29 kanji (Chinese characters) 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
A continuation of the 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 an understanding of the language structure will also be emphasized. In addition to practicing two of the Japanese syllabic writing systems, hiragana and katakana, and 29 kanji, 57 more 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
A continuation of the 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 an understanding of the language structure will be further emphasized. Fifty-nine more kanji, Sino-Japanese characters will be introduced. Students are expected to integrate three writing systems in order to demonstrate authentic writing skills.

**JAPN 4**      **Intermediate Japanese (First Quarter)**      **5 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: JAPN 3 (equivalent to three years of high school Japanese)*
*or equivalent.*
*Advisory: EWRT 211 and READ 211, or 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. Sixty-four more kanji, Sino-Japanese characters will be introduced. Students will develop low intermediate level 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 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 an understanding of the language structures which will also be emphasized. Sixty-two more kanji, Sino-Japanese characters will be introduced. Students will develop intermediate level 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 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 an understanding of the language structures should also be emphasized. Forty-six more kanji, Sino-Japanese characters will be introduced. Students will develop high intermediate level reading strategies and writing skills integrating hiragana, katakana, and kanji.

# Journalism

**JOUR 2**      **Media and Its Impact On Society**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
A survey of the mass media's cultural and industrial functions in society. Introduction to methods of studying how media systems developed historically and how they are evolving in the U.S. and globally, as well as how people use and make meaning with media as part of everyday life. Methods and theories to understand media's social, economic and political impact, considering media production, forms, reception, and influence. Ethical and legal implications of media including print, film, recorded music, TV, video gaming and online media. Interplay of media and gender, ethnic and minority communities.

**JOUR 21A**      **News Writing and Reporting**      **3 Units**
*Prerequisite: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 news experience.

**JOUR 21B**      **Feature Writing and Reporting**      **3 Units**
*Prerequisite: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Advisory: JOUR 21A.*
*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, enterprise news, and opinion features. Practical experience in interviewing, writing special story types and revising.

**JOUR 61A**      **Student News Media Production I**      **3 Units**
*(Formerly JOUR 61.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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.

**JOUR 61B**      **Student News Media Production II**      **3 Units**
*Prerequisite: JOUR 61A.*
*Nine hours laboratory (108 hours total per quarter).*
Practical experience in creating longer and complex news, feature and visual content as a member of the college newspaper, magazine or online media staff.

**JOUR 61C**      **Editorial Leadership for Student**      **3 Units**
                 **News Media**
*Prerequisite: JOUR 61A.*
*Nine hours laboratory (108 hours total per quarter).*
Practical experience in planning, assigning, editing and placing print, video and/or web content as members of the college newspaper, magazine or media staff.

**JOUR 62A**      **Freelance Reporting for Student Media**      **1 Unit**
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Three hours laboratory (36 hours total per quarter).*
Practical experience contributing as a freelance reporter to the college newspaper and/or digital media as a reporter.

**JOUR 62B**      **Freelance Photography for Student Media**      **1 Unit**
*Advisory: PHTG 4.*
*Three hours laboratory (36 hours total per quarter).*
Practical experience contributing as a freelance photographer to the college newspaper and/or digital media as a reporter.

**JOUR 62C**      **Freelance Video Production for**      **1 Unit**
                 **Student Media**
*Advisory: F/TV 20.*
*Three hours laboratory (36 hours total per quarter).*
Practical experience contributing as a freelance video reporter or producer for the college news media.

**JOUR 62D**      **Freelance Digital Production for**      **1 Unit**
                 **Student Media**
*Requisite/Advisory: None.*
*Three hours laboratory (36 hours total per quarter).*
Practical experience contributing as a freelance digital content producer to the college news media.

**JOUR 62E**      **Freelance Graphic Production for**      **1 Unit**
                 **Student Media**
*Advisory: ARTS 53E.*
*Three hours laboratory (36 hours total per quarter).*
Practical experience contributing as a graphic news producer to the college newspaper and/or digital media as a reporter.

**JOUR 62F**      **Freelance Copy Editing for Student Media**      **1 Unit**
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Three hours laboratory (36 hours total per quarter).*
Practical experience contributing as a copy editor for the college newspaper and/or digital media.

**JOUR 77W**      **Special Projects in Journalism**      **1 Unit**
*Prerequisite: Consent of instructor and division dean.*
*Three hours laboratory (36 hours total per quarter).*
Special research, writing or study projects in Journalism as determined in consultation with the department chair. Can be used by students producing media content as part of an internship or other special projects.

**JOUR 78W**      **Special Topics in Journalism**      **1 Unit**
**JOUR 78X**                                            **2 Units**
*Requisite/Advisory: None.*
*One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).*
Intensive study and analysis of a special topic in Journalism. Subjects vary. (Complexity of topic determines the number of units assigned.)

**JOUR 80**      **Introduction to Public Relations**      **4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
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.

**JOUR 90**      **Introduction to Multimedia Reporting**      **4 Units**
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
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.

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**JOUR 361A    Student News Media Production I         0 Units**
*(This is a noncredit CTE course.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5;*
*F/TV 20.*
*(No limit on student re-enrollment for 0 unit courses.)*
*Pass-No Pass (P-NP) course.*
*Nine hours laboratory (108 hours total per quarter).*
This course allows students to gain practical experience in creating basic news and feature content as members of the college newspaper, magazine or online media staff.

# Kinesiology

**KNES 1A    Novice Swimming         1/2 Unit**
*(Formerly P E 26A. )*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours laboratory (24 hours total per quarter).*
*(This course is included in the Aquatics Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to Physical Education through novice swimming. Skills and techniques for the non-swimmer will be covered. Global and historical development of swimming as a fitness activity, novice stroke skills, survival methods, overcoming fear of water, and safety will be included. American Red Cross stroke standards will be followed but adaptations will be allowed based on physical ability, age, strength and gender. Students will review basic exercise physiology and nutrition appropriate to swimming.

**KNES 1B    Beginning Swimming         1/2 Unit**
*(Formerly P E 26B.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 1A or pass swimming placement test which consists of swimming 25 yards in deep water.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours laboratory (24 hours total per quarter).*
*(This course is included in the Aquatics Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to Physical Education through the development of skills and techniques for the beginning swimmer. Global and historical development of swimming as a fitness and competitive activity will be discussed. Beginning stroke skills, survival methods, diving from the side of the pool, and deep water swimming will be covered. American Red Cross stroke standards will be followed but adaptations will be allowed based on physical ability, age, strength and gender. Students will review basic exercise physiology and nutrition appropriate to swimming.

**KNES 1C    Intermediate Swimming         1/2 Unit**
**KNES 1CX                 1 Unit**
*(Formerly P E 26C and P E 26CX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 1B or equivalent swimming skills.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction into Physical Education through skills and techniques for the intermediate swimmer. Global and historical development of swimming as a fitness and competitive activity will be discussed. Intermediate stroke skills, spring board diving, turns, and water safety will be covered. The student will be expected to swim greater lengths with increased motor skills. American Red Cross stroke standards will be followed but adaptations will be allowed based on physical ability, age, strength and gender. Students will review basic exercise physiology and nutrition appropriate to swimming.

**KNES 1D    Advanced Swimming         1/2 Unit**
**KNES 1DX                 1 Unit**
*(Formerly P E 26D and P E 26DX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 1C or KNES 1CX, or equivalent swimming skills.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to Physical Education through skills and techniques for the advanced swimmer. Global and historical development of swimming as a fitness and competitive activity will be discussed. Advanced stroke skills, endurance swimming, racing turns and starts, and spring board diving will be covered. The student will perform skills at a greater speed and distance at an advanced motor skill level. American Red Cross stroke standards will be followed but adaptations will be allowed based on physical ability, age, strength and gender. Students will review basic exercise physiology and nutrition appropriate to swimming.

**KNES 2A    Aerobic Swimming         1/2 Unit**
**KNES 2AX                 1 Unit**
*(Formerly P E 6G and P E 6GX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 1C or KNES 1CX, or permission of instructor.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Physical Education through aerobic swimming. Cardiovascular conditioning for the swimmer who is proficient at the intermediate level. Includes global and historical development of swimming as a fitness activity. Students will review training methods, measurements, safety, individual program design, exercise physiology, nutrition appropriate to swimming, intermediate strokes and turns.

**KNES 2B    Deep Water Running         1/2 Unit**
**KNES 2BX                 1 Unit**
*(Formerly P E 6F and P E 6FX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite:KNES 1C or KNES 1CX or permission from instructor.*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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.

**KNES 5A    Indoor Cycling         1/2 Unit**
**KNES 5AX                 1 Unit**
*(Formerly P E 3 and P E 3X respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Physical Education through indoor cycling. Includes an historical examination of indoor cycling/spinning. The cycling program is an individually paced, noncompetitive, group training program designed for all riders and all fitness levels. Cycling is an exercise performed on a stationary racing bicycle and is performed to music. Training is fast paced and is open to anyone who is interested in losing body fat, improving cycling techniques, and wants to improve cardio-respiration.

**KNES 5B    High Intensity Indoor Cycling         1/2 Unit**
**KNES 5BX                 1 Unit**
*(Formerly P E 3B and P E 3BX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 training levels. Using interval training students 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.

**KNES 6A    Aerobic Power Walking         1/2 Unit**
**KNES 6AX                 1 Unit**
*(Formerly P E 6H and P E 6HX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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

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various distances, routes and at variable speeds. The importance of strength development, and flexibility exercises, adaptations of the exercises to individual physical abilities and principles of fitness and nutrition will be discussed.

**KNES 7A**     **Step Aerobics**     **1/2 Unit**
**KNES 7AX**     **1 Unit**
*(Formerly P E 6S and P E 6SX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Physical Education through cardiovascular/ aerobic exercise utilizing a step system to promote cardiorespiratory endurance through a variety of movements. Students will learn fundamental patterns and routines with popular music accompaniment. Global and historical review of the evolution of aerobic exercise, exercise trends for men, women and athletes will be discussed. Students will review and apply basic exercise physiology, nutrition and wellness concepts related to cardiovascular exercise, strength development and flexibility relative to age, gender, or physical limitations.

**KNES 9A**     **Interactive Cardiovascular Fitness**     **1/2 Unit**
    **and Activity Tracking 1**
**KNES 9AX**     **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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**     **1/2 Unit**
    **and Activity Tracking 2**
**KNES 9BX**     **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 P E 6K and P E 6KX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 11B**     **Cardio Kick 2**     **1/2 Unit**
**KNES 11BX**     **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 11A or KNES 11AX.*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 at an intermediate level. 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 at an intermediate level. Students will participate in a safe, modifiable, program to improve overall fitness, agility, balance, strength, and endurance at an intermediate level. An historical examination of cardio kick for fitness and its roots in the sports of kickboxing, boxing, and martial arts will be included.

**KNES 12D**     **Beginning Karate**     **1/2 Unit**
**KNES 12DX**     **1 Unit**
*(Formerly P E 2A and P E 2AX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Kinesiology 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 P E 2B and P E 2BX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 12D or KNES 12DX, or approval of instructor.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 P E 3G.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This course introduces the discipline of Kinesiology through Tai Chi exercises including well-known short forms consisting of 24 postures. The principles of unity, centering, balance, alignment, breath and mind intent, "yin and yang" relationships, and the development of Chi are examined, along with the 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" are explored. There will also be a global and historical examination of the Taoist philosophy and the development of various forms of Tai Chi.

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**KNES 12J**     **Intermediate Tai Chi**     **1/2 Unit**
**KNES 12JX**     **1 Unit**
*(Formerly P E 2R and P E 2RX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 12H or KNES 12HX, or comparable level, or permission of instructor.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Further examination of Physical Education through the ancient exercise of Tai Chi. Includes the well-known short forms consisting of 24 or 36 postures. Complete and polish movements of the 24 Tai Chi set, self-defense applications, "push-hands," and sparring will be performed. Review and embody principles of unity, centering, balance, alignment, breath and mind intent, "yin and yang" relationships and the development of Tai Chi at an intermediate level. Benefits of Tai Chi exercise relative to age, gender and environmental conditions will be studied. The course will incorporate basic exercise physiology, nutrition, strength development, flexibility and meditation techniques as related to Tai Chi and health.

**KNES 15A**     **Cross Training**     **1/2 Unit**
**KNES 15AX**     **1 Unit**
*(Formerly P E 6B and P E 6BX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).*
*(This course is included in the Cross Training Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Physical Education including a historical examination of cross training. Cardiovascular fitness will be increased through circuit and interval training. Agility, speed, strength, and flexibility will be enhanced through the utilization of a variety of fitness equipment. Strength, cardiovascular, flexibility, and body composition assessments will be included in course activities. Students will participate indoors as well as outdoors.

**KNES 15C**     **Total Fitness**     **1/2 Unit**
**KNES 15CX**     **1 Unit**
*(Formerly P E 8 and P E 8X respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).*
*(This course is included in the Cross Training Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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.

**KNES 15E**     **Cardiovascular and Strength Training**     **1/2 Unit**
**KNES 15EX**     **1 Unit**
**KNES 15EY**     **1 1/2 Units**
*(Formerly P E 9, 9X and 9Y respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter); four and one-half hours laboratory for the one and one-half units course (54 hours total per quarter).*
*(This course is included in the Cross Training Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Physical Education through cardiovascular and strength training. Includes rules, equipment, facilities, etiquette, safety and technique of cardiovascular and strength training. Includes a brief historical examination of how cardiovascular and strength training has changed due to the influence of individuals and their countries. Students will review and apply basic exercise physiology, nutrition, and flexibility concepts to improve their physical condition.

**KNES 15F**     **High Intensity Interval Training - HIIT**     **1/2 Unit**
**KNES 15FX**     **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).*
*(This course is included in the Cross Training Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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.

**KNES 16A**     **Fit Camp**     **1/2 Unit**
**KNES 16AX**     **1 Unit**
**KNES 16AY**     **1 1/2 Units**
*(Formerly P E 6U, 6UX, and 6UY respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter); four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter).*
*(This course is included in the Cross Training Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Kinesiology through fit camp. A historical examination of fit camp for fitness which includes a look at the U.S. Military boot camp regimen. The student will strive for ultimate fitness through a program of cardiovascular exercise including circuit and intervals, balance, agility, speed, strength, and flexibility training both indoors and outdoors. Strength, cardiovascular fitness, flexibility, and body composition assessments will occur throughout the term.

**KNES 17A**     **Plyometric Conditioning 1**     **1/2 Unit**
**KNES 17AX**     **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours laboratory for the one-half unit course (24 hours total per quarter); three hours laboratory for the one unit course (36 hours total per quarter).*
*(This course is included in the Cross Training Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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.

**KNES 19A**     **Strength Development**     **1/2 Unit**
**KNES 19AX**     **1 Unit**
*(Formerly P E 4 and P E 4X respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Kinesiology through strength training. Includes etiquette, safety and techniques of strength development, with a brief historical examination of how strength training has changed due to the influence of individuals, and their style of lifting. The development of skill and adaptations based on the physical ability, age and gender of the individual student will be encouraged. Students will review and apply basic exercise physiology, nutrition, flexibility and strength concepts to improve their physical condition.

**KNES 19B**     **Strength Development 2**     **1/2 Unit**
**KNES 19BX**     **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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.

**KNES 19D**     **Resistance Training 1**     **1/2 Unit**
**KNES 19DX**     **1 Unit**
*(Formerly P E 4Y and P E 4YX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This course is an introduction to Kinesiology through the training for muscular endurance. It includes safety, etiquette, and techniques for developing muscular endurance through resistance and weight training. A global and historical view of muscular endurance training and the role in total fitness will be examined. This course focuses on the basic concepts of strength, agility, and how to improve one's physical condition.

**KNES 19E**     **Body Sculpting**     **1/2 Unit**
**KNES 19EX**     **1 Unit**
*(Formerly P E 6D and P E 6DX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of*
*the catalog.)*
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.

**KNES 19G**     **Core Conditioning**     **1/2 Unit**
**KNES 19GX**     **1 Unit**
*(Formerly P E 6V and P E 6VX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of*
*the catalog.)*
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 a historical examination of core strengthening. Concentration will be on the muscles of the torso, back, hips, inner and outer thighs, chest, and abdominals. Mat work emphasizing breathing techniques, posture, and muscle awareness will be utilized.

**KNES 20A**     **Circuit Training 1**     **1/2 Unit**
**KNES 20AX**     **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of*
*the catalog.)*
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.

**KNES 22A**     **Hatha Yoga**     **1/2 Unit**
**KNES 22AX**     **1 Unit**
*(Formerly P E 2Y and P E 2YX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of*
*the catalog.)*
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.

**KNES 22B**     **Yoga for Relaxation**     **1/2 Unit**
**KNES 22BX**     **1 Unit**
*(Formerly P E 2G and P E 2GX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of*
*the catalog.)*
An introduction to the discipline of Physical Education through the study of yoga for relaxation. Includes a global and historical examination and key philosophical concepts of the yoga tradition. Students will practice yoga techniques to relax the mind and the body. Includes breath awareness and stress reduction techniques. Basic exercise physiology, nutrition, strength development, and flexibility will be covered.

**KNES 22C**     **Power Yoga**     **1/2 Unit**
**KNES 22CX**     **1 Unit**
*(Formerly P E 2D and 2DX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of*
*the catalog.)*
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.

**KNES 22D**     **Flow Yoga**     **1/2 Unit**
**KNES 22DX**     **1 Unit**
*(Formerly P E 2E and P E 2EX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of*
*the catalog.)*
This course is an introduction to Kinesiology through flow yoga and includes a historical examination and key philosophical concepts of the yoga tradition, as well as the evolution of yoga throughout the ages. It is designed to introduce students to the flow element of yoga which emphasizes a mind-body connection from pose to pose, breathing techniques, flexibility, and relaxation. Basic exercise physiology, nutrition, flexibility, strength, and mental concepts to improve one's physical condition, including variables which occur due to age, gender, and physical conditions will be covered.

**KNES 22E**     **Yoga/Pilates Combo**     **1/2 Unit**
**KNES 22EX**     **1 Unit**
*(Formerly P E 2F and P E 2FX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of*
*the catalog.)*
An introduction to the discipline of physical education through the study of the mind-body connection. Includes a global and historical perspective of mind-body exercise including Yoga and Pilates. Students will practice breathing techniques and examine different ways to center and focus the mind and body using both mat Pilates and Yogic asanas. Basic exercise physiology, nutrition, strength development, and flexibility will be covered.

**KNES 25A**     **Stretching**     **1/2 Unit**
**KNES 25AX**     **1 Unit**
*(Formerly P E 11 and P E 11X respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of*
*the catalog.)*
An introduction to the discipline of Kineseology through stretching. Techniques for improving flexibility including passive and active stretches, partner stretches, and stretches using stability balls and yoga straps will be included. Emphasis will be placed upon flexibility, balance, spatial awareness and safety during stretching. Technique modifications to account for physical limitations will be emphasized. A brief examination of the evolution of the various forms of stretching reflecting cultural, gender, and age differences, exercise physiology, nutrition and wellness concepts related to total fitness, disabilities and/or genetics will be covered.

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**KNES 25B**     **Active Isolated Stretching**     **1/2 Unit**
**KNES 25BX**     **1 Unit**
*(Formerly P E 11C and P E 11CX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of*
*the catalog.)*
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.

**KNES 26A**     **Basic Pilates Mat Exercise**     **1/2 Unit**
**KNES 26AX**     **1 Unit**
*(Formerly P E 2P and P E 2PX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of*
*the catalog.)*
An introduction to Kinesiology through the study of Pilates. Includes a global and historical perspective, key philosophical points, 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.

**KNES 26B**     **Integrated Pilates Mat Exercise**     **1/2 Unit**
**KNES 26BX**     **1 Unit**
*(Formerly P E 2T and P E 2TX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 26A or KNES 26AX, or approval of instructor.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of*
*the catalog.)*
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.

**KNES 29A**     **Fencing Level 1**     **1/2 Unit**
*(Formerly P E 14A.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to Physical Education through the sport of fencing. Level 1 of fencing will teach the student fundamental techniques/skills utilizing the French foil. The rules and regulations governing fencing will be covered. Exercise physiology, nutrition and wellness concepts related to total fitness and individual variations due to age, gender, and/or genetics will be explored. A brief historical examination of the various styles of this international sport will be included.

**KNES 29B**     **Fencing Level 2**     **1/2 Unit**
*(Formerly P E 14B.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 29A or comparable course.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 in Level 1 are transferable for use of the epee and sabre. The physiological benefits of fencing, fundamental exercise physiology, nutrition and wellness concepts related to total fitness and individual variations due to age, gender, and genetics will be explored.

**KNES 30A**     **Beginning Golf**     **1/2 Unit**
*(Formerly P E 16A.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 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*
*the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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.

**KNES 30B**     **Advanced Beginning Golf**     **1/2 Unit**
**KNES 30BX**     **1 Unit**
*(Formerly P E 16D and P E 16DX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 30A or permission of instructor.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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.

**KNES 30C**     **Intermediate Golf**     **1/2 Unit**
*(Formerly P E 16B.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 30B or KNES 30BX, or instructor permission.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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.

**KNES 31A**     **Beginning Badminton**     **1/2 Unit**
**KNES 31AX**     **1 Unit**
*(Formerly P E 13A and P E 13AX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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*
*the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Physical Education through badminton. Includes a global and historical examination of the sport, rules, equipment, facilities, etiquette, and basic strokes in beginning level badminton. Basic exercise physiology, nutrition, flexibility and strength concepts to improve physical condition will be discussed. The skills portion of the course will encourage an understanding of how to adapt the game and conventional techniques to age, gender and physical conditions.

**KNES 31B**     **Intermediate Badminton**     **1/2 Unit**
**KNES 31BX**     **1 Unit**
*(Formerly P E 13B and P E 13BX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 31A or KNES 31AX, or permission of instructor.*
*Advisory: EWRT 211 and READ 211, or 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*
*the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Physical Education through the sport of badminton. Includes a global and historical examination of the sport, rules, equipment, facilities and etiquette. Basic exercise physiology, nutrition, fundamentals of strength development and flexibility relative to playing at an intermediate level will be included. The course will encourage an understanding of how to adapt game strategies and conventional techniques to one's needs and abilities based on age, gender and environmental conditions, personal strengths and weaknesses.

**KNES 31C** **Advanced Badminton** 1/2 Unit
**KNES 31CX** 1 Unit
*(Formerly P E 13C and P E 13CX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 31B or KNES 31BX, or consent of the instructor.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Further examination of Physical Education through the sport of badminton. Includes an in depth study of the sport at an advanced level, rules, equipment, facilities, etiquette, and advanced skills and strategy as related to competitive play. Basic exercise physiology, nutrition, flexibility and strength concepts to improve physical condition in order to play at a more advanced level will be covered. The skills portion of the course will encourage an understanding of how to adapt the game and conventional techniques to age, gender and physical conditions.

**KNES 32A** **Beginning Tennis** 1/2 Unit
**KNES 32AX** 1 Unit
*(Formerly P E 21A and P E 21AX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Physical Education through the sport of tennis. Basic ground-strokes, serve and footwork as well as basic singles' and doubles' strategies will be covered. Includes a brief historical examination of the sport, rules, equipment, facilities and etiquette. Students will strive to understand and apply basic exercise physiology, nutrition, flexibility and strength concepts to improve their physical condition in order to play at a more advanced level and to adapt the game to their individual physical ability, age, and gender.

**KNES 32B** **Advanced Beginning Tennis** 1/2 Unit
**KNES 32BX** 1 Unit
*(Formerly P E 21B and P E 21BX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 32A or KNES 32AX, or equivalent skills.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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.

**KNES 32C** **Intermediate Tennis** 1/2 Unit
**KNES 32CX** 1 Unit
*(Formerly P E 21C and P E 21CX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 32B or KNES 32BX, or equivalent skills.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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.

**KNES 32D** **Advanced Tennis** 1/2 Unit
**KNES 32DX** 1 Unit
*(Formerly P E 21D and P E 21DX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 32C or 32CX, or equivalent skills based on instructor's evaluation.*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This course further examines Kinesiology through tennis. Basic exercise physiology, nutrition, fundamentals of strength development and flexibility relative to playing at an advanced level will be included. The course will encourage an understanding of how to adapt game strategies and conventional techniques to one's needs and abilities based on age, gender and environmental conditions, personal strengths and weaknesses.

**KNES 32E** **Beginning Table Tennis** 1/2 Unit
**KNES 32EX** 1 Unit
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Physical Education through table tennis. Includes a global and historical examination of the sport, rules, equipment, facilities, etiquette, and basic strokes in beginning level table tennis. Basic exercise physiology, nutrition, flexibility and strength concepts to improve physical condition will be discussed. The skills portion of the course will encourage an understanding of how to adapt the game and conventional techniques to age, gender and physical conditions.

**KNES 32F** **Intermediate Table Tennis** 1/2 Unit
**KNES 32FX** 1 Unit
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 32E or KNES 32EX.*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Development of consistency, accuracy and control for forehand, backhand strokes, and serve. Introducing elements of changing the dynamics of the game with spins; basic singles and doubles strategies. Includes a global and historical examination of the sport, rules, equipment, facilities, etiquette, in intermediate level table tennis. Basic exercise physiology, nutrition, flexibility and strength concepts to improve physical condition will be discussed. The skills portion of the course will encourage an understanding of how to adapt the game and conventional techniques to age, gender and physical conditions.

**KNES 36A** **Team Sport - Basketball Level 1** 1/2 Unit
**KNES 36AX** 1 Unit
*(Formerly P E 1H and P E 1HX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(This course is included in the Team Sports Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Kinesiology through beginning 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.

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

**KNES 37A**     **Soccer**     **1/2 Unit**
**KNES 37AX**     **1 Unit**
*(Formerly P E 33A and P E 33AX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introductory course to enhance skills used in the game of soccer, including a global perspective and the contributions of both male and female soccer experts and players. Emphasis will be placed upon the four major pillars of the game: technical ability, tactical understanding, physical fitness, and the mental approach necessary to compete successfully in match play. Strategies and tactics of the game will also be discussed and performed. There will be an introduction to the laws of the game, equipment, fair play, flexibility, nutrition, and the nuances of the game. Use of the Internet and other media sources will be encouraged to further understand the world's most popular game.

**KNES 37B**     **Soccer Level 2**     **1/2 Unit**
**KNES 37BX**     **1 Unit**
*(Formerly P E 33D and P E 33DX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 37A or KNES 37AX, or equivalent skills.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Kinesiology through the game of soccer, including a global perspective and the contributions of both male and female soccer experts and players. Emphasis will be placed upon the four major pillars of the game: technical ability, tactical understanding, physical fitness, and the mental approach necessary to compete successfully in match play. Technical skills and small group strategies and tactics will be introduced and performed. There will be a discussion introducing additional laws of the game, equipment, fair play, flexibility, nutrition, and the nuances of the game. Use of the Internet and other media sources will be encouraged to further understand the world's most popular game.

**KNES 37C**     **Soccer Level 3**     **1/2 Unit**
**KNES 37CX**     **1 Unit**
*(Formerly P E 33E and P E 33EX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 37B or KNES 37BX, or equivalent skills.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of physical education through the game of soccer, including a global perspective and the contributions of both male and female soccer experts and players. Emphasis will be placed upon the four major pillars of the game: technical ability, tactical understanding, physical fitness, and the mental approach necessary to compete successfully in match play. Team offensive and defensive skills, strategies and tactics will be introduced and performed. There will be a discussion on additional laws of the game, equipment, fair play, flexibility, nutrition, and the nuances of the game. Use of the Internet and other media sources will be encouraged to further understand the world's most popular game.

**KNES 37D**     **Soccer Level 4**     **1/2 Unit**
**KNES 37DX**     **1 Unit**
*(Formerly P E 33F and P E 33FX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 37C or KNES 37CX, or equivalent skills.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of physical education through the game of soccer, including a global perspective and the contributions of both male and female soccer experts and players. Emphasis will be placed upon the four major pillars of the game: technical ability, tactical understanding, physical fitness, and the mental approach necessary to compete successfully in match play. Tactical skills and comprehensive team strategies will be practiced and performed. There will be a discussion introducing additional laws of the game, equipment, fair play, flexibility, nutrition, and the nuances of the game. Use of the Internet and other media sources will be encouraged to further understand the world's most popular game.

**KNES 37E**     **Indoor Soccer**     **1/2 Unit**
*(Formerly P E 33I.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours laboratory (24 hours total per quarter).*
*(This course is included in the Team Sports Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Physical Education through the sport of indoor soccer. Includes a global perspective and the contributions of both male and female soccer experts and players. Emphasis will be placed upon the four major pillars of the game, strategies and tactics of the game will also be discussed and performed. There will be an introduction to the laws of the game, equipment, fair play, flexibility, nutrition, and the nuances of the game. Use of the Internet and other media sources will be encouraged to further understand indoor soccer.

**KNES 38A**     **Futsal Level 1**     **1/2 Unit**
**KNES 38AX**     **1 Unit**
*(Formerly P E 33J and P E 33JX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This course introduces the discipline of Kinesiology through futsal (basic beginner level). Introductory skills at the beginning level will be learned for this game played indoors on a basketball court. The course will include a global perspective of futsal and a historical review of the sport. Emphasis will be placed upon the four major pillars of the game: with a basic understanding of the sport and the ability to be able to perform basic moves of elementary futsal. An introduction to the laws of the game pertaining to individual and pairs play, proper equipment, fair play, flexibility, and nutrition will be discussed.

**KNES 38B**     **Futsal Level 2**     **1/2 Unit**
**KNES 38BX**     **1 Unit**
*(Formerly P E 33K and P E 33KX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 38A or KNES 38AX, or equivalent skills.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This course is a further introduction to Kinesiology through the sport of futsal (advanced beginner level). The focus will be on the advancement in futsal skills, including technical ability, and tactical understanding for this game played indoors on a basketball court. The course includes a global perspective of futsal and a historical review of the sport. Advanced-beginner level skills and small group (partners) strategies and tactics will be performed. An introduction to the laws of the game pertaining to free kicks, kick-ins, goal kicks, and corner kicks will be discussed.

**KNES 38C**     **Futsal Level 3**     **1/2 Unit**
**KNES 38CX**     **1 Unit**
*(Formerly P E 33L and P E 33LX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 38B or KNES 38BX, or equivalent skills.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This course is an introduction to Kinesiology through futsal (intermediate level) and includes a global perspective of futsal and a historical review of the sport. Emphasis will be placed on the technical ability at level 3. Tactical techniques, increased fitness, and the mental approach necessary to compete in match play will also be emphasized, while full side strategies and tactics will be discussed and performed. Nutrition, muscular endurance, stretching, and nutrition will be highlighted in the course.

**KNES 38D**     **Futsal Level 4**     **1/2 Unit**
**KNES 38DX**     **1 Unit**
*(Formerly P E 33M and P E 33MX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 38C or KNES 38CX, or equivalent skill.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This course is an introduction to the field of Kinesiology through the game of Futsal. More enhanced skills used in the game of futsal are the focus of this course and

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is taught at the competitive level for the more advanced student. Technical ability, tactical understanding, physical fitness, and the mental approach necessary to compete successfully in match play will be emphasized. Competitive skills and full team strategies and tactics will be discussed and performed. There will be a discussion introducing additional laws of the game, the role of referee, match fitness, nutrition, and nuances of the game.

**KNES 39A**    **Volleyball Level 1**     **1/2 Unit**
**KNES 39AX**     **1 Unit**
*(Formerly P E 19A and P E 19AX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Physical Education through the sport of volleyball. Includes: rules, equipment, facilities, safety, etiquette, basic fundamentals in beginning level volleyball with strategies for team offense and defense, and a brief historical examination of global contributions by the men and women who changed the game of volleyball. Students will develop passing, hitting, blocking, and serving techniques utilizing fundamental theories of physics. The skills portion of the course will encourage an understanding of how to adapt the game and conventional techniques to an individual's physical abilities. Students will understand and apply basic exercise physiology, nutrition, flexibility, and strength concepts to improve their physical condition in order to play at a more advanced level.

**KNES 39B**    **Volleyball Level 2**     **1/2 Unit**
**KNES 39BX**     **1 Unit**
*(Formerly P E 19B and P E 19BX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 39A or KNES 39AX, or consent of instructor.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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**     **1/2 Unit**
**KNES 39CX**     **1 Unit**
*(Formerly P E 19C and P E 19CX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 39B or KNES 39BX, or consent of instructor.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Physical Education through the sport of volleyball. Includes a global and historical examination of the sport, rules, equipment, facilities, etiquette, safety, and fundamentals of advanced volleyball. Students will develop their volleyball skills and improve upon team play strategies. Students will apply basic exercise physiology, nutrition, flexibility and strength concepts to improve their overall playing level.

**KNES 39DX**    **Volleyball Level 4**     **1 Unit**
*(Formerly P E 19T.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 39C or KNES 39CX, or consent of instructor.*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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**     **1/2 Unit**
**KNES 40AX**     **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 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*

*the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 40B**    **Flag Football 2**     **1/2 Unit**
**KNES 40BX**     **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 40A or KNES 40AX.*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Kinesiology through the game of flag football. This is designed to give students the opportunity to review and practice the intermediate skills relative to the game of flag football. An introduction to the tactics of flag football will be covered. Basic physiology, nutrition, strength, and flexibility concepts will be discussed.

**KNES 40C**    **Flag Football 3**     **1/2 Unit**
**KNES 40CX**     **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 40B or KNES 40BX.*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An introduction to the discipline of Kinesiology through the game of flag football. This is designed to give students the opportunity to review and practice the advanced skills relative to the game of flag football. An advanced examination of the tactics of flag football will be covered. Basic physiology, nutrition, strength, and flexibility concepts will be discussed.

**KNES 41A**    **Ultimate Frisbee 1**     **1/2 Unit**
**KNES 41AX**     **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 41B**    **Ultimate Frisbee 2**     **1/2 Unit**
**KNES 41BX**     **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Successful completion of KNES 41A, KNES 41AX or skills equivalent.*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An intermediate exploration into 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 a complete exploration into the laws of the game, equipment, fair play, flexibility, nutrition, and the nuances of the game.

**KNES 41C**    **Ultimate Frisbee 3**     **1/2 Unit**
**KNES 41CX**     **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: KNES 41B or KNES 41BX.*
*Advisory: EWRT 211 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
An advanced exploration into 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.

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

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**KNES 42C**      **High Intensity Motor Training**      **1/2 Unit**
**KNES 42CX**      **1 Unit**
*(Formerly P E 7C and P E 7CX respectively.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 45**      **Introduction to Kinesiology**      **5 Units**
*(Formerly P E 30.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
An introduction to the discipline of physical education/kinesiology. The student will study career options, required preparation and training for occupations in teaching, coaching, physical therapy, sports nutrition, sports medicine and other professions stemming from a degree in physical education/kinesiology. Includes an in-depth overview of human movement and performance, foundations and principles of physical education/kinesiology, and the importance of the sub-disciplines in kinesiology. Focus will also be placed on and give the student an understanding of cultural, age and gender differences. Title IX requirements relating to the profession will also be discussed.

**KNES 46**      **Care and Prevention of Athletic Injuries**      **4 Units**
*(Formerly P E 35.)*
*Prerequisite: BIOL 40A.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
This course covers treatment and preventative procedures in sports medicine. Emphasis will be placed on an anatomical basis for recognition and evaluation of sports-related injuries. Treatment focuses on immediate first aid, preventative techniques, and injury stress test and rehabilitation. Psychological, cultural, emotional, and social factors that contribute to and affect rehabilitation efforts will be discussed.

**KNES 47**      **Introduction to Women in Sports**      **5 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Five hours lecture (60 hours total per quarter).*
An introduction to the field of Kinesiology through women in sport. Students will gain an understanding of the journey of women in sport, through a chronological history, analysis and interpretation of people, events, and issues that affect women in sport, in past and present day society. Physiological, sociological, and psychological aspects of female athletes as related to sports, history, and education will be covered. Students will gain an understanding of the significant events of women in sport from the past to the present and how their significance will possibly determine the future of women in sports.

**KNES 48**      **Introduction to Coaching**      **5 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course provides an introduction and continuing education into the theories, techniques, strategies, and qualifications related to sport and athletic coaching. It includes 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 relation to administrative, medical, legal, and practical experiences.

**KNES 50A**      **Orientation to Lifetime Fitness**      **3 Units**
*(Formerly P E 70A.)*
*(See general education pages for the requirement this course meets.)*
*Corequisite: KNES 9A, 9AX, 9B, 9BX or 50AL.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 hours total per quarter).*
Introduction to fitness, wellness and lifestyle management. Students will examine current theories of health and fitness with emphasis on how wellness and personal fitness are affected by genetics, gender, and age. Each student will perform pre-assessment and post-assessment tests of their own cardiovascular capacity, muscular strength and endurance, flexibility, and body composition. Lifestyle changes will be emphasized and behavior change tools that promote healthy choices will be discussed. Instruction on proper exercise techniques will be demonstrated.

**KNES 50AL**      **Lifetime Wellness and Fitness**      **1 Unit**
                     **Center Laboratory**
*(Formerly P E 71.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: HLTH 51, KNES 50A or KNES 53 (all courses may be taken concurrently).*
*Three hours laboratory (36 hours total per quarter).*
A laboratory designed to improve student's cardio-respiratory fitness, muscular strength and endurance, flexibility and body composition. Strength and muscular endurance will be developed using Magnum weight equipment. Cardio-respiratory programs will be run on treadmills, cycles, stair steppers, and elliptical trainers.

**KNES 51A**      **Fitness and Dietary Wellness**      **3 Units**
*(Formerly P E 79.)*
*(See general education pages for the requirement this course meets.)*
*Corequisite: KNES 9A, 9AX, 9B, 9BX or 51AL.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 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 P E 79A.)*
*(See general education pages for the requirement this course meets.)*
*Corequisite: KNES 51A.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours laboratory (36 hours total per quarter).*
This is a laboratory course 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. The exercise programs will focus on improving body composition based on weight management techniques.

**KNES 52**      **Physical Stress Management**      **3 Units**
*(Formerly P E 53.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture (36 hours total per quarter).*
An introduction to the discipline of Kinesiology through the natural techniques that effectively relieve stress related physical problems. Each student will develop and implement a personal stress reduction program. Students will be exposed to information on how lifestyle, gender, age, personality and occupation effects stress and the ability to successfully cope with it.
*(This course is offered in online and face-to-face environments. Massage Therapy students must take this course in the face-to-face environment. Massage students will not be allowed to repeat this course to obtain a Massage Therapy Program Certificate unless the course was taken more than eight years previously.)*

**KNES 53**      **Health and Fitness**      **4 Units**
*(Formerly P E 51.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or 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**      **5 Units**
*(Formerly P E 72.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Five hours lecture (60 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**      **Introduction to Exercise Science**      **5 Units**
*(Formerly P E 85.)*
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Five hours lecture (60 hours total per quarter).*
An introduction to the discipline of Kinesiology through introductory concepts of exercise science. The knowledge base that defines exercise physiology is central to the discipline of kinesiology. Students will develop a basic understanding of how the physiological systems involved in physical activity respond to exercise, physical activity, and how these systems adapt to various modes of exercise training and environmental conditions. Basic concepts of physiology, biology, nutrition, and principles of exercise/fitness for students planning on majoring in Physical Education or Kinesiology and/or completing a certificate program in personal training, massage therapy, or coaching.

**KNES 77**      **Special Projects in Kinesiology**      **1/2 Unit**
**KNES 77X**      **1 Unit**
**KNES 77Y**      **1 1/2 Units**
*(Formerly P E 77, 77X, and 77Y respectively.)*
*Prerequisite: Consent of instructor and division dean.*
*Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).*
Individual research in Kinesiology or Massage Therapy. 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
Introduction to the historical and cultural background of the Korean language. Intensive reading and writing practice of the Korean alphabet, Hangul. Development of language skills orally and in writing for basic and simple information relating to high-frequency situations in familiar contexts, to further understand grammatical and syntactical structures.

**KORE 2**      **Elementary Korean (Second Quarter)**      **5 Units**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in KORE 2H.)*
*Prerequisite: KORE 1 (equivalent to one year of high school Korean) or equivalent.*
*Advisory: EWRT 211 and READ 211, or 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) -**      **5 Units**
                 **HONORS**
*(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 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 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) -**      **5 Units**
                 **HONORS**
*(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 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 79**      **Reading, Writing and Researching**      **1 Unit**
                 **Social Justice Issues**
*Corequisite: SOC 20.*
*One hour lecture (12 hours total per quarter).*
In-depth writing and research on issues of social justice.

**LART 250**      **Academic Reading and Writing**      **3 Units**
*Credit course - Does not apply to De Anza associate degree.*
*Prerequisite: A qualifying placement result.*
*Corequisite: EWRT 1A or EWRT 1AH.*
*Three hours lecture (36 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 the 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 the instructor.

**LRNA 96**      **Introduction to Individual and**      **2 Units**
                 **Group Peer Tutoring**
*Prerequisite: Must be selected to work as a De Anza tutor.*
*Two hours lecture (24 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
Introduction to the principles and practices of individual and group tutoring. Development of effective communication and leadership skills to facilitate collaborative, dynamic and productive learning.

**LRNA 97**      **Introduction to Peer Tutoring in**      **3 Units**
                 **Writing and Reading**
*Prerequisite: Must be selected to work as a De Anza tutor.*
*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 and reading, including strategies and approaches to help students from diverse linguistic backgrounds with different levels of college reading and writing skills. Students read about, observe, discuss, write about and practice the craft of tutoring writing and reading. 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.

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

# Learning Strategies
*(Formerly Guidance)*

**L S 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.*
This course explores optimal learning strategies and accommodative techniques for students with special learning needs. Students will evaluate and apply successful learning tools in areas such as time management, goal setting, memory, processing information, test-taking strategies, and learning styles.

**L S 207**      **Introductory Writing and Grammar Skills**      **4 Units**
*(Formerly GUID 207.)*
*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.*
This is a basic writing and editing skills course for students with specialized learning needs preparing for college-level writing activities. Students will engage in diverse writing formats including structured paragraphs on a variety of topics using compensatory written learning strategies. Students will also practice parts of speech, capitalization, punctuation, sentence structure, and paragraph development.

**L S 209**      **Arithmetic Skills and Strategies**      **4 Units**
*(Formerly GUID 209.)*
*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.*
This course is designed to improve skills in mathematics by addressing areas of difficulty common to students with disabilities in mathematics.

**L S 211**      **Algebra Skills I**      **4 Units**
*(Formerly GUID 211.)*
*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.*
This is a transitional course for students with special learning needs. It is designed to improve skills in mathematics by addressing areas of difficulty common to students with disabilities in mathematics. The course also includes alternative learning strategies for mastering algebraic concepts.

# Library

**LIB 1**      **Library Research Skills**      **1 Unit**
*Advisory: EWRT 200 and READ 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 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 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
The science of language; an 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 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 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 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 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 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 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.

**MAND 51**      **Introduction to Translation and Interpreting**      **4 1/2 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four and one-half hours lecture (54 hours total per quarter).*
This course will cover the historical origins, theories, techniques, and practices

of translating and interpreting. Students will focus on comprehension of source language texts and accurate expression of content and style in translations. Theoretical readings will be used to familiarize students with strategies, techniques, and challenges faced in the translation process.

**MAND 52    Mandarin Grammar and Composition    4 1/2 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four and one-half hours lecture (54 hours total per quarter).*
This course will develop students' reading and writing skills through the process of composition in Mandarin. It will also improve students' writing skills by applying the rules of grammar and orthography reviewed in class.

**MAND 53    Mandarin/English Linguistics    4 1/2 Units**
**                    Analysis**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four and one-half hours lecture (54 hours total per quarter).*
This course will provide the student with an analysis and description of some of the most relevant aspects of Mandarin/English grammar, emphasizing the implications of translation and interpreting.

**MAND 54    Sight Translation    4 1/2 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four and one-half hours lecture (54 hours total per quarter).*
This course will introduce students to the fundamental skill of sight translation. Students will learn how to comply with the legal equivalence requirements of this mode of interpretation. There will be an emphasis on reviewing the necessary reading comprehension skills, acquiring the ability to analyze text upon first reading, acquiring vocabulary research skills, expanding vocabulary and understanding the role of the interpreter. Students will practice paraphrasing, chunking, prediction, and expanding and condensing exercises to finally develop the skills necessary for performing sight translation of complex texts.

**MAND 55A    Consecutive Interpretation I    4 1/2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: MAND 54 or equivalent.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four and one-half hours lecture (54 hours total per quarter).*
This course will introduce students to consecutive legal interpretation. Students will learn how to comply with the legal equivalence requirements of consecutive interpretation. They will also be introduced to the proper usage of this mode of interpretation in various settings. There will be a focus on memory building skills as well as notetaking techniques. Students will begin to develop their own notetaking systems and symbols. Through guided exercises, students will continue to build vocabulary and learn how to deal with various factors encountered when using the consecutive mode of interpretation.

**MAND 55B    Consecutive Interpretation II    4 1/2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: MAND 55A or equivalent.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four and one-half hours lecture (54 hours total per quarter).*
This course builds on the skills acquired in Consecutive Interpretation I. Students will continue to enhance retention while developing personal Notetaking systems in more demanding situations with lengthier messages. There will be an emphasis on complying with the legal equivalent requirement and limiting omissions. Students will learn how to deal with challenges to interpretation and make corrections on the record. Students will acquire terminology related to complex criminal proceedings, administrative hearings, and varied medical settings.

**MAND 56A    Simultaneous Interpretation I    4 1/2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: MAND 54A or equivalent.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four and one-half hours lecture (54 hours total per quarter).*
This course will introduce students to simultaneous legal interpretation. Students will learn how to comply with the legal equivalence requirements of simultaneous interpretation. There will be an emphasis on reviewing; the history of simultaneous interpretation, the role of the interpreter, relevant settings and research skills. Students will practice paraphrasing, chunking and shadowing exercises to increase vocabulary and create a strong foundation to begin acquiring simultaneous interpreting skills up to 125 words per minute.

**MAND 56B    Simultaneous Interpretation II    4 1/2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: MAND 56A or equivalent.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four and one-half hours lecture (54 hours total per quarter).*
This course will continue to build students' simultaneous interpretation skills.

Students will begin to interpret more complex legal proceedings at faster speeds. Students will be introduced to the testimony of expert witnesses, legal motions, jury instructions, and other complex materials. Students will also acquire the skills necessary to build glossaries for complex proceedings and in the process expand vocabulary to include terminology related to drugs, violence, medical, weapons, DNA and other specialized topics. At the conclusion of the course, students will be able to interpret proceedings at speeds of 145+ wpm. This course will help students to review and practice Certification Exams.

# 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 32, 43 or 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 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 32, 43 or 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 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 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 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
Infinite series, lines and surfaces in three dimensions, vectors in two and three dimensions, parametric equations of curves. Derivatives and integrals of vector functions.

**MATH 1CH    Calculus - HONORS    5 Units**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in MATH 1C.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Prerequisite: MATH 1B or MATH 1BH (with a grade of C or better) or equivalent.*
*Advisory: EWRT 211 and READ 211, or 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
Partial derivatives, multiple integrals, vector calculus.

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**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 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 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 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 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 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** **Introductory Statistics** **5 Units**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in MATH 10H.)*
*Prerequisite: Intermediate Algebra (MATH 109, MATH 114 or MATH 130) or equivalent.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course is an 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. This Statistics course is a required lower-division course for students majoring or minoring in many disciplines such as data science, nursing, business, and others.

**MATH 10H** **Introductory Statistics - 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: Intermediate Algebra (MATH 109, MATH 114 or MATH 130) or equivalent.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course is an 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 10 and therefore Math 10H is a required lower-division course for students majoring or minoring in many disciplines such as data science, nursing, business, and others. Because this is 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: Intermediate Algebra (MATH 109, MATH 114 or MATH 130) or equivalent.*
*Advisory: EWRT 211 and READ 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 11H** **Finite Mathematics - HONORS** **5 Units**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in MATH 11.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Prerequisite: Intermediate Algebra (MATH 109, MATH 114 or MATH 130) or equivalent.*
*Advisory: EWRT 211 and READ 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. Because this is an honors course the students will be expected to complete extra assignments to gain deeper insight in Finite Mathematics.

**MATH 12** **Introductory Calculus for Business and Social Science** **5 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: MATH 11, 11H, 31, 31B, 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 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 32, 43 or 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 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.

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

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**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 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 31        Precalculus I                        5 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Intermediate Algebra (MATH 109, MATH 114 or MATH 130) or equivalent.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course covers polynomial, rational, exponential and logarithmic functions, graphs, solving equations, conic sections, systems of equations and inequalities, sequences and series.

**MATH 31A        Precalculus I (Part 1)            2 1/2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Intermediate Algebra (MATH 109, MATH 114 or MATH 130) or equivalent.*
*Corequisite: MATH 231A.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two and one-half hours lecture (30 hours total per quarter).*
This course covers linear, quadratic, power, absolute value, piecewise functions, graphs, solving equations and inequalities, solving systems of equations and inequalities.

**MATH 31B        Precalculus I (Part 2)            2 1/2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: MATH 31A (with a grade of C or better).*
*Corequisite: MATH 231B.*
*Two and one-half hours lecture (30 hours total per quarter).*
Polynomial, rational, exponential and logarithmic functions, graphs, solving equations, conic sections.

**MATH 32        Precalculus II                        5 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: MATH 31 or MATH 31B (with a grade of C or better); or a satisfactory score on college placement.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
Preparation for calculus: extending the elementary functions of first quarter precalculus to include the theory of periodic functions; composition of trigonometric functions with other elementary functions; polar co-ordinates; further exploration of the complex plane; introduction to the algebra of vectors.

**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: Intermediate Algebra (MATH 114, MATH 109, MATH 130) or equivalent.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course covers polynomial, rational, exponential and logarithmic functions, graphs, solving equations, conic sections.

**MATH 41H        Precalculus I: Theory of Functions -    5 Units
                HONORS**
*(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: Intermediate Algebra (MATH 114, MATH 109, MATH 130) or equivalent.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course covers polynomial, rational, exponential and logarithmic functions, graphs, solving equations, conic sections. Because it is an honors course, students will be expected to complete extra assignments to gain a deeper insight into 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 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 -    5 Units
                HONORS**
*(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 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 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 -        5 Units
                HONORS**
*(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 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. 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        5 Units
                Society: A Liberal Arts Math Class**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Intermediate Algebra (MATH 109, MATH 114 or MATH 130) or equivalent.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course is a survey of selected topics from contemporary mathematics, including problem-solving techniques and connections between mathematics and culture. It 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 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.

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| **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.

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| **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.

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| **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.

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| **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 109       Intermediate Algebra for Statistics       5 Units**
*Requisite/Advisory: None.*
*Five hours lecture (60 hours total per quarter).*
Applications of linear and exponential functions. Emphasis on the development of models of real world applications and interpretation of their characteristics. Introduction to discrete probability, and data analysis, making use of graphical and numerical techniques.

**MATH 114       College Math Preparation Level 3:       5 Units**
                **Intermediate Algebra**
*Prerequisite: MATH 212 or equivalent placement.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
Application of exponential, logarithmic, and rational functions. Emphasis on the development of models of real world applications and interpretation of their characteristics.

**MATH 130       Intermediate Algebra for Precalculus       5 Units**
*Requisite/Advisory: None.*
*Five hours lecture (60 hours total per quarter).*
Application of linear functions, quadratic functions, exponential functions, logarithmic functions and linear systems. Emphasis on the development of models of real-world applications and interpretation of their characteristics.

**MATH 210       College Math Preparation Level 1:       5 Units**
                **Pre-Algebra**
*Credit course - Does not apply to De Anza associate degree.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
Use of basic arithmetic in application problems, estimation, the real number system, variables and linear equations, graphs of linear equations and the Cartesian coordinate system, the concept of function.

**MATH 210X       Support for Statistics       2 1/2 Units**
*Credit course - Does not apply to De Anza associate degree.*
*Corequisite: MATH 10 or MATH 10H.*
*Two and one-half hours lecture (30 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
A review of the core prerequisite skills, competencies, and concepts needed when studying probability and statistics. Intended for students who are concurrently enrolled in Statistics.

**MATH 211X       Algebra Support for Finite       2 1/2 Units**
                **Mathematics**
*Credit course - Does not apply to De Anza associate degree.*
*Corequisite: MATH 11 or MATH 11H.*
*Two and one-half hours lecture (30 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
A review of the core prerequisite skills, competencies, and concepts needed when studying linear functions, exponential and logarithmic functions, and probability and optimization models. Intended for students who are concurrently enrolled in Finite Mathematics

**MATH 212       College Math Preparation Level 2:       5 Units**
                **Beginning Algebra**
*Credit course - Does not apply to De Anza associate degree.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
Application of linear functions, quadratic functions and linear systems to problems. Emphasis on the development of models of real-world applications and interpretation of their characteristics.

**MATH 217       Integrated Statistics 1       10 Units**
*Credit course - Does not apply to De Anza associate degree.*
*Prerequisite: Qualifying score on the Math Placement Test within last calendar year; or MATH 210 or equivalent with a grade of C or better.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Ten hours lecture (120 hours total per quarter).*
This is the first quarter of two in the Statway sequence comprised of MATH 217 and MATH 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.

**MATH 231       Algebra Support for Precalculus I       2 1/2 Units**
*Corequisite: MATH 31, 41, or 41H.*
*Two and one-half hours lecture (30 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
A review of the core prerequisite skills, competencies, and concepts needed in when studying polynomial, rational, exponential and logarithmic functions. Intended for majors in business, science, technology, engineering, and mathematics who are concurrently enrolled in Precalculus I.

**MATH 231A       Algebra Support for Precalculus I       2 1/2 Units**
                **(Part 1)**
*Corequisite: MATH 31A.*
*Two and one-half hours lecture (30 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
A review of the core prerequisite skills, competencies, and concepts needed when studying polynomial and rational functions. Intended for majors in business, science, technology, engineering, and mathematics who are concurrently enrolled in Precalculus I.

**MATH 231B       Algebra Support for Precalculus I       2 1/2 Units**
                **(Part 2)**
*Corequisite: MATH 31B.*
*Two and one-half hours lecture (30 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
A review of the core prerequisite skills, competencies, and concepts needed when studying exponential and logarithmic functions. Intended for majors in business, science, technology, engineering, and mathematics who are concurrently enrolled in Precalculus I.

**MATH 232       Algebra Support for Precalculus II       2 1/2 Units**
*Corequisite: MATH 32, 42, or 42H.*
*Two and one-half hours lecture (30 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
A review of the core prerequisite skills, competencies, and concepts needed in studying the theory of trigonometric functions and their applications. Intended for majors in business, science, technology, engineering, and mathematics who are concurrently enrolled in Precalculus II.

**MATH 241       Academic Excellence in Precalculus I       1 Unit**
*Credit course - Does not apply to De Anza associate degree.*
*Corequisite: MATH 41 or MATH 41H.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours laboratory (36 hours total per quarter).*

This course allows students to critically think and provides skills reinforcement in a precalculus setting, which includes cooperative learning/study techniques; concept development related to polynomial, rational, exponential and logarithmic functions, and their graphs; and the use of technology.

**MATH 242**     **Academic Excellence in Precalculus II**     **1 Unit**
*Credit course - Does not apply to De Anza associate degree.*
*Corequisite: MATH 42 or MATH 42H.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours laboratory (36 hours total per quarter).*
This course allows students to critically think and provides skills reinforcement in a trigonometry setting, which includes cooperative learning/study techniques, concept development, and the use of technology.

**MATH 243**     **Academic Excellence in Precalculus III**     **1 Unit**
*Credit course - Does not apply to De Anza associate degree.*
*Corequisite: MATH 43 or MATH 43H.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours laboratory (36 hours total per quarter).*
This course allows students to critically think and provides skills reinforcement in a precalculus setting, which includes cooperative learning/study techniques; concept development related to conic sections, parametric and polar equations, systems of equations and inequalities; and the use of technology.

# Meteorology

**MET 10**     **Weather and Climate Processes**     **5 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: MATH 210 or equivalent; EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
Introduction to the principles of the sciences of meteorology and climatology including: history of the sciences; origin, evolution and structure of the atmosphere; major atmospheric variables that determine weather; global and local wind circulations; air masses and frontal systems; birth and development of extra tropical and tropical cyclones and associated severe weather phenomena; weather map analysis and interpretation; objective techniques used by meteorologists to forecast weather; air pollution; atmospheric optics, global climate and the processes that produce climate change including "global warming."

**MET 10L**     **Meteorology Laboratory**     **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: MET 10 (may be taken concurrently).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 210 or equivalent.*
*Three hours laboratory (36 hours total per quarter).*
Introductory weather lab in which students work with observational data, graphics products, charts and instruments used by synoptic meteorologists to forecast weather. Lab sessions will include current weather products downloaded from the American Meteorological Society's "Online Weather Studies" homepage which has been specifically designed for this course and from De Anza College's automated rooftop weather station. Students will practice the analysis and decision-making skills employed by meteorologists to diagnose air patterns, understand air motions and predict future atmospheric conditions.

**MET 12**     **Introduction to Climate Change**     **5 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 210 or equivalent.*
*Five hours lecture (60 hours total per quarter).*
This course is an introduction to the study of global climate change, including both natural and human-induced causes. Topics include interactions among Earth's various climate subsystems--the hydrosphere, lithosphere, atmosphere, and biosphere--and how exchanges of energy and matter between them govern Earth's climate. Students will also examine the methods used by climate scientists to construct past climates and to predict future climate changes. The impact that humans have had on the climate system and potential solutions to climate change will be woven throughout.

**MET 20L**     **Climate Studies Laboratory**     **1 Unit**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: MET 10 (may be taken concurrently).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; MATH 210 or equivalent.*
*Three hours laboratory (36 hours total per quarter).*
Introductory climatology lab developed in collaboration with the American Meteorological Society which places students in a dynamic learning environment where they investigate Earth's climate system using real-world data used by professional climatologists to study and forecast future changes in Earth's climate system. Lab sessions will include current computer graphics products downloaded from the American Meteorological Society's "Online Climate Studies" homepage which has been specifically designed for this course. Students will practice the analytical skills used by climatologists in assessing the world's climate and will examine the factors that produce critical changes in climate such as "global warming." While focusing on science, students will address many of the social and societal impacts of impending climate change.

# Music

**MUSI 1A**     **Music Appreciation: Music in Western Cultures**     **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
Introduction to the discipline of music; methods of understanding music available in modern culture; listening techniques; use of fundamental concepts including form, style, musical media, and textures; acquaintance with and comparison of musical examples from various eras and cultures; roles of music in society.

**MUSI 1B**     **Music Appreciation: Jazz Styles**     **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
Introduction to the discipline of music through American Jazz; from its multicultural origins to the present; listening skills and use of fundamental musical elements for distinguished jazz styles; social issues, noted performers, and technological advancements found in jazz.

**MUSI 1C**     **Music Appreciation: World Music in America**     **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
An introduction to music through world music and its influence on current musical trends in the United States. Music of diverse cultures which will include Native Americans, Asia/Pacific Rim, India, Africa, South and Central America, Mexico, and the Caribbean are presented in conjunction with American and European traditions; listening skills for distinguishing musical cultures, instrumentations and artists.

**MUSI 1D**     **Music Appreciation: Rock - From Roots to Rap**     **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
An introduction to music through rock music, tracing its beginnings in the early 1950s to the present. Various rock styles will be related to the historical trends and events of the time period being studied; listening techniques; use of fundamental concepts including form, style, musical media, and textures; acquaintance with and comparison of musical examples from various styles.

**MUSI 3A**     **Comprehensive Musicianship (First Quarter)**     **4 Units**
*Requisite/Advisory: None.*
*Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).*
This course covers basic knowledge such as notation, key signatures, scales, intervals, and rudimentary harmony as well as skill development including sight-singing, rhythmic training, ear training, and keyboard work.

**MUSI 3B**     **Comprehensive Musicianship (Second Quarter)**     **4 Units**
*Prerequisite: MUSI 3A or by audition.*
*Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).*
This course covers principles, literacy, and parameters of music including writing elementary four-part harmony, sight-singing, rhythmic training, ear training, and keyboard work for the student with some basic skills and education in standard notation.

**MUSI 3C**     **Comprehensive Musicianship (Third Quarter)**     **4 Units**
*Prerequisite: MUSI 3B or by audition.*
*Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).*
This course covers principles, literacy, and parameters of music including writing, sight singing, rhythmic training, ear training, keyboard work, beginning analysis, and simple melody composition.

**MUSI 4A**     **Comprehensive Musicianship II (First Quarter)**     **4 Units**
*Prerequisite: MUSI 3C or by audition.*
*Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).*
This course covers 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.

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

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**MUSI 4B**     **Comprehensive Musicianship II**     **4 Units**
                       **(Second Quarter)**
*Prerequisite: MUSI 4A or by audition.*
*Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).*
This course covers principles, literacy, and parameters of music including writing musical scores, comprehensive and aural analysis, sight-singing, rhythmic training, ear training, and keyboard work, exploring the chromatic practice and the limits of the tonal system including a review of diatonic practice.

**MUSI 4C**     **Comprehensive Musicianship II**     **4 Units**
                       **(Third Quarter)**
*Prerequisite: MUSI 4B or by audition.*
*Three and one-half hours lecture, one and one-half hours laboratory (60 hours total per quarter).*
This course covers principles, literacy, and parameters of music including writing, comprehensive and aural analysis, sight-singing, rhythmic training, ear training, and keyboard work exploring the post-tonal practice and the influence of non-notated, experimentally notated, and non-Western music on an emerging worldwide art music culture.

**MUSI 8**     **Intermediate Electronic Music**     **3 Units**
*Prerequisite: MUSI 51.*
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture, three hours laboratory (60 hours total per quarter).*
This course covers 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; and roles of electronic music technology in modern music. Some prior music experience and/or concurrent enrollment in MUSI 10A or MUSI 12A is recommended, but not required.

**MUSI 9A**     **Jazz Piano I**     **1 1/2 Units**
*(Formerly MUSI 9.)*
*Prerequisite: Ability to play a keyboard instrument and read music.*
*Advisory: EWRT 200 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Development of the ability to play basic jazz piano arrangements from lead sheets in a variety of jazz styles using knowledge of jazz harmony, jazz piano techniques, and improvisational skills. Improvisational skill is developed through the application of provided scale choices and techniques for melodic development.

**MUSI 9B**     **Jazz Piano II**     **1 1/2 Units**
*(Formerly MUSI 69B.)*
*Prerequisite: MUSI 9A or by instructor consent.*
*Advisory: EWRT 200 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Development of the ability to play intermediate jazz piano arrangements from lead sheets in a variety of jazz styles and settings using knowledge of jazz theory, jazz piano techniques, and improvisational skills. Improvisational skill on the piano is developed through the application of scales determined through the use of jazz theory and harmonic analysis, and the application of techniques for melodic development.

**MUSI 9C**     **Jazz Piano III**     **1 1/2 Units**
*(Formerly MUSI 69C.)*
*Prerequisite: MUSI 9B or by instructor consent.*
*Advisory: EWRT 200 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Development of the ability to play advanced jazz piano arrangements from lead sheets in a variety of jazz styles and settings using knowledge of jazz harmony, jazz piano techniques, and improvisational skills. Improvisational skill on the piano is developed through the application of basic to advanced scales determined through the use of jazz theory and harmonic analysis, and the application of idiomatic phrases.

**MUSI 10A**     **Music Fundamentals**     **3 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Three hours lecture (36 hours total per quarter).*
This is 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. This course is open to all students and may be appropriate for students with low scores on the MUSI 3A diagnostic test. Music Fundamentals students with no previous musical experience may benefit from concurrent enrollment in a beginning instrumental or vocal performance class.

**MUSI 12A**     **Class Piano I**     **1 1/2 Units**
*Advisory: MUSI 10A.*
*One hour lecture, two hours laboratory (36 hours total per quarter).*
*(This course is included in the Piano Class Applied Performance Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Beginning piano for students with no previous instruction, those who need knowledge of piano for a teaching credential, music majors, and the general student.

**MUSI 12B**     **Class Piano II**     **1 1/2 Units**
*Prerequisite: MUSI 12A or consent of instructor.*
*One hour lecture, two hours laboratory (36 hours total per quarter).*
*(This course is included in the Piano Class Applied Performance Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Basic piano for beginning students who read treble and bass clef and understand music notation.

**MUSI 12C**     **Class Piano III**     **1 1/2 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Piano performance with emphasis on interpretation, musical form and harmony.

**MUSI 13A**     **Beginning Singing I**     **1 1/2 Units**
*Advisory: EWRT 200 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 1/2 Units**
*Prerequisite: MUSI 13A or equivalent.*
*Advisory: EWRT 200 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 1/2 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 1/2 Units**
*Advisory: EWRT 200 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This course will provide students with beginning instruction for playing the classical, nylon-stringed guitar, assuming there is no prior musical experience. It 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 1/2 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*

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

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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 1/2 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 1/2 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 ESL 261, 262 and 263.*
*One hour lecture, three hours laboratory (48 hours total per quarter).*
*(Satisfies the associate degree music ensemble requirement. Any combination of MUSI 15A and MUSI 15B may be taken up to six times for credit.)*
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 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 1/2 Units**
*(Formerly MUSI 56A.)*
*Advisory: EWRT 200 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 1/2 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
This course is 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 1/2 Units**
*(Formerly MUSI 78A.)*
*Prerequisite: MUSI 12C or equivalent skill level or admission by audition.*
*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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*

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 1/2 Units**
*(Formerly MUSI 78B.)*
*Prerequisite: MUSI 18A or equivalent skill level or admission by audition.*
*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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Continued study of the traditional classical piano literature from the Baroque era to the present day. Focus will be on the differences in interpretation and style for each of the time periods as well as the development of advanced piano technique specifically required for mastery of compositions from those time periods.

**MUSI 18C    Intermediate Piano III    1 1/2 Units**
*(Formerly MUSI 78C.)*
*Prerequisite: MUSI 18B or equivalent skill level or admission by audition.*
*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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
A study the traditional classical piano literature from the Baroque to the present day. Focus will be on the differences in interpretation and style for each of the time periods as well as development of advanced intermediate piano technique specifically required for mastery of compositions from those time periods.

**MUSI 20    De Anza Chorale    2 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*One hour lecture, three hours laboratory (48 hours total per quarter).*
*(Satisfies the associate degree music ensemble requirement. May be taken up to six times for credit.)*
This course includes study and performance of traditional, classical and contemporary choral literature, as well as cultivation of performance skills in accompanied music (including piano, orchestra, and band). Student attendance at all scheduled performances is required. Enrollment is open to all students. An introductory placement hearing will assess pitch-matching ability and determine vocal range and appropriate choral part.

**MUSI 21    Vintage Singers    2 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; concurrent enrollment in MUSI 10A, 10B, 3A, 3B, 3C or 12A is recommended.*
*One hour lecture, three hours laboratory (48 hours total per quarter).*
*(Satisfies the associate degree music ensemble requirement. May be taken up to six times for credit.)*
Study and performance of specialized choral styles from early to modern in an ensemble of limited size. Enrollment subject to audition. Choral experience, previous vocal training, and some music reading ability is necessary. Attendance at all scheduled performances is required.

**MUSI 22    Early Music Study and Performance    2 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; concurrent enrollment in MUSI 10A, 10B, 3A, 3B, 3C or 12A is recommended.*
*One hour lecture, three hours laboratory (48 hours total per quarter).*
*(Satisfies the associate degree music ensemble requirement. May be taken up to six times for credit.)*
Study and performance of instrumental and vocal music from the Medieval and Renaissance periods. Cultivation of performance skills aimed at emulating the spirit and vitality of those periods. Attendance at all scheduled performances is required. Enrollment is open to all students. An introductory audition will determine placement in the appropriate section of singers.

**MUSI 25    Applied Music    1 Unit**
*Prerequisite: Placement by audition; MUSI 3A, 3B, 3C, 4A, 4B or 4C (may be taken concurrently) and MUSI 15A, 15B, 20, 21, 22, 31, 34, 42 or 45 (may be taken concurrently).*
*Three hours laboratory (36 hours total per quarter).*
*(Satisfies the associate degree Music requirement. May be taken up to six times for credit.)*
An individualized study of the appropriate techniques and repertoire for the specific instrument or voice being studied. Emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. The laboratory will include activities such as individual one on one music instruction and group meetings, as well as faculty supervised on-campus practice. This course requires technical command of the instrument and basic knowledge of musicianship.

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**MUSI 31     Chamber Orchestra     2 Units**
*Prerequisite: Enrollment subject to audition; ability to play an orchestral instrument and read music at sight.*
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*One hour lecture, three hours laboratory (48 hours total per quarter).*
*(Satisfies the associate degree music ensemble requirement. May be taken up to six times for credit.)*
Study, preparation and performance of orchestral literature for chamber orchestra with an emphasis on both early and late 18th century performance practice and then applying that practice, rhetoric and sensibility into music of the 19th, 20th and 21st centuries.

**MUSI 34     Jazz Ensemble     2 Units**
*Prerequisite: Audition based on the ability to play a traditional big band instrument and read music.*
*One hour lecture, three hours laboratory (48 hours total per quarter).*
*(Satisfies the associate degree music ensemble requirement. May be taken up to six times for credit.)*
Sight-reading, rehearsal, performance and recording of diverse styles of music composed and arranged for standard jazz ensemble. Emphasis on improvising within the ensemble structure is a goal for each individual.

**MUSI 35     Mariachi Ensemble     2 Units**
*Prerequisite: Ability to play a mariachi or related instrument. Enrollment subject to audition.*
*Two hours lecture, three hours laboratory (48 hours total per quarter).*
*(Satisfies the associate degree music ensemble requirement. May be taken up to six times for credit.)*
This is an intermediate-level ensemble course focusing on mariachi literature. Students will rehearse and perform arrangements for mariachi. This course emphasizes authentic mariachi style, excellence in personal and group performance, repertoire building, sight-reading music, playing and transposing songs by ear, memorization techniques, working and performing in a group, stage presence and other aspects of performance, and overall professionalism.

**MUSI 41V     Rehearsal and Performance     1 1/2 Units**
**MUSI 41W     2 Units**
*Prerequisite: Placement by audition.*
*One hour lecture, one and one-half hours laboratory for the one and one-half unit course (30 hours total per quarter); one hour lecture, three hours laboratory for the two unit course (48 hours total per quarter).*
Supervised participation in the various aspects of music rehearsal and/or performance.

**MUSI 42     Concert Band     2 Units**
*Prerequisite: Placement by audition based on the ability to play a band instrument and read music at sight.*
*One hour lecture, three hours laboratory (48 hours total per quarter).*
*(Satisfies the associate degree music ensemble requirement. May be taken up to six times for credit.)*
Rehearsal, sight-reading, performance, and recording of wind ensemble literature in a variety of styles and time-periods. Attendance at all scheduled performances is required.

**MUSI 44A     Composition and Arranging - Level I     1 1/2 Units**
*(Formerly MUSI 64A.)*
*Prerequisite: MUSI 3A or MUSI 3B.*
*One hour lecture, two hours laboratory (36 hours total per quarter).*
The art and technique of writing and arranging music. Solving basic compositional problems, writing melodies and simple harmonies, inventing direct manipulation, variations, and motivic developments of different types of pitch sets, creating logical patterns of rhythms, arranging material for different instrumentation, extending and condensing material, creation of original compositions, reading/sight singing of student exercises and original compositions, and analysis of existing published music are all involved.

**MUSI 45     Jazz Combos     2 Units**
*Prerequisite: Placement by audition based on the ability to play an instrument and read music.*
*One hour lecture, three hours laboratory (48 hours total per quarter).*
*(Satisfies the associate degree music ensemble requirement. May be taken up to six times for credit.)*
Preparation and performance of music for jazz combo. Ensemble and improvisational performance are emphasized in addition to playing in all jazz rhythmic styles. Student compositions and arrangements are encouraged. Participation at all scheduled performances is required.

**MUSI 48A     Jazz Improvisation I     1 1/2 Units**
*Prerequisite: Ability to play an instrument and read music.*
*Advisory: EWRT 200 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*

Development of improvisational skill in the jazz idiom. Analysis of scales, chords, and forms as applicable to improvisational performance of basic standard jazz songs. Ear training and transcribing solos is included. Participation in final recital is required.

**MUSI 48B     Jazz Improvisation II     1 1/2 Units**
*(Formerly MUSI 68B.)*
*Prerequisite: MUSI 48A or by instructor consent.*
*Advisory: EWRT 200 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Further development of improvisational skill in the jazz idiom. Higher level of difficulty in analysis of scales, chords, and forms applicable to improvisational performance of intermediate level jazz songs. Ear training and transcribing solos included. Participation in a final recital is required.

**MUSI 48C     Jazz Improvisation III     1 1/2 Units**
*(Formerly MUSI 68C.)*
*Prerequisite: MUSI 48B or by instructor consent.*
*Advisory: EWRT 200 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 ESL 261, 262 and 263.*
*Two hours lecture, three hours laboratory (60 hours total per quarter).*
This course is an 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. The course also includes basic studio techniques; an introduction to Musical Instrument Digital Interface (MIDI); an introduction to basic historical developments in electronic music; and the 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 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 1/2 Units**
*Advisory: EWRT 200 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 1/2 Units**
*Prerequisite: MUSI 58A or equivalent level.*
*Advisory: EWRT 200 and READ 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 the rules on "Repeating Courses" in the College Policies section of the catalog.)*
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 Career and Curriculum Certificates and Degrees located elsewhere in this catalog.

**Registered Nursing Program**
**LVN Transition to RN Nursing Program**
Applications for the licensure programs are available after successfully completing the following: Nursing 50 (not required for LVNs), 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 the legal scope of practice within the licensed nursing discipline. The programs promote success in the ability to practice nursing effectively within a professional team.

See www.deanza.edu/nursing for specific policies regarding application and admission. The majority of courses are scheduled in the daytime. Generally, the nursing programs are not scheduled during the summer session. Costs of uniforms, books, malpractice insurance and miscellaneous supplies are estimated at $6500 for the program. In addition, each student is responsible for his/her own transportation to the clinical agencies.

**Registered Nursing Program**
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. Generally, the RN Program is not scheduled in the summer session. The majority of courses are scheduled in the daytime. Once admitted, the program is six quarters in length (not including prerequisites).

**LVN Transition to RN Nursing Program**
The LVN Transition to RN graduate is eligible to take the California State Board Examination for licensing (NCLEX - RN). 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. Once admitted, the program is at least three quarters in length (not including prerequisites). Current California LVN license and IV certification are required.

**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 ESL 261, 262 and 263.*
*Two hours lecture (24 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
This course provides an introduction to professional nursing with emphasis on profession nursing practice and education, and is required for entry into the De Anza College Registered Nursing Program. It is not required for LVN to RN Transition Program or refresher programs for registered nurses.

**NURS 77          Special Projects in Nursing          1/2 Unit**
**NURS 77X          1 Unit**
**NURS 77Y          2 Units**
**NURS 77Z          3 Units**
*Prerequisite: Consent of instructor and division dean. Open to students registered in the Nursing program at De Anza College.*
*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 91A          Health Assessment          2 Units**
*Prerequisite: Admission into the De Anza College Nursing Program.*
*Corequisite: NURS 91AL.*
*Two hours lecture (24 hours total per quarter).*
This introductory course focuses on health assessment as an integral part of the nursing process. In addition, students will receive an introduction and additional orientation to the De Anza College Nursing Program. The emphasis is on developing knowledge and skills to conduct basic and comprehensive health assessments and learning to use assessment data to plan, implement, and evaluate nursing care. Both NURS 91A and NURS 91AL must be taken and passed concurrently within the same quarter. Failure of either component requires both courses to be retaken.

**NURS 91AL          Health Assessment Lab          2 1/2 Units**
*Prerequisite: Admission into the De Anza College Nursing Program.*
*Corequisite: NURS 91A.*
*Seven and one-half hours laboratory (90 hours total per quarter).*
The focus of this course is the application of concepts learned in the theory class. Students will practice conducting health assessments, analyzing trends of data, and planning care based on common assessment findings. Therapeutic communication and interviewing skills will be developed thus increasing comfort in conversing with patients as well as improving the efficacy of data collection.

Both NURS 91AL and NURS 91A must be taken and passed concurrently within the same quarter. Failure of either component requires both courses to be retaken.

**NURS 91B          Fundamentals of Nursing/Sub-Acute          2 Units**
*Prerequisite: NURS 91A and NURS 91AL.*
*Corequisite: NURS 91BL.*
*Two hours lecture (24 hours total per quarter).*
This course explores fundamental nursing concepts and common chronic health challenges affecting aging adults. Students will begin to integrate the findings of health assessment with their knowledge of pathophysiology, pharmacology, and fundamentals of nursing in order to develop knowledge and skills required for the management of nursing care of patients requiring rehabilitative and/or long-term nursing care. Both NURS 91B and NURS 91BL must be taken and passed concurrently within the same quarter. Failure of either component requires both courses to be retaken.

**NURS 91BL          Fundamentals of Nursing/Sub-Acute          2 Units**
                    **Clinical**
*Prerequisite: NURS 91A and NURS 91AL.*
*Corequisite: NURS 91B.*
*Six and one-half hours laboratory (78 hours total per quarter).*
The focus of this course is on the application of concepts learned in the theory class for the management of nursing care of clients requiring rehabilitative and/or long-term nursing care. Students will use the nursing process, research, problem-solving and clinical judgment skills to facilitate culturally congruent care for patients in the sub-acute clinical setting. The learning experience will be enhanced with clinical simulation and observation activities. Both NURS 91BL and NURS 91B must be taken and passed concurrently within the same quarter. Failure of either component requires both courses to be retaken.

**NURS 91P          Pharmacology I          1 1/2 Units**
*(Formerly NURS 81P.)*
*(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).*
This is an introductory course that focuses on the basic pharmacological principles and application of pharmacologic principles to chronically ill adult patients. Concepts of pathophysiology will serve as a basis of building an understanding of pharmacokinetics. Legal and ethical issues and safety principles will be stressed as an integral part of nursing practice. The nurses' scope of practice, critical thinking and problem solving in medication administration processes will be examined.

**NURS 92          Medical-Surgical Nursing          4 Units**
*(Formerly NURS 82.)*
*Prerequisite: NURS 91B, 91BL, and 91P.*
*Corequisite: NURS 92L.*
*Four hours lecture (48 hours total per quarter).*
This course builds on prior learning experiences to developing knowledge and skills used in management of nursing care of patients experiencing chronic and acute health care stressors. It integrates the knowledge of pathophysiology, diagnostics, pharmacology, communication concepts and therapeutic interventions in order to facilitate culturally congruent nursing care for patients with fluid and electrolyte imbalances, pre and post-surgical acute care needs, as well as a variety of other disease processes. Students will become increasingly competent in the application of nursing process, research, problem-solving and use of clinical judgment within the framework of safe patient-centered, evidence-based care. Both NURS 92 and NURS 92L must be taken and passed concurrently within the same quarter (failure of either component requires both courses to be retaken).

**NURS 92L          Medical-Surgical Nursing Clinical          4 1/2 Units**
*(Formerly NURS 82L.)*
*Prerequisite: NURS 91B, 91BL, and 91P.*
*Corequisite: NURS 92.*
*Fourteen hours laboratory (168 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
The focus of this course is on the application of concepts learned in the theory class to the management of nursing care of clients experiencing chronic and acute health stressors. Students will use nursing process, research, problem-solving and critical thinking skills to facilitate culturally congruent care in acute medical-surgical care settings within the framework of safe patient-centered, evidence-based care. The students' learning experience will be enhanced with clinical simulations and observation activities. Both NURS 92L and NURS 92 must be taken and passed concurrently within the same quarter (failure of either component requires both courses to be retaken).

**NURS 92P          Pharmacology II          1 1/2 Units**
*(Formerly NURS 82P.)*
*Prerequisite: NURS 91P.*
*One and one-half hours lecture (18 hours total per quarter).*
This course focuses on the application of pharmacological principles to chronic and/or medical-surgical adult patients. Concepts of pathophysiology will serve as a basis for building an understanding of pharmacokinetics. Legal and ethical issues and safety principles will be stressed as an integral part of nursing practice. The nurses' scope of practice, critical thinking and problem-solving in the medication administration process will be examined.

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

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**NURS 93**     **Reproductive Health Nursing**     **2 Units**
*(Formerly NURS 83.)*
*Prerequisite: NURS 92, 92L and 92P.*
*Corequisite: NURS 93L.*
*Two hours lecture (24 hours total per quarter).*
This course builds upon prior learning experiences to develop knowledge and skills used in management of nursing care of patients during pregnancy, birth, and postpartum, as well as general management of reproductive health. The course integrates the knowledge of pathophysiology, diagnostics, pharmacology, communication concepts, and therapeutic interventions in order to facilitate culturally congruent nursing care for patients seeking reproductive health services. Students will become increasingly competent in the application of nursing process, research, problem-solving and use of clinical judgment within the framework of safe patient-centered, evidence-based care. Both NURS 93 and NURS 93L must be taken and passed concurrently within the same quarter (failure of either component requires both courses to be retaken).

**NURS 93A**     **Pediatric Nursing**     **2 Units**
*(Formerly NURS 83A.)*
*Prerequisite: NURS 92, 92L, and 92P.*
*Corequisite: NURS 93AL.*
*Two hours lecture (24 hours total per quarter).*
This course focuses on an introduction to the nursing care of children. The framework of patient-centered 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. 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. Both NURS 93A and NURS 93AL must be taken and passed concurrently within the same quarter (failure of either component requires both courses to be retaken).

**NURS 93AL**     **Pediatric Nursing Clinical**     **2 Units**
*(Formerly NURS 83AL.)*
*Prerequisite: NURS 92, 92L, and 92P.*
*Corequisite: NURS 93A.*
*Six and one-half hours laboratory (78 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
This course focuses on the application of concepts learned in the theory class, to the management of nursing care of children and their families. Students will use nursing processes, research, problem-solving and critical thinking skills to facilitate culturally congruent care in acute care settings within the framework of safe patient-centered/family-centered, evidence-based care. Learning experiences will be enhanced with clinical simulation and observation activities. Both NURS 93AL and NURS 93A must be taken and passed concurrently within the same quarter (failure of either component requires both courses to be retaken).

**NURS 93L**     **Reproductive Health Nursing Clinical**     **2 Units**
*(Formerly NURS 83L.)*
*Prerequisite: NURS 92, 92L, and 92P.*
*Corequisite: NURS 93.*
*Six and one-half hours laboratory (78 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
This course focuses on the application of concepts learned in the theory class to the management of nursing care of clients seeking reproductive health services. Students will use nursing processes, research, problem-solving and critical thinking skills to facilitate culturally congruent care in reproductive care settings within the framework of safe patient-centered, evidence-based care. The learning experience will be enhanced with clinical simulations and observation activities. Both NURS 93L and NURS 93 must be taken and passed concurrently within the same quarter (failure of either component requires both courses to be retaken).

**NURS 93PL**     **Pharmacology III Laboratory**     **1/2 Unit**
*(Formerly NURS 83PL.)*
*Prerequisite: NURS 92P.*
*One and one-half hours laboratory (18 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
This laboratory course focuses on the skill mastery of intravenous methodologies for the administration of medications. Advanced vascular access, blood administration, and parenteral administration will be examined in relation to legal, ethical and safety issues in nursing practice. The nurses' scope of practice, critical thinking and problem solving will be examined.

**NURS 94**     **Gerontology Nursing**     **2 Units**
*(Formerly NURS 84.)*
*Prerequisite: NURS 93, 93A, 93AL, 93L, and 93PL.*
*Corequisite: NURS 94L.*
*Two hours lecture (24 hours total per quarter).*
This course builds on prior learning experiences to develop knowledge and skills used in the management of nursing care of older adult patients experiencing complex health challenges and chronic changes in health status. The course integrates the knowledge of pathophysiology, diagnostics, pharmacology, communication concepts and therapeutic interventions in order to facilitate culturally congruent nursing care for patients with acute and chronic variations in health patterns. Students will become increasingly competent in the application of nursing process, research, problem-solving and the use of clinical judgment within the framework of safe patient-centered, evidence-based care. Both NURS 94 and NURS 94L must be taken and passed concurrently within the same quarter (failure of either component requires both courses to be retaken).

**NURS 94A**     **Psychiatric/Mental Health Nursing**     **2 Units**
*(Formerly NURS 85A.)*
*Prerequisite: NURS 93, 93A, 93AL, 93L, and 93PL.*
*Corequisite: NURS 94AL.*
*Two hours lecture (24 hours total per quarter).*
This course builds on prior learning experiences to develop knowledge and skills used in the management of nursing care of patients experiencing psychiatric and mental health challenges. The course integrates the knowledge of pathophysiology, diagnostics, pharmacology, communication concepts, and therapeutic interventions in order to facilitate culturally congruent nursing care for patients with complex variations in psychiatric health patterns. Students will become increasingly competent in the application of nursing processes, research, problem-solving and the use of clinical judgment within the framework of safe, patient-centered, evidence-based care. Both NURS 94A and NURS 94AL must be taken and passed concurrently within the same quarter (failure of either component requires both courses to be retaken).

**NURS 94AL**     **Psychiatric/Mental Health Nursing Clinical**     **2 Units**
*(Formerly NURS 85AL.)*
*Prerequisite: NURS 93, 93A, 93AL, 93L, and 93PL.*
*Corequisite: NURS 94A.*
*Six and one-half hours laboratory (78 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
The focus of this course is on the application of concepts learned in the theory class to the management of nursing care of clients experiencing psychiatric and mental health challenges. Students will use nursing processes, research, problem-solving and critical thinking skills to facilitate culturally congruent nursing care in acute care settings within the framework of safe patient-centered, evidence-based care. Learning experiences will be enhanced with observation activities. Both NURS 94AL and NURS 94A must be taken and passed concurrently within the same quarter (failure of either component requires both courses to be retaken).

**NURS 94L**     **Gerontology Nursing Clinical**     **2 Units**
*(Formerly NURS 84L.)*
*Prerequisite: NURS 93, 93A, 93AL, 93L, and 93PL.*
*Corequisite: NURS 94.*
*Six and one-half hours laboratory (78 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
The focus of this course is on the application of concepts learned in the theory class for the management of nursing care of older adult patients experiencing complex health challenges and chronic changes in health status. Students will use nursing processes, research, problem-solving and critical thinking skills to facilitate culturally congruent care in acute care settings within the framework of safe patient-centered, evidence-based care. Learning experiences will be enhanced with clinical simulation and observation activities. Both NURS 94L and NURS 94 must be taken and passed concurrently within the same quarter (failure of either component requires both courses to be retaken).

**NURS 95**     **Complex Health Challenges**     **4 Units**
*(Formerly NURS 85.)*
*Prerequisite: NURS 94, 94A, 94AL, and 94L.*
*Corequisite: NURS 95L.*
*Four hours lecture (48 hours total per quarter).*
This course builds on prior learning experiences to develop knowledge and skills used in the management of nursing care of patients experiencing complex health challenges and rapid changes in health status. It also integrates the knowledge of pathophysiology, diagnostics, pharmacology, communication concepts, and therapeutic interventions in order to facilitate culturally congruent nursing care for patients with complex variations in health patterns. Students will become increasingly competent in the application of nursing processes, research, problem-solving and use of clinical judgment. Both NURS 95 and NURS 95L must be taken and passed concurrently within the same quarter (failure of either component requires both courses to be retaken).

**NURS 95L**     **Complex Health Challenges Clinical**     **4 1/2 Units**
*(Formerly NURS 85L.)*
*Prerequisite: NURS 94, 94A, 94AL, and 94L.*
*Corequisite: NURS 95.*
*Fourteen hours laboratory (168 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
The focus of this course is on the application of concepts learned in the theory class to the management of nursing care of critically ill clients experiencing complex health challenges and rapid changes in health status. Students will use nursing processes, research, problem-solving and critical thinking skills to facilitate culturally congruent care in acute care settings, within the framework of safe, patient-centered and evidence-based care. The learning experience will be enhanced with clinical simulation and observation activities. Both NURS 95L and NURS 95 must be taken and passed concurrently within the same quarter (failure of either component requires both courses to be retaken).

**NURS 96        Leadership and Management in Nursing      2 Units**
*(Formerly NURS 86.)*
*Prerequisite: NURS 95 and NURS 95L.*
*Corequisite: NURS 96L.*
*Two hours lecture (24 hours total per quarter).*
This course is designed to prepare a Registered Nursing student to function as a graduate nurse. It builds on prior learning experiences in the management of nursing care of patients, culminating in readiness to function as a newly graduated registered nurse. The course integrates the knowledge of pathophysiology, diagnostics, pharmacology, communication concepts, and therapeutic interventions in order to facilitate culturally congruent nursing care. Students will become competent in the application of nursing processes, research, problem-solving and use of clinical judgment within the framework of safe patient-centered, evidence-based care. The focus of this course includes the managerial/leadership role, interdisciplinary practice, legal challenges of clinical practice, and trends within the nursing profession. Both NURS 96 and NURS 96L must be taken and passed concurrently within the same quarter (failure of either component requires both courses to be retaken).

**NURS 96A        Nursing Concept Integration      2 Units**
*Prerequisite: NURS 95 and NURS 95L.*
*Two hours lecture (24 hours total per quarter).*
Nursing Concept Integration is designed to provide a final educational experience and prepare the Registered Nursing student to demonstrate mastery of nursing knowledge, critical thinking, and preparedness to sit for the NCLEX-RN examination. The culmination of this course is the comprehensive computerized Exit exam. The focus of the course includes a review of important and essential concepts from the nursing program, identifying areas for in-depth study and individual focus, and refinement of test-taking strategies.

**NURS 96L        Leadership and Management in      4 1/2 Units
                 Nursing Clinical**
*(Formerly NURS 86L.)*
*Prerequisite: NURS 95 and NURS 95L.*
*Corequisite: NURS 96.*
*Fourteen hours laboratory (168 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
This prelicensure preceptorship course is designed to prepare the student to function as a graduate nurse. Students will provide safe patient-centered, evidence-based nursing care for patients under the guidance of a registered nurse working in the community and supervised by the faculty liaison. The student will work on the day, evening or night shift, depending on the schedule of the assigned preceptor. Settings assigned may include acute care, sub-acute/post-acute care, rehabilitation nursing, surgical centers, hospice care, or other community settings. Learning experiences may be enhanced with clinical simulations and observation activities; in simulated lab experiences, the student will assist with running the simulation activity. Both NURS 96L and NURS 96 must be taken and passed concurrently within the same quarter (failure of either component requires both courses to be retaken).

**NURS 201        Nursing Laboratory Skills for      1 Unit
                 Fundamentals of Nursing/Sub-Acute**
*(Formerly NURS 151.)*
*Credit course - Does not apply to De Anza associate degree.*
*Prerequisite: NURS 91AL and NURS 91BL (may be taken concurrently).*
*Three hours laboratory (36 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
This course provides the student with nursing skills practice in a campus laboratory setting.

**NURS 202        Nursing Laboratory Skills for      1 Unit
                 Medical-Surgical Nursing**
*(Formerly NURS 152.)*
*Credit course - Does not apply to De Anza associate degree.*
*Prerequisite: NURS 92L (may be taken concurrently).*
*Three hours laboratory (36 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
This course provides the student with nursing skills practice in a campus laboratory setting.

**NURS 203        Nursing Laboratory Skills for      1 Unit
                 Pediatric and Reproductive Health Nursing**
*(Formerly NURS 153.)*
*Credit course - Does not apply to De Anza associate degree.*
*Prerequisite: NURS 93L or NURS 93AL (may be taken concurrently).*
*Three hours laboratory (36 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
This course provides the student with nursing skills practice in a campus laboratory setting.

**NURS 204        Nursing Laboratory Skills for      1/2 Unit
                 Gerontology Nursing**
*(Formerly NURS 154.)*
*Credit course - Does not apply to De Anza associate degree.*
*Prerequisite: NURS 94L (may be taken concurrently).*
*One and one-half hours laboratory (18 hours total per quarter).*

*Pass-No Pass (P-NP) course.*
This course provides the student with 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 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 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 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 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 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.

**P**

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

**PARA 65W**     **Current Paralegal Topics**     **1 Unit**
**PARA 65X**                                                    **2 Units**
**PARA 65Y**                                                    **3 Units**
**PARA 65Z**                                                    **4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273; background or experience appropriate to topic or consent of instructor.*
*One hour lecture for each unit of credit (12 hours total for each unit of credit per quarter).*
Current developments in the substantive law in an area of legal practice; current developments in procedural law in that area of legal practice; current developments in legal forms used in that area of legal practice; the role of the paralegal in substantive and procedural law in that area of legal practice.

**PARA 67**     **Law Office Management for Paralegals**     **2 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours lecture (24 hours total per quarter).*
This course examines the law office environment, its structure and procedural aspects, and the important role the paralegal plays within it.

**PARA 69**     **Paralegal Field Trips**     **1 Unit**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours laboratory (36 hours total per quarter).*
This course will survey current conditions in the paralegal field.

**PARA 74A**     **Interviewing, Interrogation and**     **4 Units**
                 **Crisis Intervention**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Also listed as ADMJ 74A and PSYC 74A. Students may enroll in only one department for credit.)*
*Four hours lecture (48 hours total per quarter).*
This course examines the theories, principles, and strategies of tactical and interpersonal communication necessary to interview victims, witnesses, and suspects. Students will explore crisis intervention strategies for victims and witnesses of crime, along with communication with individuals from diverse backgrounds with consideration to race, ethnicity, gender, age, and special needs.

**PARA 75**     **Principles and Procedures of the**     **4 Units**
                 **Justice System**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Also listed as ADMJ 75 and POLI 75. Students may enroll in only one department for credit.)*
*Four hours lecture (48 hours total per quarter).*
Procedures followed by law enforcement and courts in criminal cases; constitutional principles governing those procedures.

**PARA 85**     **Intellectual Property Law**     **4 Units**
*Prerequisite: ADMJ 95 or PARA 95 or POLI 95 (either course may be taken concurrently).*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
Overview of the law of intellectual property, including trade secrets, trademarks, patents and copyrights and examination of the role of the paralegal in this area.

**PARA 86**     **Legal Analysis**     **4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
This course examines the principles of legal analysis with an emphasis on analysis of case law; detailed examination of written case opinions; methods of interpreting statutory law; and the development of legal arguments based on case law and statutory law.

**PARA 87**     **Personal Injury and Tort Litigation**     **4 Units**
*Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or professional experience appropriate to the topic.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
Substantive tort law emphasizing concepts applicable to automobile accident cases, product liability cases, premises liability cases and malpractice cases; insurance law affecting personal injury litigation; basic medical terminology in personal injury litigation; procedural rules and practices related to personal injury litigation in California with an emphasis on the role of the paralegal.

**PARA 88**     **The Paralegal and Professional**     **2 Units**
                 **Responsibility**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Two hours lecture (24 hours total per quarter).*
An examination of the role of the paralegal in the legal system. Ethical rules and guidelines governing legal professionals will also be examined.

**PARA 89**     **Landlord Tenant Law**     **4 Units**
*Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or professional experience appropriate to the topic.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
California law relating to creation of landlord/tenant relationship; legal rights of landlords; legal rights of tenants; eviction proceedings.

**PARA 90A**     **Legal Aspects of Evidence (CP 4)**     **4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Also listed as ADMJ 90A. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
The origin, development, and content of the rules of evidence; kinds of degrees of evidence and rules governing admissibility of evidence.

**PARA 91A**     **California Family Law**     **4 Units**
*Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or professional experience appropriate to the topic.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
Substantive and procedural aspects of family law practice in California, with emphasis on dissolution procedures.

**PARA 92A**     **Partnerships and Corporations**     **4 Units**
*Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or professional experience appropriate to the topic.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
Substantive and procedural law of basic business organizations, including sole proprietorships, partnerships, corporations and limited liability companies and partnerships.

**PARA 92B**     **Corporate Securities Regulations**     **4 Units**
*Prerequisite: PARA 92A or professional experience appropriate to the topic.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
Substantive laws and procedural rules and forms related to California and federal corporate securities regulations.

**PARA 93**     **Bankruptcy Law**     **4 Units**
*Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or professional experience appropriate to the topic.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
Substantive law of bankruptcy; legal rights of debtors and creditors, procedural rules and forms for bankruptcy; practical applications.

**PARA 94**     **Introduction to California Law**     **4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
The legal structures and legal procedures existing within the state of California and the roles and duties of legal personnel in California, with an emphasis on the role and duty of paralegals, will be examined in this course.

**PARA 95**     **Overview of American Law**     **4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Also listed as ADMJ 95 and POLI 95. Students may enroll in only one department for credit.)*
*Four hours lecture (48 hours total per quarter).*
Overview of the major substantive areas of American law: contracts, constitutional law, corporations, criminal law, family law, property, torts, wills and estates.

**PARA 96A**     **Introduction to Legal Research**     **4 Units**
                 **and Writing**
*Prerequisite: PARA 94 (may be taken concurrently) or PARA 95 (may be taken concurrently) or PARA 86 (may be taken concurrently) or professional experience appropriate to the topic.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
Organization and publication of American and California law; using print and on-line legal resources to find the law; using the law to analyze legal issues arising from factual disputes; writing a memorandum of law utilizing acceptable legal citation format.

**PARA 96C**     **Computer Assisted Legal Research**     **4 Units**
                 **and Investigation**
*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 ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
Use of the Internet to find legal resources and conduct legal investigations; 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 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 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 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 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
An 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 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 a 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
Further development of material presented in PERS 1 and PERS 2 with a 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          Introduction to Philosophy          4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
An introduction to the scope and methods of the philosophical discipline, emphasizing topics in 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 (EWRT 1AS and EWRT 1AT) 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 political authority, rights, equality, freedom, agency, responsibility, justice, and social identity.

**PHIL 3          Critical Thinking and Writing          5 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT).*
*Five hours lecture (60 hours total per quarter).*
This course is 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 moral thinking, problem-solving, and the evaluation of arguments. 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is an introduction to the study of argumentation, critical evaluation, and the use of language in the interpretation of diverse forms of discourse. It 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.)*
*(Not open to students with credit in PHIL 7H.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is a study of the concepts and methods of deductive logic, emphasizing formal proof techniques in sentential and predicate logic.

**PHIL 7H          Deductive Logic - HONORS          4 Units**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in PHIL 7.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is a study of the concepts and methods of deductive logic, emphasizing formal proof techniques in sentential and predicate logic. Students in this course will be expected to complete additional assignments in order to gain further proficiency in formal logical methods.

**PHIL 8          Ethics          4 Units**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in PHIL 8H.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is an integrated and multicultural study of ethical philosophy and emphasizes topics such as the good life, the nature of value, moral reflection, moral reasoning, and action. Many approaches to ethics, including Western and non-Western traditions will be examined.

**PHIL 8H          Ethics - HONORS          4 Units**
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in PHIL 8H.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is an integrated and multicultural study of ethical philosophy and emphasizes topics such as the good life, the nature of value, moral reflection, moral reasoning, and action. Many approaches to ethics, including Western and non-Western traditions will be examined. Students in this honors course will be expected to complete extra assignments to gain a deeper insight into moral philosophy.

**PHIL 11          Asian Philosophy          4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
An introduction to the major themes and figures of Asian philosophical traditions, emphasizing those found in China, India and Japan. Studies may include Confucianism, Moism, Yangism, Taoism, the Upanishads, Vedanta, Jaina, Buddhism, Zen and Shinto. Classical thought will be primarily emphasized, though some attention will be given to contemporary thinkers.

**PHIL 20A          History of Western Philosophy -          4 Units**
**                    Ancient Greece**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
Examination of the problems of knowledge, reality, truth, value, agency, morality, and wisdom in Greek philosophy from Thales to Aristotle. Emphasis will be given to applications of Greek thinking to social, aesthetic, cultural, gender, historical, and religious issues.

**PHIL 20B**      **History of Western Philosophy -**      **4 Units**
**1400-1800**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
An introduction to the major philosophers of the Western tradition from the Renaissance through the early modern period. Examination of the problems of knowledge, reality, truth, freedom, agency, morality and value theory in figures from Descartes to Kant, including marginalized figures and groups, such as Elizabeth of Bohemia.

**PHIL 20C**      **History of Western Philosophy -**      **4 Units**
**1800-the Present**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
An introduction to the major philosophers of the Western tradition from 1900 to the present with an emphasis on major philosophers and movements that examine problems of knowledge, reality, truth, value, and human existence, as well as their applications to the sciences and other fields, such as cultural studies.

**PHIL 24**      **Philosophy of Religion**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
An introduction to Philosophy of Religion investigating religious experience, belief and life under the scope of philosophy. Analyzes issues including: the cognitive component in religious experience, religion and feminism, religious fundamentalism, arguments for and against theism, and attitudes toward both philosophy and religion in a variety of cultural contexts.

**PHIL 30**      **Introduction to Existentialism**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course examines central figures, texts, and ideas within existential philosophy, with an emphasis on the fundamental ontological assumption held by all existentialists, namely the existentialists' rejection of rationalism and the idea that a metaphysical system can (or should) describe the world as containing determinate essences that confer univocal conceptual identities upon things, situations, and actions.

**PHIL 49**      **Women and Philosophy**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as WMST 49. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
Examination of feminist theory, "feminism," feminist thought and the philosophy produced by a diverse range of women in philosophy. Investigation of the ways that understandings of the relations between the sexes have influenced the work of philosophers from different cultures.

**PHIL 77**      **Special Projects in Philosophy**      **1 Unit**
**PHIL 77X**      **2 Units**
**PHIL 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).*
Specific reading, writing or study projects within the discipline of Philosophy.

# Photography

**PHTG 1**      **Basic Photography**      **3 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Two hours lecture, three hours laboratory (60 hours total per quarter).*
Introduction to black and white photography. Overview of the 35mm single lens reflex camera operating system. Basic understanding of film processing, printing and finishing. Development of critical thinking skills to analyze historical, cultural, conceptual and practical aspects of a medium used worldwide. Preparatory for further work in photography including digital imaging.

**PHTG 2**      **Intermediate Photography**      **3 Units**
*Prerequisite: PHTG 1.*
*Two hours lecture, three hours laboratory (60 hours total per quarter).*
*(This course is included in the Analog Photography Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*

Intermediate black and white photography. Overview of the medium format camera and continued use of the 35mm camera. Demonstration of basic 4x5 camera principles. Introduction to studio portraiture and basic studio practices. Continued development of critical thinking skills to analyze historical, cultural, conceptual and practical aspects of a medium used worldwide. Preparatory for further work in photography including digital imaging.

**PHTG 3**      **Advanced Photography**      **3 Units**
*Prerequisite: PHTG 2 or PHTG 5.*
*Two hours lecture, three hours laboratory (60 hours total per quarter).*
*(This course is included in the Photography - Professional Practices Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Advanced photography for film and/or digital practices. Capture, process, and print technically and well-conceived images. Organize and assemble a strong group of images that are conceptually strong and exhibit a strong personal vision. Refine development of critical thinking skills to analyze historical, cultural, conceptual, and practical aspects of the photographic medium.

**PHTG 4**      **Introduction to Digital Photography**      **3 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture, three hours laboratory (60 hours total per quarter).*
An introduction to digital photography and digital imaging processes. Gain proficiency in the use of a digital camera and explore the digital darkroom using Adobe Lightroom. Develop skills in digital print output for both fine art and commercial applications. Gain knowledge of issues in contemporary photography and develop an ability to analyze and discuss photographic imagery. Basic, beginning photography and wet darkroom experience recommended.

**PHTG 5**      **Intermediate Digital Photography**      **3 Units**
*Prerequisite: PHTG 4.*
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263.*
*Two hours lecture, three hours laboratory (60 hours total per quarter).*
*(This course is included in the Digital Photography Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Further study of digital photography and digital imaging processes. Gain greater control over the quality of your digital images through shooting RAW, organization and development through Lightroom, and/or image editing with Photoshop. Create a work flow for producing high quality prints. Discuss and analyze current trends in photography.

**PHTG 7**      **Exploring Visual Expression**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
Exploring visual expression through the photographic medium. Understanding of basic principles of perception, light, color, composition and visual awareness. Development of critical thinking skills to express aesthetic, intellectual and emotional concerns. Basic overview of the history of the medium. Instruction on the use of cameras, lenses, and other creative controls of photography.

**PHTG 21**      **Contemporary Trends in Photography**      **4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
A comprehensive introduction to contemporary trends, styles and applications of photography starting in 1925. An examination of photography's broad impact as a cultural, visual and social force including the diversity of 20th and 21st Century photographic movements.

**PHTG 52**      **Photography Production Laboratory**      **2 Units**
*Prerequisite: PHTG 1 or PHTG 4 (may be taken concurrently).*
*Six hours laboratory (72 hours total per quarter).*
*(This course is included in the Photography - Professional Practices Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Supervised use of photographic studio, darkrooms and/or photographic computer lab space.

**PHTG 54**      **Experimental Photography**      **3 Units**
*Prerequisite: PHTG 1 (may be taken concurrently).*
*Two hours lecture, three hours laboratory (60 hours total per quarter).*
*(This course is included in the Analog Photography Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Introduction to experimental and nontraditional photographic processes through the use of analog and digital photography. View both historical and contemporary approaches to camera and darkroom use in the creation of photographic imagery. Make enlarged negatives, create cyanotype and VanDyke brown prints, tone and Handcolor images, and use digital imaging to emulate these and other traditional processes. Produce an engaging and expressive collection of images.

**PHTG 57A**     **Commercial Lighting I**     **3 Units**
*Prerequisite: PHTG 1 or PHTG 4.*
*Two hours lecture, three hours laboratory (60 hours total per quarter).*
*(This course is included in the Photography - Professional Practices Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Basic lighting skills. Provide an understanding of the use of artificial light sources and associated equipment in a studio environment. Learn controls of lighting ratios, contrast, texture and form, reflection, and exposure. Produce photographic images relevant to the techniques and production methods covered.

**PHTG 57B**     **Commercial Lighting II**     **3 Units**
*Prerequisite: PHTG 57A.*
*Two hours lecture, three hours laboratory (60 hours total per quarter).*
*(This course is included in the Photography - Professional Practices Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Intermediate/advanced lighting skills. Learn complex lighting for reflective surfaces, commercial portraits, and exterior and interior architectural shooting. Produce photographic images relevant to the techniques and production methods covered. Gain an understanding of commercial studio organization and operation.

**PHTG 58A**     **Photographic Photoshop I**     **3 Units**
*Advisory: EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Two hours lecture, three hours laboratory (60 hours total per quarter).*
*(This course is included in the Digital Photography Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Introduction to digital imaging using the application Photoshop. Overview of Macintosh operating system. Basic understanding of image capture, input, storage, and output. Use of specifically photographic methods and controls to create and manage imagery in an all digital environment. The development of critical thinking skills to analyze diverse cultural, intellectual, philosophical, ethical and aesthetic concerns of the photographic medium as a part of new technologies.

**PHTG 58B**     **Photographic Photoshop II**     **3 Units**
*Advisory: PHTG 58A; EWRT 200 and READ 200, or ESL 261, 262 and 263; MATH 210 or equivalent.*
*Two hours lecture, three hours laboratory (60 hours total per quarter).*
*(This course is included in the Digital Photography Family of activity courses. Please see the rules on "Repeating Courses" in the College Policies section of the catalog.)*
Refinement of digital imaging skills using the application Photoshop. Learn channel mixing, advanced layering, and masking techniques. Understanding of color management, optimization of the toolbox and an introduction to large format printing. Use of specifically photographic methods and controls to create and manage imagery in an all-digital environment. Development of critical thinking skills to analyze diverse cultural, intellectual, philosophical, ethical and aesthetic concerns of the digital photograph.

**PHTG 60**     **Using a Digital Camera**     **2 Units**
*Requisite/Advisory: None.*
*One hour lecture, three hours laboratory (48 hours total per quarter).*
An online introduction to the fundamentals of digital photography; basic camera types, controls, image formats, storage, and creative controls will be covered. Technical and compositional exercises will provide a solid understanding of the photographic medium.

# Physical Education

*(See Kinesiology for additional Physical Eduation courses.)*

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: deanza.edu/apply-and-register/register/repeat_limits.

**P E 4XX**     **High-Intensity Strength Development**     **1 Unit**
                  **for Athletes**
*Prerequisite: Enrollment in intercollegiate athletics.*
*(Satisfies the requirement of an intercollegiate athletics course. May be taken up to six times for credit.)*
*Three hours laboratory (36 hours total per quarter).*
Designed for intercollegiate athletic teams. Specificity of rigorous total body strength development is emphasized. A single set, high intensity, three days per week program is utilized. The course is based upon the principles of high-intensity lifting to gain maximum strength throughout the various muscle systems. Concentric and eccentric failure of the muscles is emphasized using free weights and Hammer Strength apparatus.

**P E 32BX**     **Women's Badminton Techniques**     **1 Unit**
**P E 32B**                                                 **2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive badminton experience at the high school, club or collegiate levels, and consent of instructor.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 32BX and 32B 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).*
This course is 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. It includes a global examination of the sport, rules, equipment, facilities, and etiquette. Basic physiology, nutrition, flexibility, strength and endurance techniques relative to badminton will be discussed.

**P E 32F**     **Defensive Baseball Techniques**     **2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive baseball experience at the high school, club or collegiate levels, and consent of instructor.*
*Advisory: EWRT 211 and READ 211, or 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 defensive baseball techniques. Includes a global and historical examination of the skills and techniques of advanced defensive baseball, team interaction, and baseball theory. Through the study of film and use of playbooks the student will learn the various segments of defensive play. Exercise physiology, nutrition, flexibility and strength concepts for conditioning will be covered.

**P E 32G**     **Offensive Baseball Techniques**     **2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive baseball experience at the high school, club or collegiate levels, and consent of instructor.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. May be taken up to six times for credit.)*
*Six hours laboratory (72 hours total per quarter).*
An introduction to the discipline of physical education through offensive baseball techniques. Includes a global and historical examination of the skills and techniques of advanced offensive baseball and the changes that have influenced the modern game. Includes analysis of movement, team interaction, and baseball theory. Through the study of film, the student will learn the various segments of offensive play. Exercise physiology, nutrition, flexibility and strength concepts for conditioning will be covered.

**P E 32HX**     **Offensive Football Techniques**     **1 Unit**
**P E 32H**                                                  **2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive football experience at the high school, club or collegiate levels, and consent of instructor.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 32HX and 32H may be taken up to six times for credit.)*
*Three hours laboratory for the one unit course (36 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter).*
This course is an introduction to the discipline of Kinesiology through offensive football techniques and 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 the use of playbooks, the student will learn the various segments of offensive play. Exercise physiology, nutrition, flexibility, and strength concepts for conditioning will be covered.

**P E 32IX**     **Defensive Football Techniques**     **1 Unit**
**P E 32I**                                                   **2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive football experience at the high school, club or collegiate levels, and consent of instructor.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 32IX and 32I may be taken up to six times for credit.)*
*Three hours laboratory for the one unit course (36 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter).*
This course is an introduction to the discipline of Kinesiology through defensive football techniques and 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.

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

**P E 32JX**      **Water Polo Techniques**      **1 Unit**
**P E 32J**      **2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive water polo experience at the high school, club or collegiate levels, and consent of instructor.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 32JX and 32J may be taken up to six times for credit.)*
*Three hours laboratory for the one unit course (36 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter).*
This course introduces the discipline of Kinesiology through the sport of water polo and 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 is preferred at the high school, club, or collegiate levels.

**P E 32K**      **Basketball Techniques**      **2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive basketball experience at the high school, club or collegiate levels, and consent of instructor.*
*Advisory: EWRT 211 and READ 211, or 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).*
This course introduces the discipline of Kinesiology through the sport of basketball and includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Students will learn the skills and techniques of advanced basketball play. The course includes an analysis of basketball movement, team interaction, and basketball theory. Students will apply basic exercise physiology, nutrition, and muscular strength and endurance concepts to improve their overall playing level.

**P E 32LX**      **Volleyball Techniques**      **1 Unit**
**P E 32L**      **2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive volleyball experience at the high school, club or collegiate levels, and consent of instructor.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 32LX and 32L may be taken up to six times for credit.)*
*Three hours laboratory for the one unit course (36 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter).*
This course is an introduction to the discipline of Kinesiology through the sport of volleyball and 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. Students will learn the skills and techniques of advanced volleyball play along with an analysis of movement, team interaction, and volleyball theory.

**P E 32MX**      **Soccer Techniques**      **1 Unit**
**P E 32M**      **2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive soccer experience at the high school, club or collegiate levels, and consent of instructor.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 32MX and 32M may be taken up to six times for credit.)*
*Three hours laboratory for the one unit course (36 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter).*
This course provides a further examination of the discipline of Kinesiology through the modern sport of soccer and includes rules, equipment, facilities, etiquette, and preparation for a competitive level of play. This course is designed to enhance the skills and strategies of intermediate or advanced soccer players. Strategies and tactics of the game will be discussed and performed while basic exercise physiology, nutrition, flexibility, muscular strength, and endurance techniques relative to soccer will be discussed.

**P E 32N**      **Track and Field Techniques**      **2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive track and field experience at the high school, club or collegiate levels, and consent of instructor.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. May be taken up to six times for credit.)*
*Six hours laboratory (72 hours total per quarter).*
An introduction to the discipline of Physical Education through the competitive sport of track and field. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Students will improve their individual track and field skills, increase their ability to employ advanced strategies and increase their knowledge of exercise physiology, exercise nutrition, kinesiological concepts underlying the development of force, power and body awareness.

**P E 32P**      **Techniques of Swimming**      **2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive swimming experience at the high school, club or collegiate levels, and consent of instructor.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. May be taken up to six times for credit.)*
*Six hours laboratory (72 hours total per quarter).*
An introduction to the discipline of physical education through swimming and diving. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Through the competitive class experience, students will improve their individual swimming skills, increase their ability to employ advanced training and increase their knowledge of exercise physiology, exercise nutrition, kinesiological concepts underlying the development of force, power, and biomechanics.

**P E 32SX**      **Women's Soccer Techniques**      **1 Unit**
**P E 32S**      **2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive soccer experience at the high school, club or collegiate levels, and consent of instructor.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 32SX and 32S may be taken up to six times for credit.)*
*Three hours laboratory for the one unit course (36 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter).*
This course provides a further examination of the discipline of Kinesiology through the sport of soccer. It is designed to enhance the skills and strategies of intermediate to advanced soccer players and includes rules, equipment, facilities, etiquette, and preparation for performance on a competitive level. Strategies and tactics of the game will be discussed and performed while basic exercise physiology, nutrition, flexibility, muscular strength, and endurance techniques relative to soccer will be discussed.

**P E 32T**      **Tennis Techniques**      **2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive tennis experience at the high school, club or collegiate levels, and consent of instructor.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. May be taken up to six times for credit.)*
*Six hours laboratory (72 hours total per quarter).*
An introduction to the discipline of physical education through the study of tennis. Includes a brief historical examination of how the game of tennis has changed due to the influence of individual men, women, and children, of various countries, and their styles of play or strategies. Development of consistency, accuracy and ground strokes, serve, volley, footwork, lob and overhead skills within a competitive situation will be emphasized. Introducing elements of changing the dynamics of the game with spins and drop shots or by approaching the net; advanced singles and doubles strategies. Students will review and apply basic exercise physiology, nutrition, flexibility, and strength concepts to improve their physical condition in order to play tennis at a competitive level.

**P E 32W**      **Softball Techniques**      **2 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive softball experience at the high school, club or collegiate levels, and consent of instructor.*
*Advisory: EWRT 211 and READ 211, or 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).*
This course is an introduction to the discipline of Kinesiology through softball techniques and includes a global and historical examination of the skills and techniques of advanced softball and the changes that have influenced the modern game. The course also includes an 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 while exercise physiology, nutrition, flexibility, and strength concepts for conditioning will also be covered.

**P E 38WX**      **Intercollegiate Women's Badminton**      **1 ½ Units**
**P E 38 WY**      **2 Units**
**P E 38W**      **3 Units**
*(P E 38WX was formerly P E 98A.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive experience in badminton, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 38WX, 38WY and 38W may be taken up to six times for credit.)*
*Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).*
An introduction to the discipline of Physical Education through the sport of badminton. Includes a global examination of the sport, rules, equipment, facilities and etiquette.

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

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Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in matches. Discussion of the rules of the game, equipment technology and fair play will be incorporated into the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to badminton will be discussed.

| P E 39MX | Intercollegiate Men's Soccer | 1 ½ Units |
|---|---|---|
| P E 39MY | | 2 Units |
| P E 39M | | 3 Units |

*(P E 39M was formerly P E 39.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive experience in soccer, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association). Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 39MX, 39MY and 39M may be taken up to six times for credit.)*
*Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).*
An introduction to the discipline of Physical Education through the sport of soccer. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Emphasis placed upon the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in match play. Discussion of strategic information from scouting reports with application to game preparation and management. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to soccer will be discussed.

| P E 39WX | Intercollegiate Women's Soccer | 1 ½ Units |
|---|---|---|
| P E 39WY | | 2 Units |
| P E 39W | | 3 Units |

*(P E 39WX was formerly P E 98C.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive experience in women's soccer, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association). Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 39WX, 39WY and 39W may be taken up to six times for credit.)*
*Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).*
This course introduces the discipline of Kinesiology through the sport of soccer and 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 intercollegiate athletics. The laws of the game, the De Anza College Code of Ethics, and intercollegiate rules will be discussed along with exercise physiology, nutrition, flexibility, muscular strength, and endurance techniques relative to soccer at the collegiate level.

| P E 40X | Intercollegiate Football | 1 ½ Units |
|---|---|---|
| P E 40Y | | 2 Units |
| P E 40 | | 3 Units |

*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive experience in football, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association). Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 40, 40X and 40Y may be taken up to six times for credit.)*
*Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).*
An introduction to the discipline of Physical Education through intercollegiate football. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in games. Discussion of the rules of the game, equipment technology and fair play will be incorporated into the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to football will be discussed.

| P E 41X | Intercollegiate Water Polo | 1 ½ Units |
|---|---|---|
| P E 41Y | | 2 Units |
| P E 41 | | 3 Units |

*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive experience in water polo, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association). Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 41X, 41Y and 41 may be taken up to six times for credit.)*
*Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).*
An introduction to the discipline of Physical Education through water polo. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in games. Discussion of the rules of the game, equipment technology and fair play will be incorporated into the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to water polo will be discussed.

| P E 42WX | Intercollegiate Women's Volleyball | 1 ½ Units |
|---|---|---|
| P E 42WY | | 2 Units |
| P E 42W | | 3 Units |

*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive experience in volleyball, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association). Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 42WX, 42WY and 42W may be taken up to six times for credit.)*
*Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).*
An introduction to the discipline of Physical Education through the sport of volleyball. Includes a global and historical examination of the sport, rules, equipment, facilities, etiquette, and safety. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in games. Discussion of the rules of the game, equipment technology and fair play will be incorporated into the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to volleyball will be discussed.

| P E 43X | Intercollegiate Cross Country (Men and Women) | 1 ½ Units |
|---|---|---|
| P E 43Y | | 2 Units |
| P E 43 | | 3 Units |

*(P E 43X was formerly P E 98G.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive experience in cross country, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association). Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 43X, 43Y and 43 may be taken up to six times for credit.)*
*Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).*
An introduction to the discipline of physical education through the competitive sport of cross country. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Through the intercollegiate competitive experience students will improve their individual running skills, increase their ability to employ advanced strategies and increase their knowledge of exercise physiology, exercise nutrition, kinesiological concepts underlying the development of endurance, strength development and body awareness.

| P E 44MX | Intercollegiate Men's Basketball | 1 ½ Units |
|---|---|---|
| P E 44MY | | 2 Units |
| P E 44M | | 3 Units |

*(P E 44MX was formerly P E 98H.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive experience in men's basketball, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association). Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 44MX, 44MY and 44M may be taken up to six times for credit.)*
*Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).*
An introduction to the discipline of Physical Education through the sport of basketball. Includes a global and historical examination of the sport, rules, equipment, facilities and etiquette. Emphasis is placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in games. Discussion of the rules of the game, equipment technology and fair play will be incorporated in the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to basketball will be discussed.

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

**P E 44WX**    **Intercollegiate Women's Basketball**    **1 ½ Units**
**P E 44WY**    **2 Units**
**P E 44W**    **3 Units**
*(P E 44WX was formerly P E 98J.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive experience in women's basketball, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 44WX, 44WY and 44W may be taken up to six times for credit.)*
*Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).*
An introduction to the discipline of Physical Education through the sport of basketball. Includes a global and historical examination of the sport, rules, equipment, facilities and etiquette. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in games. Discussion of the rules of the game, equipment technology and fair play will be incorporated into the course. Basic exercise physiology, nutrition, flexibility, muscular strength and endurance techniques relative to basketball will be discussed.

**P E 45X**    **Intercollegiate Swimming and Diving**    **1 ½ Units**
          **(Men and Women)**
**P E 45Y**    **2 Units**
**P E 45**    **3 Units**
*(P E 45X was formerly P E 98K.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive experience in swimming and diving, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 45X, 45Y and 45 may be taken up to six times for credit.)*
*Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).*
An introduction to the discipline of Physical Education through swimming and diving. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Through the intercollegiate competitive experience students will improve their individual swimming and diving skills, increase their ability to employ advanced training and increase their knowledge of exercise physiology, exercise nutrition, kinesiological concepts underlying the development of force, power and biomechanics.

**P E 46X**    **Intercollegiate Track and Field**    **1 ½ Units**
          **(Men and Women)**
**P E 46Y**    **2 Units**
**P E 46**    **3 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive experience in track and field, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 46X, 46Y and 46 may be taken up to six times for credit.)*
*Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).*
An introduction to the discipline of Physical Education through the competitive sport of track and field. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Through the intercollegiate competitive experience students will improve their individual track and field skills, increase their ability to employ advanced strategies and increase their knowledge of exercise physiology, exercise nutrition, kinesiological concepts underlying the development of force, power and body awareness.

**P E 47MX**    **Intercollegiate Baseball**    **1 ½ Units**
**P E 47MY**    **2 Units**
**P E 47M**    **3 Units**
*(P E 47MX was formerly P E 98M.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive experience in baseball, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 47MX, 47MY and 47M may be taken up to six times for credit.)*
*Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).*
An introduction to the discipline of Physical Education through intercollegiate baseball. Includes a global and historical examination of the skills of competitive baseball and the changes that have influenced the modern game. Includes analysis of offensive and defensive play, team interaction, and baseball theory. Through the intercollegiate competitive experience, student/athletes will improve their individual skills, increase their ability to employ advanced strategies and increase their knowledge of team play. Exercise physiology, nutrition, flexibility and strength concepts for conditioning will be covered.

**P E 47WX**    **Intercollegiate Softball**    **1 ½ Units**
**P E 47WY**    **2 Units**
**P E 47W**    **3 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive experience in softball, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 47WX, 47WY and 47W may be taken up to six times for credit.)*
*Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).*
An introduction to the discipline of Physical Education through intercollegiate softball. Includes a global and historical examination of the skills and techniques of advanced offensive softball and the changes that have influenced the modern game. Analysis of movement, team interaction, and softball theory will be discussed. Through game preparation and repetition throughout the season the student will learn the various segments of intercollegiate play. Exercise physiology, nutrition, flexibility and strength concepts for conditioning will be covered.

**P E 48MX**    **Intercollegiate Men's Tennis**    **1 ½ Units**
**P E 48MY**    **2 Units**
**P E 48M**    **3 Units**
*(P E 48MX was formerly P E 98P.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive experience in men's tennis, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 48MX, 48MY and 48M may be taken up to six times for credit.)*
*Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).*
An introduction to the discipline of Physical Education through tennis. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in matches. Through the intercollegiate competitive experience students will improve their individual tennis skills, increase their ability to employ advanced strategies and increase their knowledge of exercise physiology, exercise nutrition, kinesiological concepts underlying the development of force, power and accuracy.

**P E 48WX**    **Intercollegiate Women's Tennis**    **1 ½ Units**
**P E 48WY**    **2 Units**
**P E 48W**    **3 Units**
*(P E 48WX was formerly P E 98Q.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Competitive experience in women's tennis, physician's clearance and completion of eligibility forms; all second year athletes must fulfill academic requirements per the CCCAA (California Community College Athletics Association).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Satisfies the requirement of an intercollegiate athletics course. Any combination of P E 48WX, 48WY and 48W may be taken up to six times for credit.)*
*Four and one-half hours laboratory for the one and one-half unit course (54 hours total per quarter); six hours laboratory for the two unit course (72 hours total per quarter); nine hours laboratory for the three unit course (108 hours total per quarter).*
An introduction to the discipline of physical education through tennis. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Emphasis placed on the four major pillars of the game: mental, physical, tactical and technical aspects necessary to successfully compete in games. Through the intercollegiate competitive experience students will improve their individual tennis skills, increase their ability to employ advanced strategies and increase their knowledge of exercise physiology, exercise nutrition, concepts underlying the development of force, power and accuracy.

**P E 99**    **Orientation to Athletics**    **1 Unit**
*Prerequisite: Competitive athletics experience at a high school or club level; medical examination.*
*Advisory: EWRT 211 and READ211, 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,

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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

| PEA 1 | Adapted Total Fitness | 1/2 Unit |
|---|---|---|
| PEA 1X | | 1 Unit |
| PEA 1Y | | 1 1/2 Units |
| PEA 1Z | | 2 Units |

*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).*
*(Repeatable as needed to meet the Student Educational Contract (Title 5, section 56029).)*
Adapted to provide reasonable accommodations for students with verified physical disabilities, this course is an introduction to the discipline of Physical Education through total fitness. Students will improve total fitness through a program of cardiovascular exercise, agility, speed, flexibility and resistance training. Includes rules, equipment, etiquette, safety, nutrition, and techniques related to total fitness training. Includes a brief historical examination of how fitness training has changed due to the influences of individuals, cultures, and medical research. Students will review and apply basic exercise physiology and fitness concepts in the context of their own abilities and limitations to develop and/or maintain their cardiovascular, strength, and flexibility fitness levels.

| PEA 2 | Adapted Strength Development | 1/2 Unit |
|---|---|---|
| PEA 2X | | 1 Unit |
| PEA 2Y | | 1 1/2 Units |
| PEA 2Z | | 2 Units |

*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).*
*(Repeatable as needed to meet the Student Educational Contract (Title 5, section 56029).)*
Adapted to provide reasonable accommodations for students with verified physical disabilities, this course is an introduction to the discipline of Physical Education through strength development in the context of an individual's physical, intellectual, and/or affective abilities and limitations. Includes rules, equipment, etiquette, safety, nutrition, and techniques related to strength training. Includes a brief historical examination of how strength training has changed due to the influences of individuals, cultures, and medical research. Students will review and apply basic exercise physiology and strength development concepts in the context of their own abilities and limitations to develop and/or maintain their muscular strength.

| PEA 4 | Adapted Cardiovascular Training | 1/2 Unit |
|---|---|---|
| PEA 4X | | 1 Unit |
| PEA 4Y | | 1 1/2 Units |
| PEA 4Z | | 2 Units |

*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).*
*(Repeatable as needed to meet the Student Educational Contract (Title 5, section 56029).)*
Adapted to provide reasonable accommodations for students with verified physical disabilities, this course is an introduction to the discipline of Physical Education through cardiovascular training in the context of an individual's physical, intellectual, and/or affective abilities and limitations. Includes rules, equipment, etiquette, safety, nutrition, and techniques related to cardiovascular fitness training. Global and historical review of the evolution of aerobic exercise, exercise trends for men, women, and athletes as they correspond to the evolution of the discipline of Physical Education. Students will review and apply basic exercise physiology and fitness concepts in the context of their own abilities and limitations to develop and/or maintain their cardiovascular fitness levels.

| PEA 5 | Adapted Aquatic Exercise | 1/2 Unit |
|---|---|---|
| PEA 5X | | 1 Unit |
| PEA 5Y | | 1 1/2 Units |
| PEA 5Z | | 2 Units |

*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).*
*(Repeatable as needed to meet the Student Educational Contract (Title 5, section 56029).)*
Adapted to provide reasonable accommodations for students with verified physical disabilities, this course is an introduction the discipline of Physical Education through water exercise in the context of an individual's physical, intellectual, and/or affective abilities and limitations. Aquatic exercise uses dynamic aerobic exercise techniques to provide a level of conditioning for both the aerobic and anaerobic energy systems. The freestyle interval format combines jogging, jumping, walking, punching, kicking, and a variety of aerobic type movements performed in land-based programs. Students will strive for ultimate fitness through a complete program of cardiovascular exercise, strength development, and flexibility. An historical examination of aqua exercise for fitness, rehabilitation, and play will be included.

| PEA 6Y | Adapted Outdoor Education | 1 1/2 Units |
|---|---|---|

*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 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.

| PEA 15 | Adapted Aerobic Swimming | 1/2 Unit |
|---|---|---|
| PEA 15X | | 1 Unit |
| PEA 15Y | | 1 1/2 Units |
| PEA 15Z | | 2 Units |

*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 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 aerobic swimming in the context of an individuals physical, intellectual, and/or affective abilities and limitations. Includes rules, equipment, etiquette, safety, nutrition, and techniques related to aerobic swimming has changed due to the influences of individuals, cultures, and medical research. Students will review and apply basic exercise physiology and aerobic swimming concepts in the context of their own abilities and limitations to develop, maintain, or improve their aerobic swimming technique and endurance.

# 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 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 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 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.

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

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### PHYS 4A    Physics for Scientists and    6 Units
### Engineers: Mechanics
*(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 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. This course requires problem solving using verbal logic, critical analysis, and mathematical models. Students 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    6 Units
### Engineers: Electricity and Magnetism
*Prerequisite: PHYS 4A; MATH 1C or MATH 1CH (may be taken concurrently).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture, three hours laboratory (96 hours total per quarter).*
This course introduces classical electromagnetism and includes DC and AC circuits and elementary field theory.

### PHYS 4C    Physics for Scientists and    6 Units
### Engineers: Fluids, Waves, Optics and
### Thermodynamics
*Prerequisite: PHYS 4B; MATH 1D or MATH 1DH (may be taken concurrently).*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture, three hours laboratory (96 hours total per quarter).*
This is an introductory studies course in static and dynamic fluids, mechanical and non-mechanical waves, geometrical and physical optics, heat, and the laws of thermodynamics.

### PHYS 4D    Physics for Scientists and    6 Units
### Engineers: Modern Physics
*Prerequisite: PHYS 4C.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture, three hours laboratory (96 hours total per quarter).*
This course is an introduction to special relativity and quantum mechanics. Nuclear physics, elementary particles, and other selected topics are treated as time allows.

### PHYS 10    Concepts of Physics    5 Units
*(See general education pages for the requirement this course meets.)*
*Prerequisite: MATH 109, 114, 130 or equivalent; or a qualifying score on the Intermediate Algebra Placement Test.*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course explores 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 the scientific procedure as an interplay between theory and experimentation will be analyzed. Students will critically evaluate the role of scientific discovery in the success and development of technology.

### PHYS 50    Preparatory Physics    4 Units
*Advisory: MATH 43 (or MATH 43H) and PHYS 10.*
*Four hours lecture (48 hours total per quarter).*
A study in basic problem solving techniques in mechanics as a preparation for PHYS 4A.

### PHYS 77    Special Projects in Physics    1 Unit
### PHYS 77X    2 Units
### PHYS 77Y    3 Units
*Prerequisite: Consent of instructor and division dean.*
*Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).*
*Pass-No Pass (P-NP) course.*
This course involves individual special reading, writing, or study projects in Physics as determined in consultation with the instructor.

# Political Science

### POLI 1    American Government and Politics    5 Units
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in POLI 1H.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Five hours lecture (60 hours total per quarter).*
Critical examination of the contemporary and historical struggle for the development of democratic political institutions in the United States at the state, local, and national levels. Particular emphasis given to the conflict between disparate socioeconomic groups in the conduct of U.S. political life (e.g. traditional elites versus the historically (and currently) disenfranchised-- women, people of color, workers, immigrants, etc.) and the interrelationship among social equity, democracy and sustainable environmental conditions.

### POLI 1H    American Government and Politics -    5 Units
### HONORS
*(See general education pages for the requirement this course meets.)*
*(Not open to students with credit in POLI 1.)*
*(Admission into this course requires consent of the Honors Program Coordinator.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Five hours lecture (60 hours total per quarter).*
Critical examination of the contemporary and historical struggle for the development of democratic political institutions in the United States at the state, local, and national levels. Particular emphasis given to the conflict between disparate socioeconomic groups in the conduct of U.S. political life (e.g. traditional elites versus the historically (and currently) disenfranchised-- women, people of color, workers, immigrants, etc.) and the interrelationship among social equity, democracy and sustainable environmental conditions. As an honors course, the students will be expected to complete extra assignments to gain a deeper insight in American Government and Politics.

### POLI 2    Comparative Politics    4 Units
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
Comparative analysis of different kinds of political systems, including their history, political institutions, society, culture, economy, processes and policies, the environmental conditions in which they operate, and their consequences.

### POLI 3    International Relations    4 Units
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is a critical examination of the basic elements of contemporary international relations: scope, terminology, methodology, sovereignty, nationalism, national policies, globalization, power, international, and regional political systems. Students will discuss non-governmental organizations and issues such as human rights and the environment.

### POLI 5    Introduction to Political Thought    4 Units
### and Theory
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
A survey in the field of political theory including how to interpret, discuss, critique, debate and write about classical and contemporary political thought and theory. Both classic or traditional approaches as well as more current and contemporary paradigms specific to constituent groups traditionally excluded will be examined. Through this course of study, students will learn to think and discuss critically, about both classic and modern issues in politics (e.g., individual versus community rights, freedom, equality and distributional justice, environmental sustainability and generational equity, the "rights" of nature and non-human life, power, sovereignty and the state, etc.).

### POLI 10    Introduction to Administration of Justice    4 Units
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Also listed as ADMJ 1. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
An introduction to the characteristics of the criminal justice system in the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, response to crime, components of the system and current challenges to the system. Examines the evolution of the principles and approaches utilized by the justice system and the evolving forces which have shaped those principles and approaches. Although justice structure and process is examined in a cross-cultural context, an emphasis is placed on the US justice system, particularly the structure and function of US police, courts, and corrections. Students are introduced to the origins and development of criminal law, legal process, and sentencing and incarceration policies.

### POLI 11    Federal Courts and Constitutional Law    4 Units
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Also listed as ADMJ 11 and PARA 11. Students may enroll in only one department for credit.)*
*Four hours lecture (48 hours total per quarter).*
Federal court procedure and the impact of U.S. Constitutional law on federal and state law. Read and analyze the Constitution. Effect of U.S. Supreme Court cases on current constitutional interpretation.

### POLI 13    Concepts of Criminal Law (CP 2)    4 Units
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Also listed as ADMJ 3 and PARA 3. Students may enroll in only one department for credit.)*
*Four hours lecture (48 hours total per quarter).*

Historical development, philosophy of law and constitutional provisions; definitions, classification of crime, and their application to the system of administration of justice; legal research, study of case law, methodology, and concepts of law as a social force in a multicultural, multiethnic society.

**POLI 15 Grassroots Democracy: Race, Politics and the American Promise 4 Units**

*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as ICS 25. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
Applied and theoretical learning for students of social justice, this course will examine race, culture and contradictions in the ideal of the American Dream through a comparative analysis of American experiences of migration. Particular emphasis will be on the historical experiences of European immigrants, African Americans, Mexican Americans, and Asian Americans. The course will also discuss the contemporary social and cultural implications of the migration process. Using a multidisciplinary social science approach, attention will be given to issues of race, ethnicity, gender, class, and ecology as well as the role of the state (policy) to the process of migration and immigration.

**POLI 16 Grassroots Democracy: Social 4 Units Movements Since the 1960s**

*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as ICS 36. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
Applied and theoretical learning for students of social justice, this course is a comparative survey of protest movements since the 1960s. An introductory, comparative, and interdisciplinary study of Mexican American, African American, Asian American, and white working class social and political struggles from 1960 to the present. The course traces the development of protest movements in response to racial, class, gender, ecological and political inequality in the context of U.S. politics and history. The course critically examines the internal and external factors contributing to the rise and fall of social and political movements with special attention to the conjuncture of ecology, gender, race, ethnicity, culture, class, and sexual orientation in contemporary U.S. politics.

**POLI 17 Grassroots Democracy: Leadership 4 Units and Power**

*(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 (EWRT 1AS and EWRT 1AT) 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 4 Units and Power - HONORS**

*(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 (EWRT 1AS and EWRT 1AT) 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 60A Introduction to Community Organizing 4 Units**

*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as SOSC 60A. Students may enroll in either course, but not both, for credit.)*
*Four hours lecture (48 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 at an introductory level to become professional organizers, campus leaders, and effective citizen advocates. The introductory 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 60B Intermediate to Community Organizing 4 Units**

*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5; POLI 60A or SOSC 60A.*
*(Also listed as SOSC 60B. Students may enroll in either course, but not both, for credit.)*
*Four hours lecture (48 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 at an intermediate level 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 at an intermediate level. 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 60C Advanced to Community Organizing 4 Units**

*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5; POLI 60B or SOSC 60B.*
*(Also listed as SOSC 60C. Students may enroll in either course, but not both, for credit.)*
*Four hours lecture (48 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 at an advanced level 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 at an advanced level. 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 or POLI 1H.*
*Three hours laboratory per unit of supervised internship in an authorized office or agency (36 hours total for each unit of credit per quarter).*
This is a program of work experience and studies 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 4 Units Justice System**

*Advisory: EWRT 211 and READ 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 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: contracts, constitutional law, corporations, criminal law, family law, property, torts, wills and estates.

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

# P Psychology

**PSYC 1          General Psychology          4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course examines the factors influencing human behavior including biological and neurological basis of behavior, gender, life span development, cognition and consciousness, attention, sensation, perception, learning, memory, intelligence, motivation, emotion, stress, personality, psychological disorders and psychotherapy, social psychology, and applied psychology.

**PSYC 2          Experimental Methods in Psychology          6 Units
                  and Behavioral Science**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: PSYC 1; and PSYC 15, SOC 15, MATH 10 or MATH 10H.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Five hours lecture, three hours laboratory (96 hours total per quarter).*
Experimental methods in psychology and behavioral science. Basic experimental methods applied to learning, and behavior analysis using scientific methodology.

**PSYC 3          Human Experimental Psychology          6 Units
                  (An Introduction to Cognitive Science)**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5; PSYC 1.*
*Five hours lecture, three hours laboratory (96 hours total per quarter).*
This course is a survey of human experimental psychology and cognitive science with an 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course explores psychological disorders and treatments, past and present, emphasizing current paradigms for the purpose of understanding what constitutes abnormal behavior, how disorders are assessed, classified, diagnosed and treated. Cultural, social, biomedical, gender and age influences will be addressed.

**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 (EWRT 1AS and EWRT 1AT) or ESL 5; PSYC 1.*
*Four hours lecture (48 hours total per quarter).*
This course is a survey of major theories and concepts of personality. Topics 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This is a survey of humanistic, existential-phenomenological psychology and Eastern thought. The course is 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course explores 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          4 Units
                  and Normal Adjustment**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This is a survey of current theoretical and applied psychological knowledge relevant to personal/social relationships 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 ESL 272 and 273.*
*(Also listed as C D 10G. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
An introductory course that examines the major physical, psychosocial and cognitive/language developmental milestones for children, both typical and atypical, from conception through middle childhood. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages.
(This course meets NAEYC Standards 1 and 3; NBPTS Standards 1 and 4; and CEC Standards 1, 2 and 3.)

**PSYC 10H          Child Growth and Development          4 Units
                    (Middle Childhood and Adolescence)**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Also listed as C D 10H. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
An introductory course that examines the major physical, psychosocial and cognitive/language developmental milestones for children, both typical and atypical, from school age through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages.
(This course meets NAEYC Standards 1 and 3; NBPTS Standards 1 and 4; and CEC Standards 1, 2 and 3.)

**PSYC 12          Psychology of Gender          4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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).*
This course is an exploration of research and theory on gender in psychology, analyzing the biological, psychological, cultural and social factors and their origins.

**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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is an exploration of the biological, social, cognitive, and psychological aspects of human development and their interactions across the life span.

**PSYC 15          Statistics and Research Methods          4 Units
                  in Social Science**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: PSYC 1 or SOC 1; Intermediate Algebra (MATH 109 or MATH 114 or MATH 130) or equivalent.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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).*
This course examines elementary statistics including measures of central tendency, variability, probability, correlation, tests of significance, and hypothesis testing.

**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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course explores the biological processes that underlie our thoughts, feelings, and behaviors, with an emphasis on the genetic, neural, and chemical influences on such human concerns as addiction, emotional dysregulation, sleep, stress, neurological disorders, and sexual behavior. Some knowledge of biology is helpful.

**PSYC 51          Psychology of Wellness          4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 63          Sexual Assault, Police and          4 Units
                  Community Response**
*Advisory: EWRT 211 and READ 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).*
This course examines the societal and psychological aspects of sexual assault, the perpetrators and the victims, along with the 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 (EWRT 1AS and EWRT 1AT) 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).*
This course includes a program of work experience and study in psychology or human services under the supervision of the instructor and agency personnel.

**PSYC 74A**      **Interviewing, Interrogation and**      **4 Units**
                           **Crisis Intervention**
*Advisory: EWRT 211 and READ 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).*
This course examines the theories, principles, and strategies of tactical and interpersonal communication necessary to interview victims, witnesses, and suspects. Students will explore crisis intervention strategies for victims and witnesses of crime, along with 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 deanza.edu/assessment/steps - 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.

**READ 10**      **Academic Literacy**      **5 Units**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: Eligibility for college-level composition (EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT)) as determined by college assessment or other appropriate methods.*
*Five hours lecture (60 hours total per quarter).*
This course is post-secondary reading methods and strategies to develop and enhance critical thinking for academic, career and personal growth. Post-secondary reading is a recursive and intellectual development of comprehension, analysis, problem-solving, reflective judgment and interpretation skills in a range of challenging texts in multiple genres, including primary-source material from various cultural perspectives and across disciplines. The academic reading proficiencies acquired will enable students to engage as full participants in college, civic life and beyond.

**READ 70**      **Reading Across the Disciplines**      **1 Unit**
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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.*
*Requisite/Advisory: None.*
*Five hours lecture (60 hours total per quarter).*
*Pass-No Pass (P-NP) course.*
This course is an introduction to the everyday benefits of reading. Students will practice 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.*
*Requisite/Advisory: None.*
*Five hours lecture (60 hours total per quarter).*
*Pass-No Pass (P-NP) course.*

This course helps students to improve their ability to read independently and effectively in work, academic, and personal environments.

# Real Estate

**REST 50**      **Real Estate Principles**      **4 Units**
*Advisory: EWRT 211 and READ 211, or 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 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 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 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 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 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 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 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.

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## S Screenwriting

*(See Film and Television Production for course listings.)*

## Sign Language

**SIGN 1        Elementary American Sign Language        5 Units**
            **(First Quarter)**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
The course provides an introduction to American Sign Language including expressive and receptive sign, the manual alphabet, facial expression, and body gestures with emphasis is on conversational skills in functional situations.

**SIGN 2        Elementary American Sign Language        5 Units**
            **(Second Quarter)**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: SIGN 1 or equivalent.*
*Five hours lecture (60 hours total per quarter).*
This course builds on basic principles and vocabulary introduced in SIGN 1. Students will further develop skills including expressive and receptive sign, the manual alphabet, facial expression, and body gestures. An emphasis will be placed on conversational skills in functional situations, continued vocabulary and grammatical expression development, and the knowledge of Deaf culture and community.

**SIGN 3        Elementary American Sign Language        5 Units**
            **(Third Quarter)**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: SIGN 2 or equivalent.*
*Five hours lecture (60 hours total per quarter).*
This course expands vocabulary and grammatical skills, both receptive and expressive, using ASL I and II as a base. Students will further develop conversational skills in functional situations, and lead to an appreciation of Deaf culture and history.

## Skills

**SKIL 50        How to Succeed in an Online Class        1 Unit**
*Requisite/Advisory: None.*
*One hour lecture (12 hours total per quarter).*
Preparation and practice to succeed in fully- and partially-online classes. Self-assessment of readiness for online learning. Development of a personal plan for online success. Practice in the De Anza College Canvas course management system including participation in online communication, submission of assignments, and taking of online tests.

**SKIL 232        Adjunct Study Skills        1/2 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        1/2 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 60A        Introduction to Community Organizing        4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*(Also listed as POLI 60A. Students may enroll in either course, but not both, for credit.)*
*Four hours lecture (48 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 at an introductory level to become professional organizers, campus leaders, and effective citizen advocates. The introductory 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.)*

**SOSC 60B        Intermediate to Community Organizing        4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5; POLI 60A or SOSC 60A.*
*(Also listed as POLI 60B. Students may enroll in either course, but not both, for credit.)*
*Four hours lecture (48 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 at an intermediate level 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 at an intermediate level. 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.)*

**SOSC 60C        Advanced to Community Organizing        4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5; POLI 60B or SOSC 60B.*
*(Also listed as POLI 60C. Students may enroll in either course, but not both, for credit.)*
*Four hours lecture (48 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 at an advanced level 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 at an advanced level. 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.)*

**SOSC 80        Community Based Learning in Social        1/2 Unit**
            **Sciences - History**
**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, which analyzes that work from a historical perspective.

**SOSC 82        Community Based Learning in Social        1/2 Unit**
            **Sciences - Philosophical**
**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).*
Practical work with a community, business or civic institution and philosophical reflection on that activity.

**SOSC 83        Community Based Learning in Social        1/2 Unit**
            **Sciences - Sociological**
**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).*
Practical work with a community, business, or civic institution and sociological reflection on that activity.

# Sociology

**SOC 1 Introduction to Sociology 4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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. Explores important concepts in sociology, including culture, social structure, socialization, social institutions, social interaction, social inequality, intersectionality, collective behavior, and social change in human societies.

**SOC 5 Sociology of Globalization and 4 Units**
**Social Change**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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).*
An introduction to the sociological study of globalization and other forms of social change. Macrosociological analysis of economic, political, military, cultural, technological, and environmental aspects of globalization; history of globalization, European colonialism and decolonization processes; impact of multinational corporations and global political and financial institutions, and social movements from cross-cultural and global perspectives.

**SOC 14 The Process of Social Research 4 Units**
*(Formerly SOC 64.)*
*(See general education pages for the requirement this course meets.)*
*Prerequisite: SOC 1.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5; SOC 15, PSYC 15, MATH 10 or MATH 10H.*
*Four hours lecture (48 hours total per quarter).*
An examination of the application of the scientific method to understanding social phenomena. Explores important processes in social research including the selection and definition of problems of investigation, ethics in research, the relationship between theory and data, and quantitative and qualitative data-gathering and data analysis techniques.

**SOC 15 Statistics and Research 4 Units**
**Methods in Social Science**
*(See general education pages for the requirement this course meets.)*
*Prerequisite: PSYC 1 or SOC 1; Intermediate Algebra (MATH 109 or MATH 114 or MATH 130) or equivalent.*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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).*
This course examines elementary statistics including measures of central tendency, variability, probability, correlation, tests of significance, and hypothesis testing.

**SOC 20 Social Problems 4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
An exploration of sociological perspectives on contemporary social problems. 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 will be examined.

**SOC 28 Sociology of Gender 4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 the social construction of gender and on gender as an organizing principle of social life. Includes investigation of masculinities, femininities and trans identities, gender socialization, gender inequality, how gender is shaped by race, class, nation and sexuality, and the family, media, education, economics, politics and religion as gendered institutions, from a cross-cultural and global perspective.

**SOC 29 Sociology of Structural Racism in 4 Units**
**the United States**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
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.

**SOC 35 Marriage, Family, and Intimate 4 Units**
**Relationships**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
A sociological investigation and analysis of the diversity of family structures and intimate relationships in society. Topics to be explored include the history of the family, gender socialization and inequality, dating, divorce and remarriage, gay and lesbian relationships, the family as an economic unit, communication and conflict resolution, sexuality, interracial relationships, and domestic violence.

**SOC 51 Women in Crime 4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Also listed as ADMJ 51. Students may enroll in either department, but not both, for credit.)*
*Four hours lecture (48 hours total per quarter).*
An examination of the changing role of women in crime with emphasis on gender and cultural based differences related to victims, offenders and criminal justice professionals.

**SOC 54 Youth and the Law 4 Units**
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*(Also listed as ADMJ 54 and PARA 54. Students may enroll in only one department for credit.)*
*Four hours lecture (48 hours total per quarter).*
A legal and sociological approach to understanding the causes of juvenile delinquency; an examination of race, culture, and gender in juvenile delinquency; community responses to delinquency; organization, functions, and jurisdiction of both social and legal agencies; processing and detention; case disposition; statutes and court procedures.

**SOC 73 Crime and Criminology 4 Units**
*Advisory: EWRT 211 and READ 211, or 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).*
This course introduces the major types of crime and criminal behavior, examining demographics and measurement of crime, theories of causation and victimization, crime prevention, and crime control.

**SOC 77X Special Projects in Sociology 2 Units**
**SOC 77Y 3 Units**
*Prerequisite: Consent of instructor and division dean.*
*Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).*
Individual and/or group projects in sociology that deal with one or more aspects in the field of sociology.

**SOC 97A The Art of Protest - FYE, Puente 1 Unit**
**and Umoja**
*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 1 Unit**
**and Umoja**
*Corequisite: Student 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.

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

# Spancol

# 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course is an introduction to the language and cultures of Spanish-speaking world areas and Spanish is the primary language of instruction. 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. 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course focuses on the 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 a continued presence 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course will examine the 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. Greater structural accuracy and communicative competence within the framework of language as a fundamental aspect of culture is the focus of the course. 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course focuses on the readings and discussions of texts dealing with the literature, arts, culture, history, and geography of the Spanish-speaking world. Students will review and expand on the structures, grammatical features and linguistic functions of elementary Spanish and will develop their 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course focuses on the readings and discussions of texts dealing with the literature, arts, culture, history, and geography of the Spanish-speaking world. Students will review and expand on the structures, grammatical features and linguistic functions of SPAN 4 and will develop their 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 ESL 272 and 273.*
*Five hours lecture (60 hours total per quarter).*
This course focuses on the readings and discussions of texts dealing with the literature, arts, culture, history, and geography of the Spanish-speaking world. Students will review and expand on the structures, grammatical features and linguistic functions of SPAN 5 and will develop their reading, writing, speaking and listening skills at the third intermediate-level within the framework of language as a fundamental expression of culture.

# Special Education

*(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 ESL 272 and 273.*
*Four hours lecture (48 hours total per quarter).*
This is an introduction to theatre from an audience perspective. Students will examine elements of dramatic art form and play production, including dramatic theory, language, space, plot, characterization, technical theatre, acting, directing, playwriting, design, and the relationship with other art forms. The course includes drama written from diverse cultural and historical perspectives. Attendance at assigned performances required.

### THEA 20A     Theory and Technique of Acting     4 Units
                            (Introduction)
*Advisory: EWRT 211 and READ 211, or ESL 272 and 273.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
This course examines the basic theory and techniques of acting, along with the actor's range of choices within the framework of scenarios and improvisation. Students will conduct a beginning analysis of acting styles and methods from diverse cultural and historical perspectives.

### THEA 20B     Theory and Technique of Acting     4 Units
                            (Modern Period)
*Prerequisite: THEA 20A.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
This course is 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     4 Units
                            (Classic Period)
*Prerequisite: THEA 20A.*
*Advisory: THEA 20B.*
*Three hours lecture, three hours laboratory (72 hours total per quarter).*
This is 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     4 Units
                            the Camera
*Advisory: EWRT 211 and READ 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, recorded and critiqued.

### THEA 80B     Theory and Technique of Advanced     4 Units
                            Acting for the Camera
*Prerequisite: THEA 80A.*
*Advisory: EWRT 211 and READ 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: green 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.

# User Interface Design

*(See Art for course listings.)*

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

V
W

# 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 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 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.)0*
*Prerequisite: VIET 2 (equivalent to two years of high school Vietnamese) or equivalent.*
*Advisory: EWRT 211 and READ 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 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 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 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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).*
This course examines the history of women in relation to society and the visual arts from prehistory to the present, across a range of cultures. Obstacles faced by women artists are explored, as well as contributions made by women artists, and art 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is 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. The 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 (EWRT 1AS and EWRT 1AT) 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).*
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.

## 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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).*
This course is an exploration of research and theory on gender in psychology, analyzing the biological, psychological, cultural and social factors and their origins.

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

**W**

**WMST 21        Women in Literature                    4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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).*
This is an intensive study of representative literary works by or about women including an analysis of different historical, cultural, and critical perspectives.

**WMST 22        Asian American Pacific Islander Women    4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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           4 Units
                Perspectives**
*(See general education pages for the requirements this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is an interdisciplinary, multi-perspective, critical analysis, and comparative study of Black Feminism. Students will examine some of the key theories and ideas of Black Feminism and Black Feminist Thought, including womanist theory, the theory of intersectionality, and standpoint theory. The course 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This course is an introduction to the study of Latinas in American society from a 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 (EWRT 1AS and EWRT 1AT) or ESL 5.*
*Four hours lecture (48 hours total per quarter).*
This is an interdisciplinary study in gendered violence through an analysis of violence against women, in particular, and the examination of power relations related to race/ethnicity, class, sexuality, gender presentation, and nationality. The course includes an exploration of collective resistance to violence and social movement discourses surrounding these issues, in addition to its impact upon U.S. civic life, as well as globally.

**WMST 28        Sociology of Gender                   4 Units**
*(See general education pages for the requirement this course meets.)*
*Advisory: EWRT 1A or EWRT 1AH or (EWRT 1AS and EWRT 1AT) 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 the social construction of gender and on gender as an organizing principle of social life. Includes investigation of masculinities, femininities and trans identities, 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 (EWRT 1AS and EWRT 1AT) 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 AND ADMINISTRATORS

## FACULTY

**ACEVEDO-AVILA, VERONICA** 1995
English
B.A., University of California,
Santa Cruz
M.A., Santa Clara University

**ALAMEER, ABEER** 2019
Computer Information Systems
B.S., Amman University
M.S., San José State University

**ALEXANDER, ROBERT** 2009
Counseling
B.A., San Francisco State University
M.A., St. Mary's College

**ALTMAN, DANIELLE** 2010
Physical Education
B.A., University of Redlands
M.A., California State University,
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**ALVES DE LIMA, DIANA** 1996
Student Success Center
B.A., University of California, Berkeley
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**ANDERSON, STEPHANIE** 2017
Communication Studies
B.A., M.A., San José State University

**ANNEN, VICKIE** 1997
Biology
B.A., Florida Atlanta University
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**APPIO, MICHAEL** 2006
Design and Manufacturing
Technologies
A.A., De Anza College

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B.A., San Diego State University
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**ARGYRIOU, ANNE** 2000
English
B.A., University of California,
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M.Phil., University of Cambridge

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Articulation Officer/
Transfer Services Coordinator
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Philosophy
B.A., Metro State College of Denver
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Mathematics
B.A., University of North Carolina
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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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**BOARD LILJENSTOLPE, REBECCA** 1997
English
B.A., M.A., California Polytechnic
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**BONILLA, MARYALICE** 2006
English
B.A., M.A., California State University,
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B.A., California State University,
Fullerton
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**BORDIGNON, GUIDO** 2016
Biology
B.S., M.S., Pharm D., University of
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Ph.D., University of Ca' Foscari
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**BOTSFORD, LYDIA** 2007
Accounting
B.A., University of California,
Santa Cruz
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**BOURGEOIS, MARY JOY** 1990
Child Development and Education
B.A., University of Guam

**BOURGOUB, HASSAN** 1999
Mathematics
B.S., M.S., California State University,
Los Angeles

**BRAM, JASON** 2010
Biology
B.A., University of California,
San Diego
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Northridge

**BREITER, SALAMANDER** 2001
Humanities
B.A., Fairhaven College
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**BROPHY, MEGAN** 2017
Chemistry
B.A., Reed College
Ph.D., Massachusetts Institute of
Technology

**CADGE-MOORE, CATIE** 1999
Art History
B.A., State University of New York,
Binghamton
M.A., University of Washington
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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
University

**CAROBUS, PATRICIA** 2016
English as a Second Language
B.A., University of Londrina
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**CASTRO, ELISA** 2017
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B.A., University of California,
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**CHAI, CHRISTINE** 2002
English as a Second Language
B.A., B.S., University of California,
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**CHANG, LENA** 2000
Library
B.A., San Francisco State University
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**CHIVERS, NICHOLAS** 2017
Communication Studies
B.A., M.A, San Francisco State
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**CHOW, KAREN** 2002
English
B.S., University of Southern California
M.A., Ph.D., University of California,
Santa Barbara

**CICHANSKI, MAREK** 1998
Geology
B.S., University of Washington
M.S., Swinburne University
Ph.D., University of Southern
California

**CINI, CAROL** 2001
History
B.A., Stanford University
M.A., San Francisco State University
Ph.D., University of California,
Los Angeles

**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
M.A., Ph.D., University of California,
Santa Barbara

**COZZENS, SHERRI** 1996
Nursing
B.S.N., M.S., San José State
University

**CRUZ, MAYRA** 2000
Child Development and Education
B.A., University of Puerto Rico
M.A., San José State University

**CUFF-ALVARADO, JUDY** 1996
Biology
B.S., Ithaca College
M.S., Long Island University

**CUTUIZA, RACHEL** 2007
Physical Education
B.S., M.S., Virginia Polytechnic
Institute and State University

**DAHLKE, BARBARA** 2007
Counseling
B.S., University of California,
San Diego
M.S., Colorado State University
M.A., San José State University

**DAMJANOVIC, JASON** 2006
Physical Education
B.A., Sonoma State University
M.A., National University

**DECK, CECILIA** 2012
Journalism
B.A. University of Windsor
M.A., McMaster University
M.A., Santa Clara University

**DELANEY, ANTHONY** 2007
English
B.A., University of Oregon
M.A., University of California,
Berkeley

**DELGADO, RICARDO** 2016
Mathematics
B.A., M.S., University of Colorado

**DEMING, CHRISTOPHER** 2018
Chemistry
B.S., M.S., Ph.D., University of
California, Santa Cruz

**DENNY, DAVID** 1990
English
B.A., California State University,
Long Beach
M.A., University of Oregon

**DESILETS, LENORE** 1993
Mathematics
B.A., University of California,
Los Angeles
M.S., University of Maryland

**DE TORO, ALICIA** 2010
Environmental Studies
B.S., M.S., University of California,
Santa Barbara

**DEY, TERESA** 2017
Film/TV
B.A., University of Maryland,
College Park
M.F.A, University of Southern
California

**DHALIWAL, HARMAN** 2006
Mathematics
B.S., San José State University
M.S., Ohio State University

**DIAZ, MARY** 2017
Nursing
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Geology
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Ph.D., University of California,
Santa Cruz

**DOLEN, THOMAS** 2002
Library
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MPIA, University of California,
San Diego
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Music
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**EMANUEL, LEEANN** 2010
Disability Support Services
B.A., University of California,
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Geography
B.S., University of Calcutta
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**FIELDS, SHELDON** 2020
Outreach
B.A., San Francisco State University
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**FIRMENDER, WILLIAM** 2019
Psychological Services
B.A., New York University
M.A., Palo Alto University
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**FLEMING, DIANA** 2000
English
B.A., Mills College
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Communication Studies
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Monterey Bay

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**GARBACEA, DELIA** 1998
Computer Information Systems
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MBA, Harvard University
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Ph.D, North Central University

**GARCIA, ALMA** 2018
Math Performance Success
B.A., San José State University
M.A., M.S., San José State University

**GEORGIOU, SPERANTA** 2018
Computer Information Systems
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MBA, Santa Clara University

**GERAGHTY, MAURICE** 2002
Mathematics
B.A., University of California, Berkeley
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**GIARDINO, ALEXANDRIA** 2006
English
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MFA, University of Southern Maine/
Stonecoast

**GLAPION, KEVIN** 2001
Disability Support Programs and
Services
B.A., University of New Orleans
M.S., Loyola University

**GLASMAN, ILAN** 2008
Music
B.A., University of California,
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M.A., San José State University
D.M.A., University of Southern
California

**GOEL, MANISH** 2014
Computer Information Systems
B.E., Indian Institute
M.A., University of Miami
M.S., Northern Illinois University

**GONZALEZ YUEN, NICKY** 1992
Political Science
B.A., Carleton College
Ph.D., J.D., University of California,
Berkeley

**GORDON, LAUREN** 2018
English
B.A., California State University,
Northridge
M.A., San Francisco State University

**GRAY, DAVID** 1999
Chemistry
B.A., Rice University
Ph.D., University of California, Berkeley

**GREENE, VALERIE** 2016
Environmental Studies
B.S., M.S., San Francisco State
University

**GROZEVA, MILENA** 2014
Film/TV
B.A., Harvard University
MFA, University of Texas, Austin

**GUEVARA, DAWNIS** 2001
Physical Education
B.A., M.,A., San José State University
M.A., St. Mary's College

**GUITRON, PATRICIA** 2001
Counseling
B.A., M.S., San Francisco State
University

**HALWANI, ESTHER** 2008
Disability Support Programs and
Services
B.A., Sonoma State University
M.S., San Francisco State University

**HASSETT, SHANNON** 2007
Psychology
B.A., California State University,
Fullerton
M.A., California State University,
Long Beach

**HEALY, MARK** (2012
Psychology
B.A., University of California,
Santa Cruz
M.A., University of Akron

**HEARN, LYDIA** 2000
English
B.A., M.A., University of California,
Santa Barbara

**HERNANDO, HERMINIO** 2001
Counseling
B.A., University of Hawaii
M.A., New York University

**HERTLER, D. SCOTT** 2002
Physical Education
B.S., San José State University
M.A., St. Mary's College

**HEYER, BRUCE** 2006
Biology
B.S., University of California, Davis
M.A., San Francisco State University

**HONG, RUSSELL** 2010
Communication Studies
B.A., University of California, Los
Angeles
M.A., San José State University

**HOWLAND, STEPHEN** 2006
English
B.A., University of California, Berkeley
M.A., San Francisco State University

**HRYCYK, CATHERINE** 2000
Nursing
B.A., University of Winnipeg
B.S.N., University of Saskatchewan
M.Sc.N., University of Western
Ontario

**HUBBARD, JUDITH A.** 1991
English
Ph.B., Grand Valley State College
M.A., San Francisco State University

**HUGHES, JULIE** 2018
Art
B.A., M.F.A., California State
University, Northridge

**HUGHES, MELINDA** 1999
Extended Opportunities Programs
and Services
B.A., California State University,
Long Beach
M.A., San José State University
Ed.D., Argosy University

**HUI, CECILIA** 2011
Library
B.A., M.S., McGill University

**HUYNH, KY-DUYEN** 1975
Counseling
B.A., M.A., San José State University

**INOUE, BETTY** 2017
Counseling
B.A. University of California, Riverside
M.A., Santa Clara University

**ISON, MILLIA** 1990
Mathematics
B.S., Shanghai Teachers College
M.A., State University of New York

**JIMENEZ-SAMAYOA, ELSA** 2020
Biology
B.S., University of California,
Santa Cruz
M.S., University of California,
Berkeley

**JOHNSON, MARK (RUSTY)** 2017
Physical Education
B.S., Santa Clara University
M.A., Fresno Pacific University

**JOPLIN, NATASHA** 2001
Counseling
B.S., Fisk University
M.S., University of LaVerne

**JOSEPH, JAMIE** 2014
English
B.A., University of Nebraska, Lincoln
M.A., San Francisco State University

**JUDSON, ZACHARY** 2011
Mathematics
B.S., University of California,
Los Angeles
Ph.D., University of California
Berkeley

**KALPIN, ROBERT** 2018
Biology
B.S., M.S., University of California,
Santa Cruz

**KANG'A, SIMON** 2012
Biology
B.S., M.S., Ph.D., Kenyatta University

**KARIA, MANISHA** 2016
Business
B.S., Bharathiar University
M.S., Massey University
Ph.D., University of Technology

**KAUFMAN, CYNTHIA** 1991
Philosophy/VIDA
B.A., University of California, Berkeley
M.A., Ph.D., University of
Massachusetts

**KAUR, SHAGUNDEEP** 2009
Communication Studies
B.Sc., M.A., Punjab University
M.A., San Francisco State University

**KEIFFER-LEWIS, VERONICA** 2012
Intercultural Studies
B.A., San José State University
M.A., Ph.D., Mills College

**KELLY, DENICA** 2016
International Student Programs
B.A., California State University,
Northridge
M.S., California Lutheran University

**KESSLER, CYNTHIA** 2000
Child Development Center
B.A., Pacific Oaks College

**KHANNA, ANU** 2000
Communication Studies/Intercultural
Studies
B.A., University of Illinois
M.A., University of Wisconsin,
Milwaukee
Ph.D., Arizona State University

**KHOSRAVI, MEHRDAD** 2008
Mathematics
B.S., M.S., Ph.D.,
University of Central Florida

**KLINGMAN, PAUL** 2000
Design and Manufacturing
Technologies
B.S., M.A., Pacific Montana University

**KRAGALOTT, ARDEN** 2004
Physical Education
B.A., Ohio Wesleyan University
M.A., Ohio State University

**KRAMER, ALEX** 2004
Communication Studies
A.A., De Anza College
B.A., San José State University

**KRESTAS, GEORGE V.** 1989
Engineering
B.S., San José State University
M.S., Santa Clara University

**KWAK, CHRISTOPHER** 2000
Accounting
B.A., Korea University
B.S., California State University,
East Bay
MBA, Golden Gate University

**LAKSHMANAN, SRIDEVI** 2016
Disability Support Programs and
Services
B.A, Madras University
B.A., Bangalore University
M.A., San Francisco State University

**LAM, CLARA YIN PING** 1991
English
B.S., The Chinese University of Shatin
M.Ed., Ed.D., University of Georgia

**LEE, CHARLES** 2002
English as a Second Language
B.A., Hebei University
M.A., San Francisco State University

**LEE, MAE** 2003
Asian and Asian American Studies
B.A., M.A., Stanford University
M.A., Ph.D., University of California,
Santa Cruz

# FACULTY

**LEONARD, AMY**  2012
English
B.A., San José State University
M.A., San Francisco State University

**LEW, ESTHER**  2004
Child Development Center
B.A., San Francisco State University

**LEWIS, JULIE**  2011
African American Studies
B.A., San Francisco State University
M.A., San Francisco State University

**LEWYCKY, JONATHON (ROCKY)**  2012
Art
B.A., San Diego State University
M.F.A., University of Southern
Carolina

**LIBOVA, OLGA**  2006
Nursing
B.S., University of Moscow
M.S., State University of New York

**LIEN, AMANDA**  2015
Mathematics
B.A., University of California, Berkeley
M.S., California State University,
East Bay

**LILLY, BYRON**  2000
Business
B.A., M.A., MBA, University of
California, Berkeley

**LIMCOLIOC, LUIS**  1996
English
B.S., University of Notre Dame
M.A., San Francisco State University

**LISHA, SARAH**  2013
English
B.A., University of California,
Santa Cruz
M.A., San Francisco State University

**LIU, HUA-FU**  2007
Mandarin
B.A., National Tsing Hua University
M.S., Radford University

**LIZZARDI-FOLLEY, CARMEN**  2000
Spanish
B.A., University of Puerto Rico
M.A., Ph.D., Cornell University

**LO, BERTRAND**  2006
Mathematics
B.A., University of California, Berkeley
M.S., Harvard University

**LOPEZ, RICHARD**  1998
Mathematics
B.S., University of California, Davis
M.A., California State University,
Sacramento

**LUCAS, WARREN R.**  1991
Dance
B.A., North Carolina School of Arts
M.A., University of California,
Los Angeles

**LUNA, EDUARDO**  1999
Physics
B.S., M.S., California State University,
Fresno

**LUNDSTROM, KELLY**  2019
Mathematics
B.S., Shippersburg University
M.S., Colorado School of Mines

**MADRIGAL, LOUISEANN**  2016
Physical Education
B.A., California State University,
East Bay
M.A., California Polytechnic State
University

**MAGNIN, CHRISTINE**  2008
Disability Support Programs and
Services
B.S., Trenton State College
M.A., San José State University

**MAILHOT, JAMES**  2011
Mathematics
B.S., Stanford University
M.S., Stanford University
Ph.D., University of Washington

**MALEK, NINOS**  2014
Economics
B.A., M.A., San José State University
Ph.D., George Mason University

**MALONE, BRIAN**  2016
English
B.A., Harvard University
M.A., University of Virginia
Ph.D., University of California,
Santa Cruz

**MAR, BRENDAN**  2018
Chemistry
B.S., University of California, Irvine
M.S., San José State University

**MARIN, MARIA**  2002
English as a Second Language
B.S., Biola University
M.A., San Francisco State University

**MARKUS, LISA**  1998
Mathematics
B.S., University of Sheffield
M.S., Santa Clara University
M.S., Ph.D., Vanderbilt University

**MARQUEZ, MARCO**  2013
Graphic Design
B.A., Santa Clara University
M.A., New York School of Visual Art

**MATTIS, NICHOLAS**  2010
Physical Education
B.A., Saint Ambrose University
M.S., Western Illinois University

**MATURINO, MELISSA**  2017
Math Performance Success
B.S., Santa Clara University
M.A., San José State University

**MAYNARD, RICK**  2004
Automotive Technology
A.A., Chabot College

**MCCAULEY, BRIAN**  1998
Biology
B.A., University of California,
Santa Cruz
Ph.D., University of Hawaii

**MCPARTLAN, ELIZABETH**  1997
Biology
B.A., M.S., San Francisco State
University

**MELENDEZ, BIANCA**  2020
Disability Support Services
B.A., San José State University
M.A., San José State University

**MELLO, KEITH**  2014
Accounting
B.S., Santa Clara University,
CPA

**MELLO, KEVIN**  2009
Accounting
B.S., Santa Clara University
MBA, Arizona State University

**MESH, LISA**  2016
Mathematics
B.S, St. Mary's College
MBA, University of Notre Dame
M.S., Southern Methodist University

**MILLER, ANNA**  2004
Nutrition
B.S., University of California, Davis
M.S., Pennsylvania State University

**MIRAMONTES, MAUREEN**  2012
Nursing
A.A., Excelsior College

**MISKIN, PREDRAG (PETER)**  2013
Nursing
B.S., University of British Columbia
MA., University of Phoenix
Ph.D., A.T. Still University

**MJELDE, ELIZABETH**  1993
Art History
B.A., California State University,
Long Beach
M.A., University of California,
Santa Barbara
Ph.D., University of North Dakota

**MOEN, LORRAINE**  2001
Mathematics
B.A., California Polytechnic State
University
M.S., California State University,
East Bay

**MORALES, JORGE**  2015
First Year Experience
B.A., University of California, Berkeley
M.A., San José State University

**MOSH, FARSHOD**  2000
Mathematics
M.S., University of Iran

**MUJAL, CARLOS**  2001
History
B.S., University of California,
San Francisco
B.A., San Francisco State University
M.A. University of California, Berkeley

**MULLENS, TERRENCE**  2016
Meteorology
B.S., California State University,
Long Beach
M.S., San José State University

**MUZZI, CINZIA**  2004
Chemistry
B.S., B.A., Ph.D., University of
California, Davis

**MYHRE, JENNIFER**  2000
Sociology
M.A., Ph.D., University of California,
Davis

**NAVA, STEVE**  2016
Sociology
B.A., M.S., University of Texas,
San Antonio
M.A., Ph.D., University of California,
Santa Cruz

**NEWTON, DAVID**  1987
Physics
B.A., Sonoma State University
B.A., M.S., San Francisco State
University

**NGUYEN, ANH KHOA**  2017
Math Performance Success
B.S., California Polytechnic State
University
M.A., Santa Clara Unversity

**NGUYEN, ANNA**  2019
Outreach
B.A., University of California,
Santa Barbara
M.S., San Francisco State University

**NGUYEN, HONG (TOM)**  2012
Biological, Health and Environmental
Sciences
B.A., University of California, Berkeley
M.A., St. Mary's College

**NGUYEN, JAMES**  2013
Political Science
B.A., University of California, Berkeley
J.D., Santa Clara University

**NGUYEN, UYEN (CLARE)**  1999
Computer Information Systems
B.S., M.S., University of California,
Davis

**NICKLAS, HANNAH**  2014
Nursing
A.A., Brigham Young University
M.S., Walden University

**NJINIMBAM, EDWIN N.**  1991
Mathematics
B.S., Cuttington University
M.S., Georgia Technical College

**NORMAN, CRAIG**  2007
English as a Second Language
B.A., California Lutheran University
M.A., San Francisco State University
Ph.D., San Diego State University

**OLDHAM, IRA**  1999
Computer Information Systems
B.A., M.A., Oklahoma University M.S.
Ph.D., Carnegie Mellon University

**OSBORNE, SCOTT**  2004
Accounting
B.A., University of California, Berkeley
MBA, Golden Gate University

**OWIESNY, CHERYL**  1999
Physical Education
B.A., California State University, Chico
M.A., San José State University

**PALMORE, KIM**  2012
English
B.A., M.A., California State University,
Long Beach
Ph.D., University of California,
Riverside

**PANG, HELEN**  2016
Career Services
B.A., B.S., University of California,
San Diego
M.S., San Francisco State University

**PAPE, MARY**  1998
Computer Science
B.S., Santa Clara University
MBA, Capella University

**PARRISH, JENNIFER**  2015
Computer Information Systems
B.A., Santa Clara University,
MBA, Monterey Institute of
International Studies
M.S., University of California,
Santa Cruz

**PATEL, CATHY**  2018
Disability Support Programs and
Services
B.A., University of California, Riverside
M.S., National University

**PESANO, JULIE**  2005
English
B.A., M.A., University of Florida

**QUIGLEY, JILL**  2002
English
B.A., William Smith College
M.A., Boston College

**QUINN, ROSEANNE**  2010
English
B.A, University of California, Davis
M.A., Sussex University
Ph.D., University of Iowa

**QUINTERO, JESUS**  2007
English
B.A., San Francisco State University
M.F.A., University of San Francisco

**RASHID, NAHRIN**  2016
Mathematics
B.S., California State University,
Stanislaus
M.S., California State University,
East Bay

**REBER, MARIETTA**  2002
English
B.A., M.A., Brigham Young University

**REGEHR, GORDON (CASEY)**  2017
Adapted Physical Education
B.A., Whittier College
M.A., California State University,
Chico

**RIVERA, LILIANA**  2019
Puente Project
B.A., University of California, Davis
M.S., San Francisco State University

**ROBERTS, BECKY** 2002
English
B.A., M.A., University of California,
San Diego
Ph.D., University of California,
Santa Cruz

**RODRIGUEZ, CHRISTIAN** 2019
Language Arts
B.A., University of California,
Santa Cruz
M.A., San José State University

**RODRIGUEZ, EUGENE** 1997
Visual Arts
B.A., San Francisco State University
M.F.A., Mills College

**ROEDER, WILLIAM** 2016
Environmental Studies
B.S., California State University, Chico

**ROY, JAYANTI TAMBE** 2017
Child Development and Education
B.A., M.A., Pacific Oaks College

**RUELAS, JESUS** 2019
Outreach
B.A., University of California,
Santa Cruz
M.A., San José State University

**SAECHAO, CHAI** 2019
Outreach
B.S., University of California, Berkeley
M.S., San Francisco State University

**SALAH, DAN** 2001
Business
B.A, University of California, Berkeley
MBA, University of Pennsylvania

**SALES, EDWARD** 2020
Nursing
B.S., University of Phoenix
M.S., University of San Francisco

**SARTWELL, JULIE** 2000
English
B.A., California Polytechnic State
University
M.A. San Francisco State University

**SHEIRICH, MONICA** 1997
Disability Support Programs and
Services
B.A., M.A., San Francisco State
University

**SHERBY, MARK** 1996
Computer Information Systems
B.A., Stanford University
M.A., San José State University

**SHI, KEJIAN** 1998
Mathematics
B.S., Sichuan Teacher's University
M.S., Michigan State University,
East Lansing
Ph.D., University of California, Davis

**SHIVELY, TIM** 2000
English
B.A., Old Dominion University
M.A., San Francisco State University

**SIMES, ALAN D.** 1989
English
B.A., Santa Clara University
M.A., University of Virginia

**SINGH, KULWANT** 1990
Physical Education
B.S., M.S., California State University,
East Bay

**SINGH, RAVJEET** 2011
Economics
B.A., M.A., University of Delhi
Ph.D., Jawaharial Nehru University

**SINGH, SUKHJIT** 2001
Computer Information Systems
B.S., M.S., California State University,
East Bay
M.S., Carnegie Mellon University

**SKAGER, KRISTIN** 1999
English
B.A., Humboldt State University
M.A., San Francisco State University

**SPANGGORD, DORIS** 1996
Biology
B.S., San Francisco State University
M.S., San José State University

**SPENCER, SANDRA** 1997
Business
B.A., University of California, Berkeley
M.A., California State University,
East Bay

**STAUDINGER, JEFFERY** 2010
Environmental Studies
B.S., Virginia Polytechnic Institute
and State University
M.S., Stanford University
M.S., University of Michigan

**STOCKWELL, ROBERT** 2007
Political Science
B.A., University of California,
San Diego
M.A., New School for Social Research
Ph.D., University of California, Irvine

**STODDARD, ANDREW** 2016
Design and Manufacturing
Technologies
A.S., De Anza College

**SUITS, JAMES** 2013
Administration of Justice
B.A., San José State University
M.P.A, Golden Gate University

**SULLIVAN, MARY** 2006
Student Health Services
B.S., University of Delaware
M.S., San José State University

**SUN, LI WEI** 2007
Child Development and Education
B.A., Fu-Jen Catholic University
M.A., New York University
Ed.D., Teacher's College

**SWANNER, ALEXANDER** 2006
Library
B.A., University of California,
Santa Cruz
M.L.S., San José State University

**TAPIA, MARISTELLA** 2004
Sociology
M.A., University of California,
Berkeley

**TAVERNETTI, SUSAN** 2001
Film/Television
B.A., University of the Pacific
M.A., University of Southern
California

**TAYLOR, RODERIC** 2016
Mathematics
B.A., University of California,
Santa Cruz
M.S., University of California, Berkeley

**TEPPANG, NOEMI** 2016
International Student Programs
B.A., M.S.W., San José State
University

**THOMAS, MONIKA** 2012
Economics
B.A., M.A., University of California,
Santa Cruz

**TIWANA, AMEETA** 2004
Anthropology
M.A., Ph.D., Southern Illinois University

**TRACEY, IVA** 2015
English as a Second Language
M.A., University of Presov

**TRAN, DANNY** 2011
Mathematics
B.A., University of California, Berkeley
M.E., Harvard University

**TRUONG, LAN** 2020
Veteran Services
B.A., University of California,
Santa Barbara
M.S., California State University,
Long Beach

**TU, DAWN LEE** 2017
Professional Development
B.A., University of California, Davis
M.A., New York University
Ph.D., University of California, Davis

**VARGAS, NELLIE** 2007
Child Development and Education
B.S., Catholic University
M.S., University of Wisconsin
Ed.D, Argosy University

**VAZIFDAR, ANITA** 2017
Disability Support Programs and
Services
B.A., University of Wisconsin, Madison
M.S., University of Southern
California

**VERNAZZA, LAWRENCE (PETE)** 1998
Automotive Technology
A.A., De Anza College

**VILAUBI, FELISA** 2017
Language Arts
B.A., University of California, Irvine
M.A. San José State University

**VINALL, KIMBERLY** 2015
International Studies
B.A., Indiana University
M.A., University of Arizona
Ph.D., University of California,
Berkeley

**WALTON, JOHN** 2004
Automotive Technology
A.A., Cosumnes River College

**WANG, AMY** 2019
IMPACT AAPI
B.A., San Francisco State University
M.S., San Francisco State University

**WEBER, JANET** 2020
Counseling
B.A., University of California,
Santa Cruz
M.S., San José State University

**WEISNER, KEN** 2000
English
B.S., M.F.A., Ph.D., University of
California, Santa Cruz

**WETHINGTON, PAULINE** 2007
Counseling
B.A., M.A., San José State University

**WHITE, WENDY** 2004
Humanities
B.A., California State University,
Dominguez Hills
Ph.D., University of California,
Santa Cruz

**WILLIAMS, PATRICIA** 1990
Nursing
B.S., Montana State University
M.S., University of California,
San Francisco

**WILSON, JULIE** 2016
English
B.A., University of California, Berkeley
M.Ed., Howard University
Ph.D., Stanford University

**WISHART, WILLIAM** 2016
Automotive Technology
B.A., California State University, Chico

**WOO, SHIREEN LUNA** 2000
Counseling
B.A., California State University,
East Bay
M.A., San José State University

**WOODBURY, ERIK** 2012
Chemistry
B.A., Bowdoin College
Ph.D., University of California, Davis

**YEE, LINDA** 2007
English as a Second Language
B.A., M.A., University of California,
Los Angeles

**YI-BAKER, HYON CHU** 2018
College Life
B.A., Western Washington University
M.A., Colorado State University
Ph.D., San José State University

**YOES, SUSAN** 2000
English
B.A., University of San Francisco
M.A., San Francisco State University

# ADMINISTRATORS

**BALDUCCI, LAUREEN** 2019
Dean, Counseling and Disability
Support Programs and Services
A.A., Cazenovia College
B.A., Alfred University
M.S., State University of New York
at Oneonta

**BLISS, SAM** 2016
Dean, Community Education
B.A., Princeton University
M.A., Santa Clara University

**BRYANT, RANDY** 2001
Dean, Career Technical Education and
Workforce Development
A.S., College of the Air Force
B.A., American Military University
M.A., Eastern New Mexico University

**CAMPBELL, YVETTE** 2016
Director, STEM Success Program
B.A., M.S., San Francisco State
University
Ph.D., University of California,
Santa Cruz

**CORTEZ, ALICIA** 1990
Dean, Equity and Engagement
B.A., Saint Mary's College
M.S.W., University of California,
Berkeley
M.A., San José State University

**DASILVA, EMANUEL** 2007
Manager, Operations
B.S., Palo Alto University

**ESPINOSA-PIEB, CHRISTINA G.** 1982
Vice President, Instruction
B.S., University of Phoenix
M.A., University of San Francisco

**FAYEK, MOATY** 2012
Dean, Business, Computer Science
and Applied Technologies
B.S., Cairo University
M.S., California State University, Chico
Ed.D., Ferris State University

**GALOYAN, NAZY** 2018
Dean, Enrollment Services
A.A., Foothill College
B.S., San Francisco State University
M.A., San José State University

**GANNON, PATRICK** 2002
Director, Campus Center
Culinary Degree, Hospitality and
Administration, Dublin College of
Catering
B.S., Palo Alto University

**GREY, PAM** 2016
Vice President, Administrative
Services
B.P.A., University of San Francisco
MBA, Presidio Graduate School

**HARADA, NAOKO** 2007
Director, Child Development Center
B.A., University of the Sacred Heart
M.A., San Francisco State University

**HOLMES, LLOYD A.** 2020
President
A.A., Itawamba Community College
B.Accy., M.Ed., Ph.D., University of
Mississippi

**LEBLEU-BURNS, MICHELE**    2007
Dean, Student Development and EOPS
B.A., San José State University
M.A., Santa Clara University
E.D., Saint Mary's College of
California

**MANDY, LISA**    2013
Director, Financial Aid and Scholarships
B.S., American Intercontinental
University

**MENDOZA, ERIC**    2019
Dean, Physical Education and Athletics
A.A., Fresno City College
B.A., California State University, Fresno
M.A., Fresno Pacific University

**MIESO, ROB**    1994
Vice President, Student Services
B.A., National University
M.A., Ed.D., Fielding Graduate
University

**MUTHYALA-KANDULA, ANITA**    2011
Dean, Biological, Health and
Environmental Sciences
MBBS, Gandhi Medical College

**NORTE, EDMUNDO**    2010
Dean, Intercultural/International Studies
B.A., University of California, Irvine
Ed. M., Harvard University

**RAMOS, ELVIN**    2020
Dean, Social Sciences and
Humanities
B.A., M.A., Adelphi University
D.A., St. John's University

**RANCK, LORRIE**    2014
Associate Vice President, Instruction
B.A., University of Wyoming
M.A., University of San Francisco

**RAY, THOMAS**    2010
Dean, Language Arts
B.A., University of Minnesota
M.F.A., Louisiana State University
Ph.D., University of Nebraska

**ROSENBERG, JERRY**
Dean, Physical Sciences,
Mathematics and Engineering
B.A., B.S., Rutgers University
M.S., University of Washington

**SMITH, DANIEL**    2019
Dean, Creative Arts
B.A., California State University,
Fullerton
M.F.A., California State University,
Fullerton

**SPATAFORE, MARISA**    2006
Associate Vice President,
Communications and External
Relations
B.S., West Virginia University
M.A., San Francisco State University

**SWANSON, KELLY**    2013
Director, Bookstore
A.A., Fresno City College

**VARELA, MARTIN**    2017
Director, College Fiscal Services
B.A., Menlo College

**VILLALBA, KAREN ARLENE**    2006
Assistant Director,
Child Development Center
A.A., De Anza College
B.A., Pacific Oaks College

# EMERITI FACULTY AND ADMINISTRATORS

**ABRICA-CARRASCO, RUBEN**    2012-2019
Spanish/Latino Studies
B.A., Occidental College
M.A., Stanford University

**ADAMY, GEORGEANNE**    1989-2002
Nursing
B.S., Arizona State University
M.S., University of Maryland

**ALLEN, ROBERT R.**    1961-1993
Division Dean, Biology
and Health Science
A.A., City College of San Francisco
B.A., University of California, Berkeley
M.A., San Francisco State University

**ARAKI, JOANNE M.**    1989-2005
Nursing
B.S.N., University of Hawaii
M.S.N., San José State University

**ATENCIO, DAN**    2007-2016
Physical Education/
Head Football Coach
B.A., M.A., San Francisco State
University

**AVERY, CHRIS**    1966-2002
Mathematics
A.A., College of Marin
B.A., M.S., San José State University

**BARKER, CHARLES B.**    1969-1999
Mathematics
B.A., M.A., University of California,
Los Angeles

**BARNETT, DONALD C.**    1968-1997
Dean, Language Arts
B.A., M.A., University of Michigan

**BARNEY, DAVID M.**    1989-2011
Film/TV
B.A., University of Delaware
M.Ed., University of Hawaii

**BARTUNEK, CAROL R.**    1975-1998
Religious Studies
A.A., Foothill College
B.A., San José State University
M.Div., American Baptist Seminary

**BEGGS, THOMAS W.**    1981-2017
Physical Education
Adaptive Physical Education
A.A., De Anza College
B.S., M.A., San José State University
Ed.D., University of San Francisco

**BERRY, FRANK W.**    1969-2002
English
A.B., University of Michigan
M.A., San Francisco State University

**BLINICK, CARON S.**    1981-2014
Dean, Community Education
and Older Adult Studies
B.A., University of Illinois, Dekalb
M.A., University of Wisconsin,
Madison

**BLOOM, ROBERTA**    2001-2019
Mathematics
B.A.,Princeton University
M.A., Harvard University

**BOGUS, S. DIANE**    1990-2001
English
B.A., Stillman College
M.A., Syracuse University
Ph.D., Miami University

**BOTHMAN, RICHARD W.**    1988-1995
Administration of Justice
B.A., M.S., San José State University

**BOWER, JOAN**    1975-1990
Older Adult Services
B.A., M.S., San José State University

**BRANDT, MICHAEL**    1975-2016
Automotive Technology
A.A., De Anza College

**BREEN, MIA**    2000-2019
Accounting
B.A., University of California, Berkeley

**BRESNAN, PATRICK S.**    1967-2009
History
B.S., Loyola University, Chicago
M.A., Northwestern University

**BRESSOUD, EDWARD F.**    1967-1990
Division Dean, Physical Education
A.A., Los Angeles City College
B.S., University of California, Los
Angeles
M.A., San José State University

**BROCK, ROBERT E.**    1968-1991
English
B.A., Gonzaga University
M.A., Stanford University

**BRUCE, KENNETH R.**    1968-1995
History
A.B., M.A., San José State University

**BRUCH, SUSAN**    1990-2012
Nursing/Biology
B.S., San José State University
M.S., University of California,
San Francisco

**BUCHANAN, ANGELA**    1990-2016
Social Sciences
B.A., Oberlin College
M.A., Ohio State University
M.A., Ph.D., Stanford University

**BUCHNER, PATRICIA**    2014-2019
Medical Technology
B.S., University of California, Davis
M.S., California Polytechnic State
University

**BULL, MICHAEL A.**    1976-2011
Economics
A.A., Los Angeles Valley College
B.A., M.A., San José State University

**BURKE, LAWRENCE J.**    1989-2011
Social Sciences and Humanities
B.A., Aquinas Institute
M.A., St Xavier College
Ph.D., University of New Mexico

**BURLING, EDWIN**    1968-2002
Biology
B.A., University of California, Santa
Barbara
M.A., Dartmouth College

**CABALLERO DE CORDERO,
ANGELA**    2011-2014
Dean, Counseling
M.S.W., California State University,
Fresno
Ph.D. Education, University of
California, Santa Barbara

**CALGHER, PAUL F.**    1966-2013
Chemistry
Ph.D., University of California,
San Francisco

**CAMPBELL, DAVE**    1998-2005
Accounting
B.S., La Salle College
MBA, San José State University
Ph.D., La Salle University

**CANTER, NANCY**    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

**CANTRELL, JOSEPH E.**    1984-1997
Business
B.S., Oklahoma State University
MBA, Stanford University

**CASTANO, WILFREDO Q.**    1989-2017
Photography
B.F.A., San Francisco Art Institute
M.A., San Francisco State University

**CASTILLO, CINDY**    1977-2012
Director, Financial Aid and
Scholarships
B.A., San José State University

**CENTANNI, DEBORAH**    2007-2017
Disability Support Programs and
Services
B.A., St. Mary's College
M.A., San José State University

**CHAN, KWAN H.**    1974-2004
Library
B.S., Hong Kong University
M.L.S., University of New York
M.Ed., North Adams State College
Ph.D., United States International
University

**CHAN, SUSANNE W.**    1977-2013
Counseling
B.A., University of Maryland
M.S., Ed.S., State University of
New York

**CHANG, MICHAEL S. H.**    1989-2019
Asian/Asian-American Studies
B.S., B.A., San Francisco State
University
M.A., Ph.D., Stanford University

**CHEESEMAN, DOUGLAS T.**    1967-1997
Biology
B.A., M.A., San José State University

**CHENOWETH, WAYNE**    1990-2015
Disability Support Programs and
Services
B.A., M.A., California State University,
Chico

**CHESLER, PAUL B.**    1977-2006
Social Sciences
B.S., University of Wisconsin
M.A., San José State University,
Education

**CHUDILOWSKY, BARBARA K.**    1985-2001
Mathematics
B.A., San Francisco State University
M.S., San José State University

**CICERONE, MARCOS**    1977-2008
Director, Staff Development
B.A., New York University
M.A., National University of Mexico

**CLAVIJO, JUDITH**    1992-2017
Nursing
B.S., University of Rosario
M.S., University of Michigan

**CLEAVELAND, CORRINE**    1975-2013
Child Development Center
B.A., University of California, Davis

**CLEM, ROBERT**    1998-2019
Counseling
B.C.J., Ohio University
M.S., San Francisco State University

**CLEVELAND, WILLIAM**    1968-2003
Humanities
B.F.A., M.F.A., Texas Christian
University

**CLUNIE, ROBERT K.**    1970-1991
Sociology
A.A., Yuba College
B.A., San José State University
M.C.P., University of California,
Berkeley
M.A., San José State University

**COGNETTA, JOHN S.**    1989-2017
Student Activities
B.A., University of California, Berkeley
M.S., University of Oregon
Ed.D., University of San Francisco

**COLE, MICHAEL**    1989-2013
Design/Computer Graphics
B.A., California State University,
Northridge
M.A., University of California,
Los Angeles

**COLEMAN, DAVID**    1990-2017
Counseling
B.A., M.A., University of California,
Santa Barbara

**COLEMAN, JUDY C.**    1989-2012
Counseling
A.A., De Anza College
B.A., University of California, Berkeley
M.A., Santa Clara University

**COLTRIN, DOROTHY M.**   1970-2003
Nutrition
B.S., University of California, Berkeley
M.S.P.H., University of California,
Los Angeles

**COLVARD, JOYCE A.**   1975-2004
Computer Applications
and Office Systems
B.S., University of Tennessee
M.S., North Texas State University

**CONROY, LINDA C.**   1987-2018
Child Development Center
A.A., De Anza College
B.A., San José State University

**COOPER, MICHAEL J.**   1969-2004
Art
B.A., M.A., San José State University
M.F.A., University of California, Berkeley

**CORDERO, JUANITA**   2000-2011
Child Development
B.A., Holy Names
M.A., Pacific Oaks
M.A., Ph.D., Global Ministry University

**CUNY, ANN WHARTON**   1975-1993
P.E./Recreation
A.A., Monterey Peninsula College B.A.,
M.S., San José State University
Ph.D., United States International
University

**CUSTODIO, JAMES G.**   1972-1995
Counselor
A.A., City College of San Francisco
B.A., M.A., San Francisco State
University

**DAVIES, DAVID H.**   1966-1993
Mathematics
B.A., Western Washington State
College
M.A.T., San Diego State University

**DEAN, SUSAN L.**   1991-2007
Mathematics
B.A., University of California,
Santa Barbara
M.A., University of Santa Clara

**DELAS, MARIA**   2006-2018
Disability Support Services
B.S., California Polytechnic State
University
M.A., Santa Clara University

**DICKERSON, ROBERT C.**   1989-2014
English/Composition
B.A., University of Texas
M.A., Memphis State University

**DIETRICH, GAEIR**   2001-2018
Director, High Tech Center
Training Unit
B.A., San José State University

**DOMINGUEZ, ALFRED**   2007-2015
Counseling
B.A., University of California, Berkeley
M.P.A., California State University,
East Bay
M.A., San José State University

**DOUGHERTY, CHARLES S.**   1977-2008
Physical Education
B.A., San José State University
M.A., M.S., San José State University
M.A., U.S. Coast Guard
Ph.D., University of Iowa

**DOWDNEY, DONNA**   1990-2001
Chair, Technical
Communication Department
B.A., Wheaton College
M.A., Indiana University
Ph.D., Columbia Pacific University

**DRESSLER, FRANCES R.**   1971-1992
Sociology/Psychology
A.A., College of Sequoias
B.A., Fresno State University
M.A., Syracuse University
Ph.D., United States International
University

**DRUEHL, GREGORY**   1978-2008
Political Science
B.A., Stanford University
M.A., San Francisco State University
Ed.D., University of San Francisco

**DUBARRY, MICHELE**   2002-2019
English as a Second Language
B.A., M.A., San Francisco State
University

**DUNIVIN, J. D.**   1964-1999
Sociology
B.A., M.A., San José State University

**DUNN, LESTER R.**   1966-1998
Physics
B.A., Lake Forest College
M.S., Illinois Institute of Technology

**DUREMDES, JOY**   1990-2019
Child Development Center
B.A., University of Guam

**EDWARDS, JAMES D.**   1965-1999
Political Science
B.A., Occidental College
M.A., Claremont Graduate School

**EKNOIAN, GERALD**   1968-1992
Art
B.S., University of California,
Los Angeles
M.A., in Painting, University of
California, Berkeley
M.A., in Art History, San José State
University

**ELDER, CHARLES L.**   1968-2004
Physical Education
B.A., M.A., San José State University

**ELLIS, TERRY R.**   1991-2019
Paralegal/Administration of Justice
B.A., University of California,
Los Angeles
J.D., Santa Clara University

**EMERICK, PAUL L.**   1970-1989
Computer Information Systems
B.M.E., Rensselaer Polytechnic
Institute
B.S.C., Salmon P. Chase College
MBA, Xavier University

**ENGLE, MICHAEL L.**   1975-2008
Machine Tools
A.A., San Mateo College
Journeyman Tool and Die Maker
Credential, University of California,
Berkeley

**ESPINOLA, JUDITH**   1986-1996
Theatre Arts
B.A., Emerson College
M.A., Oklahoma University
Ph.D., Northwestern University

**ESTER, DONALD**   1969-1992
Geology
B.S., University of Alaska
M.S., Stanford University

**FARRINGTON, ROBERT P.**   1981-2014
Music
B.A., University of California,
Los Angeles
M.A., California State University,
East Bay

**FINK, BARBARA**   1975-2011
Mathematics
B.S., City College of New York
M.S., Stanford University

**FINSTON, GLORIA**   1975-2001
Learning Disabilities Specialist
B.A., Earlham College
M.A., Santa Clara University

**FLEMING, JOHN, N.**   1980-2007
English as a Second Language
A.A., Pasadena City College
B.A., University of California, Berkeley
M.A., San José State University

**FORMAN, JEFFREY W.**   1978-2014
Adaptive Physical Education
B.S., Med., Springfield College,
Massachusetts
Ph.D., United States International
University

**FOROUZAN, BEHROUZ A.**   1991-2009
Computer Information Systems
B.S., University of Tehran
M.S., University of California, Irvine

**FORSYTH, TONI M.**   1991-2009
English/Composition
B.A., M.A., California State University,
Los Angeles
Ph.D., University of California, Los
Angeles

**FOY, RUTH**   1970-2001
Coordinator, Health Services
B.S.N., Georgetown School of
Nursing

**FREDERICK, VIVIAN R.**   1975-1991
Computer Information Systems
A.A., Ashland Junior College
B.A., Eastern Kentucky State
Teachers College
M.S., San José State University

**FRIESEN, JOAN**   1999-2014
Learning Disabilities
B.A., San José State University
M.A., Santa Clara University
M.A., Santa Clara University

**FUNG, DONNA I.**   1975-2009
Counseling
B.S., M.A., San José State University

**GARCIA, PAULA**   1976-2008
Child Development Center
B.A., M.A., San José State University

**GEISINGER, JR., WILLIAM L.**   1978-2012
Creative Arts
A.A., San Joaquin Delta College
B.A., San José State University

**GIBSON, PATRICIA**   2000-2019
Counselor
B.A., San José State University
M.A., San José State University

**GILBERG, RICHARD F.**   1991-2001
Computer Information Systems
B.A., San José State University
M.S., National University

**GLENN, DEBORAH**   199-2019
Child Development Center
B.A., San José State University

**GOESLING, WENDELL J.**   1975-2012
Psychology
A.A., Bakersfield Jr. College
A.B., Fresno State College
Ph.D., University of Tennessee

**GOLDSBERRY, JAMES**   1970-1999
English
B.A., M.A., San Diego State University

**GOUGH, W. MICHAEL**   1985-2019
Business
B.A., MBA, University of Santa Clara
M.A., Notre Dame de Namur
University

**GRACIA, JORGE E.**   1974-2012
Spanish
A.A., Laredo Junior College, Texas
B.A., Texas A. and I. University
M.Ed., M.A.T., Stanford University

**GRAHAM, DONALD**   1963-1999
Geography
A.A., Glendale College
B.S., M.S., University of Oregon

**GRAY, ZENA**   1975-2009
B.A., University of California,
Los Angeles
M.A., College of Notre Dame

**GREEN, PHILLIP S.**   1989-2010
Automotive Technology
A.A., De Anza College
B.A., San José State University

**GREENE, CAROLE**   1964-2003
English
B.F.A., M.A., San José State
University
M.F.A., John F. Kennedy University
B.A., M.A., University of California,
Los Angeles

**GRIFFIN, ROBERT E.**   1994-2008
Vice President, Student Services and
Institutional Research
B.A., M.S., San José State University
Ed.D., University of LaVerne

**GROBMAN, BETH A.**   1987-2011
Journalism/Mass Communication
B.A., Pitzer College
M.A., St. Louis University

**GUEVARA, JORGE**   1979-2014
A.A., De Anza College
B.A., M.A., San José State University

**GULASSA, CYRIL M.**   1967-1997
English
B.A., St. Joseph's College
M.A., University of California,
Berkeley

**HALSEY, HAYWARD (TUCK)**   1968-1998
Physical Education
B.A., M.A., San José State University

**HAM, LEWIS H., JR.,**   1979-1994
Director, Admissions and Records
B.S., United States Military Academy,
West Point
M.A., University of Texas

**HAMER, REGINALD**   1985-2010
Mathematics
B.S., Lowell University
M.S., Ph.D., New York University

**HAMES, JOANNE**   1989-2004
Paralegal/Administration of Justice
B.A., J.D., Santa Clara University

**HANLEY, JAMES R.**   1973-2004
Political Science
B.A., M.A., San José State University

**HANNA, CASSIE**   2006-2014
Nursing
B.S., Michigan State University
M.S., University of San Francisco

**HANSEN, RICHARD N.**   1991-2018
Mathematics
A.B., Cornell University
M.A., University of California,
Berkeley
M.A., California State University,
Los Angeles

**HARPER, KENNETH**   1992-2004
Accounting
A.A., Mesa Community College B.S.,
California Polytechnic State University
M.P.A., University of San Francisco

**HARPER, LAURI M.**   1974-2001
Counselor
A.A., College of Marin
B.A., University of California,
Santa Barbara
M.A., Stanford University

**HARRINGTON, SHERWOOD**   1989-2018
Astronomy
B.A., Amherst College
M.A., University of California,
Berkeley

**HARRIS, JOYCE C.**   1985-2001
Computer Information Systems
B.S., Stanford University
M.S., University of California,
Los Angeles

# EMERITI FACULTY AND ADMINISTRATORS

**HART, THOMAS A.** 1973-1988
Music
B.A., M.A., San Francisco State
University

**HASSEL, PATRICIA L.** 1969-2012
Medical Assisting/Health
Technologies
B.S., The University of Phoenix
R.N., Montreal General Hospital

**HAYNES, JAMES H.** 1976-2014
Adaptive Physical Education
A.A., West Valley College
B.S., M.A., San José State University

**HECTOR, JANICE** 1994-2017
Mathematics
B.S., M.A., University of California,
Davis
MBA, Pace University

**HEFFNER, SCOTT C.** 1976-2012
Political Science
B.A., San José State University
M.A., Santa Clara University
M.A., San José State University

**HELFMAN, SUZANNE** 2002-2015
English
B.A., M.A., San Francisco State
University

**HENDERSON, BRUCE** 1997-2010
English
B.A., M.A., English, San Francisco
State University
Ph.D., Stanford University

**HENDRICKSON, MARY E.** 1984-1999
Business and Computer
Information Systems
B.A., Hamline University
M.S., San Francisco State University

**HERMAN, SONDRA R.** 1966-1992
History, Political Science
B.A., Barnard College
M.A., Ph.D., Rutgers University

**HOEFER, LEO A.** 1977-1993
Older Adult Services
B.A., St. Patrick College
M.A., San Francisco State University
Ph.D., University of Washington

**HOLLER, MICHAEL** 1970-2006
Film/TV
A.A., Chaffey College
B.A., M.A., Humboldt State University

**HOOKS, SYLVIA** 1975-2004
Physical Education
B.S., Central State University
M.A., Stanford University

**HOWARD, CAROL M.** 1968-1997
Counseling
B.A., Regis College
M.Ed., Boston University

**HOWARD-PITNEY, DAVID** 1992-2019
History
B.A., Oregon State University
M.A., Ph.D., University of Minnesota

**HUBBS, ROBERT R.** 1963-2001
Chemistry
B.S., Western Illinois University
M.S., Purdue University

**HUNTER, EBENEZER** 1970-2010
African American Studies
B.A., M.A., San José State University

**HUNTER, TRULY** 1996-2019
Counseling
B.A., Winthrop University
M.Ed., Clemson University
Ed.D, Argosy University

**HUNTIMER, LINDA** 1973-2006
Learning Disabilities
B.A., M.A., Arizona State University
Ed.D., University of San Francisco

**IFFT, MARY ANN** 2000-2013
English as a Second Language
M.A., San Francisco State University

**ILLOWSKY, BARBARA S.** 1989
Mathematics
B.S., State University of New York at
Albany
M.A., The Wharton School, University
of Pennsylvania
Ph.D., Capella University

**JEANPIERRE, LETHA L. W.** 1987-2014
Vice President, Finance and College
Operations
B.S., MBA, University of Colorado

**JENNINGS, VICKIE** 2002-2013
Biology/Environmental Studies
B.A., M.A., San José State University

**JOHNSON, JUDITH** 1988-2004
Center for Applied
Competitive Technologies
B.A., The College of Charleston
M.A., Webster University

**JONES, HELEN B.** 1974-1997
Instructor/Enabler,
Physically Limited Program
A.A., Boston University
B.A., University of Illinois
M.A., Hunter College

**JONES, RUTH** 1983-2012
Child Development Center
B.A., San José State University

**JONES-DULIN, DONNA** 2001-2016
Associate Vice President,
Finance and College Operations
B.A., American University
M.A., San Francisco State University

**JURIKA, LILLIAN U.** 1978-1999
Counselor
B.A., University of San Diego
M.A., Stanford University, English
M.A. San José State Univsersity,
Counseling San José State
University Certificate, Applied Social
Gerontology

**KARST, LAURA** 2001-2017
French
B.A., University of California,
Santa Cruz
M.A., San José State University

**KELLER, INGRID** 1963-1992
German
A.A., Pasadena City College
B.A., Occidental College
M.A., Stanford University

**KENDALL, SHIRLEY** 1995-2007
Professional and Workforce
Development
B.A., University of Southern California
M.A., National University

**KLANG, ROBERT** 1970-1997
English
B.A., M.A., San Francisco State
University

**KLEIN, CHARLES S.** 1989-2017
Mathematics
B.A., Hobart College
M.A. University of Northern Colorado

**KLINE, BEN** 2001-2019
History
B.A., M.A., San José State University
Ph.D., University College, Cork

**KLINT, GLORIA (JEAN)** 1998-2007
Child Development Center
B.S., University of Utah
M.A., California State Polytechnic
University, Pomona

**KODA, ANN Y.** 1986-2001
Computer Applications
and Office Systems
B.A., University of California, Berkeley
M.A., San José State University

**KOVACH-LONG, SANDRA** 1976-2017
Special Education
A.A., Riverside City Junior College
B.S., M.S., San José State University

**KRYLIOUK, IAROSLAV** 2008-2019
Mathematics
Ph.D., University of Saskatchewan

**LAMIT, LOUIS G.** 1984-2013
Computer Assisted Drafting Program
B.S., Western Michigan University

**LASSERRE, YVETTE M.** 1991-2001
French
A.A., De Anza College
B.A., M.A., San José State University

**LAU, PHILIP K. C.** 1972-2007
Psychology
B.A., San Francisco State University
M.S.W., University of California,
Berkeley

**LEAVITT, MURRAY P.** 1965-1994
Business
B.A., University of Missouri
MBA, Long Island University
M.A., Teacher's College, Columbia
University
Ed.D., University of California, Berkeley

**LEE, ELAINE** 1991-2017
Speech
B.A., M.A., University of Hawaii

**LEE-KLAWENDER, CYNTHIA** 2000-2017
Computer Science
B.A., California State University,
Los Angeles
M.S., University of Southern
California

**LEE-WHEAT, COLEEN** 1990-2017
Dean, Physical Education and
Athletics
B.S., University of California,
Los Angeles
M.S., California State University,
East Bay

**LEE-YEN, ANN** 1989-2012
Child Development Center
M.S., Oregon State University

**LEIGH, ROBERT J.** 1972-2003
Automotive Technology
B.A., M.A., San Francisco State
University

**LESKINEN, ANNE L.** 1985-2011
Mathematics
B.A., M.A., University of Western
Ontario

**LETSON, ROGER L.** 1979-2007
Music
B.M.Ed., M.M., University of Montana

**LEWIS, WILLIAM G.** 1968-2003
Automotive Technology
B.A., M.A., San José State University
Journeyman Machinist

**LISHA, ZAKI** 1974-2013
Film/TV
B.A., University of Southern California
M.A., San Francisco State University

**LINTHICUM, JAMES A.** 1965-2004
Physical Education
B.S.Ed., Ohio University
M.S., University of Colorado

**LOGAN, GEORGIA H.** 1961-1992
English
B.A., Oberlin College
M.A., Stanford University

**LOPEZ-MORGAN,** 1988-2010
**CHRISTINA A.**
Social Sciences
A.A., Los Angeles City College
B.A., M.A., Pacific Oaks College

**LUCAS, JAMES S.** 1975-2000
B.A., M.A., San Francisco State
University
Ed.D., University of California, Berkeley

**LUOTTO, JAMES A.** 1966-2001
English
B.A., University of Notre Dame
M.A., Ph.D., Loyola University,
Chicago

**LUPI-WILLIAMS, FRANCES** 1970-1991
Physical Therapist Assisting
B.S., University of the State of
New York
M.A., Stanford University

**LYNCH, JOHN** 2005-2011
Business
B.S., University of Mississippi
MBA, Harvard University

**MACK, ROGER W.** 1977-2012
Economics
B.A., M.A., San Francisco State
University
Ph.D. Syracuse University

**MAIERO, MARCIA SMITH** 1990-2014
Physical Education
B.A., California State University, Chico
M.S., California State University,
East Bay

**MANRIQUEZ, NAPOLEON H.** 1977-2006
Director, Assessment Center
B.A., San José State University
M.A., Ph.D. Stanford University

**MATHIOS, DIANE** 1996-2016
Mathematics
B.A., M.A., University of California,
Berkeley

**MAZZUCA, ROBERT G.** 1981-2001
Physical Education
B.A., College of the Pacific
M.A., University of the Pacific

**MCCART, MICHAEL** 2010-2019
Automotive Technology
B.S., M.A., California State University,
Fresno

**MCCARTHY, JAMES** 1976-2007
Dean, Library
B.A., California State University,
San Bernardino
M.S., University of Southern California

**MCDONNELL, BARBARA** 1975-1991
Early Childhood Education
B.A., M.A., San José State University

**MCNAMARA, MARTIN** 1996-2017
Animation
B.A., University of Notre Dame
M.A., San Francisco State University

**MELAS, HEIDI** 1993-2010
German
B.S., M.S., San José State University

**MENÉNDEZ, JOSE F.** 1985-2016
Director, Printing Services
A.A., College of San Mateo

**MILONAS, FAITH E.** 1986-2013
Counselor
B.A., Westfield State College
M.S., State University of New York
Ed.D., University of Nevada

**MILTON, JOHN** 1970-2005
English
B.A., M.A., San Francisco State
University

**MITCHELL, G. DAN** 1989-2017
Music Theory and Composition
B.A., M.A., San José State University

**MITCHELL, GLORIA** 1976-2004
Psychology
A.A., Foothill College
B.A., San José State University
M.A., Santa Clara University

**MOORE, THOMAS O.** 1966-1998
Mathematics
B.S.E.E., University of California
M.A., San Francisco State University

**MORENO, M. CRISTINA** 1991-2010
Spanish
B.A., M.A, M.S., Indiana University

**MORENO, MOSES S.** 1972-1993
Chicano Studies
A.A., Chaffey College
B.A., M.A., Stanford University

# EMERITI FACULTY AND ADMINISTRATORS

**MORENO, VICTORIA** 1999-2017
Counselor
B.A., San José State University
M.A., San José State University

**MOWREY, JUDITH M.** 1986-2010
Library
B.A., Oklahoma Baptist University
M.A., San Francisco State University
M.L.S., University of Oregon

**MUHLSTEIN, ELEANOR A.** 1983-2002
Teacher, Child Care Program
B.A., San José State University

**MULLEN, WILLIAM** 1972-1999
Automotive Technology
B.A., University of Denver

**MURPHY, BRIAN** 2004-2018
President
B.A., Williams College
M.A., Ph.D., University of California,
Berkeley

**NAGEL, WILLIAM** 2002-2012
Graphic Design
B.A., San José State University

**NAKASHIMA, WENDY** 1982-1997
Child Development Center
B.S., Miami University
M.S., Case-Western Reserve
University

**NELSON, SHARON S.** 1976-2003
Hope-De Anza Vocational Program
B.A., Augustana College

**NICHOLS, BARBARA** 1977-1990
Older Adult Services
A.A., Foothill College
B.A., San José State University
M.A., Santa Clara University

**NICKEL, DONALD** 2001-2017
Counseling
B.A., M.A., San José State University

**NIELSEN, M. LANCE** 1975-2006
A.A., Diablo Valley Junior College
B.S., California State University,
East Bay
M.A., San José State University

**NENGO, ISAIAH** 2006-2019
Anthropology
B.A., Nairobi University
M.A., Ph.D., Harvard University

**NORRIS, MARCIA** 1991-2001
High Tech Center Training Unit
B.A., University of Alabama
M.A., English, M.A., Education,
San José State University

**NUNES, ANTHONY J.** 1966-1992
Physical Education
A.A., College of the Sequoias
B.S., M.S., California State
Polytechnic College

**O'BRIEN, FAY** 1967-1993
Acting Executive Head,
Allied Health and Nursing
Diploma, French Hospital,
San Francisco
A.B., San Francisco State University
M.A., College of the Holy Names

**O'DONNELL, DANIEL J.** 1968-1995
Computer Information Systems
B.S.C., MBA, University of
Santa Clara

**OHTAKE, MOTOSUKE** 2006
Art
B.F.A., Nihon University, College of Arts
B.F.A., Academy of Art College
M.F.A., San Francisco Art Institute

**OLEJNICZAK, PAUL** 2000-2016
Meteorology/Astronomy
B.S., M.S., Duquesne University

**ONEY, ANNE W.** 1985-1999
Dean, Business and
Computer Science Division
B.A., Cornell University
M.A., San José State

**PABON, TONY** 1981-1997
Mathematics
A.B., M.S., California State University,
Los Angeles

**PARKER, GERALDINE** 1993-2013
Native American Studies
B.A., California State University,
East Bay

**PATTERSON, NORMA** 1971-1986
Nursing
B.S., University of Oregon
M.S., University of California

**PATTON, MARILYN** 1991-2013
English/Composition
B.A., Stanford University
M.A., Ph.D., University of California,
Santa Cruz

**PEARCE, KIMBERLY A.** 1987-2013
Speech Communication
B.A., Azusa Pacific University
M.A., San José State University

**PECORARO, SALVATORE P.** 1968-1997
Art
A.B.Ed., California College of Arts
and Crafts
M.A., San Francisco State University

**PERATA, DONALD A.** 1966-1996
Vice President, Student Services
Interim Chancellor
B.A., M.A., San José State University

**PERRY, JOHN W.** 1989-2011
Computer Information Systems
B.A., University of Delaware
M.C., M.S., Arizona State University

**PETERSON, DENNIS E.** 1968-1997
Biology
Division Dean, Biological and Health
Sciences (acting)
B.A., M.S., Brigham Young University

**PEURIFOY, BARBARA** 2006-2011
Nursing
B.S., California State University,
Dominiguez Hills
M.S., University of Phoenix

**PHILLIPS, JULIE** 1993-2015
Morgan Family Endowed Chair in
Environmental Studies/Instructor
Biological Sciences
B.A., California State University,
Chico
M.A., San José State University

**PHILLIPS-PROUTY, BARBARA J.** 1964-1993
Counseling, Physical Education
B.S., Wheaton College
M.A., Colorado State College

**PICHON, ULYSSES A.** 1975-2009
English/English
B.S., Xavier University of Louisiana
M.A., San José State University

**PIERCE, DIANE** 2000-2019
Photography
B.A., San Francisco State University
M.F.A., Mills College

**PIERRE, ADRIENNE** 1999-2019
Counseling
B.S., M.A., San José State University

**PLUM, KATHRYN S.** 1989-2015
Mathematics
B.S., Montana State University
M.S.I.E., M.S.Q.A., San José State
University

**POGGI, CLAUDINE** 1989-2012
English as a Second Language,
Linguistics and Writing
B.A., City University of New York
M.A., San Francisco State University
M.A., University of Hawaii

**POKLEWSKI DABROWSKA,** 1977-2013
**ANNA**
Music
B.A., Myceum-Music,
M.A., Yagellonian University
L.R.A.M., Royal Academy of Music

**POTTER, LEROY C.** 1965-1993
Engineering
B.S., Drexel Institute of Technology
M.S., Stanford University

**PRITCHARD, WILLIE** 2006-2008
Academic Coordinator
B.A., Duke University
M.A., Antioch University

**QUARATO, PATRICIA S.** 1992-2008
Biology
B.S., Virginia Commonwealth
University/Medical College
M.S., University of Southern
California

**QUENON, LOUISE** 1970-1998
Biology
B.A., University of California, Berkeley
M.A., University of Wisconsin

**QUIRKE, LILLIAN M.** 1964-1988
Art
B.S., Southern Connecticut State
College
M.A., California State University,
Long Beach
Ed.D., Teacher's College, Columbia
University

**RAFF, MARGO I.** 1980-2017
Counseling
B.A., University of Florida
M.A., Michigan State University
M.A., University of San Francisco

**RAMIREZ, ANTONIO** 2007-2019
Philosophy
B.A., University of California,
Santa Cruz
M.A., Ph.D., Brown University

**RAMIREZ, OSCAR** 1973-1993
Vice President, Administrative
Services
B.A., M.A., California State University,
Fresno
Ph.D., United States International
University

**RAMSKOV, CHARLES** 1992-2019
Psychology
A.A., De Anza College
B.A., San José State University
M.A., University of California, Davis
Ph.D., California Coast University

**RAPPAPORT, STEVEN D.** 1974-2007
Philosophy/Economics
A.B., University of California, Berkeley
M.A., San José State University
Ph.D., University of Toronto

**RASHALL, BENITA** 1977-2008
Physically Limited Counselor/Enabler
B.S., University of California, Berkeley
M.S., San Francisco State University

**REDD, JANET F.** 1968-2002
Librarian, Collection Development/
Technical Services
B.A., M.L.S., University of California,
Berkeley
M.A., San José State University
Ph.D., Stanford University

**REID, BARBARA** 1977-1989
Vice President, Instruction
B.A., State University of Iowa
M.A., Ed.D., University of Northern
Colorado

**RESSA, GARY** 1967-1997
Counseling
B.S., San José State University
M.A., Stanford University

**REZA, JACQUELYN VALERIE** 1985-2015
Staff and Organizational Development
B.A., M.S.S., San Francisco State
University
B.S., Ahmadu Bello University
Ed.D., University of San Francisco

**RIESE, TED** 1969-1999
English
B.A., University of California, Berkeley
M.A., San Francisco State University

**ROSSI, DONALD E.** 1969-2000
Mathematics
A.B., University of California, Berkeley
Ed.M., Harvard University
M.A., University of California,
Berkeley

**ROWE, JAMES K.** 1968-1996
Counselor
A.B., Occidental College
M.A., Stanford University

**SANDELMAN, PEARL B.** 1975-1992
Business
B.A., M.A., San José State University

**SCHAFER-BRAUN, DEBI** 1976-2014
Physical Education
B.S., M.S., California State University,
East Bay

**SCHAFFER, KARL** 1989-2017
Mathematics
B.S., University of Alabama
M.A., Ph.D., University of California,
Santa Cruz

**SCHROEDER, RICHARD V.** 1984-2012
Dean, Physical Education
and Athletics
B.A., University of California, Berkeley
M.A., San José State University

**SCHWOOB, LESLIE A.** 1967-2003
Automotive Technology
B.A., M.A., San Francisco State
University

**SCOTT, DANIEL R.** 1970-2001
English
B.S., M.A., Brigham Young University

**SEKHON, RUPINDER S.** 1985-2014
Mathematics
B.S., University of San Francisco
M.A., San Francisco State University

**SETZIOL, PAUL L.** 1981-2017
Music
B.M., M.M., D.M.A., University of
Oregon

**SHERWOOD, REBECCA A.** 1983
Nursing
B.S.N, M.N., University of Florida
D.N.Sc., Boston University

**SKYLES, WILLIAM V.** 1962-1989
English
B.A., De Paul University
M.A., University of Chicago

**SMITH, ELEANOR A.** 1968-1989
Counselor
A.A., Green Mountain College
B.S., University of New Hampshire
M.S., University of Colorado

**SMITH, WENDY** 1989-2004
Child Development Center
B.S., Pennsylvania State University
M.Ed., University of Pittsburgh

**SOLER, FRANCISCO** 1985-2011
Mathematics
B.S., University of New Mexico
M.S., University of Oklahoma

**SPENCER, LEROY G.** 1975-2000
Automotive Technology

**SPENCER, WILLIAM A.** 1976-2001
Language Arts
B.S., Louisiana Southern University
M.A., San Francisco State University

**SPLITTER, RANDOLPH N.** 1989-2011
English/Composition
B.A., Hamilton College
B.A., University of California,
Santa Cruz
Ph.D., University of California,
Berkeley

**STANN, SUSAN S.** 1988-2007
English as a Second Language
TESOL Certificate - Linguistics,
San José State University
B.A., M.A., University of Michigan

# EMERITI FACULTY AND ADMINISTRATORS

**STASIO, DONNA D.**  1985-2016
Speech Communication
A.A., Columbia Junior College
B.A., Stanislaus State College
M.A., Washington State University

**STEMLER, ANN B.**  1977-2004
Biology
B.S., M.S., Ph.D., University of Illinois

**STERN, DEBORAH R.**  1986-2008
B.A., University of California, Berkeley
M.S., California State University,
San Francisco

**STERNLIEB, MYRA B.**  1975-1999
Nursing/Health
R.N., B.S.N., Ohio State University
M.S., San Francisco State University

**STEVENS, MARGARET L.**  1992-2016
History
A.A., De Anza College
B.A., University of California, Berkeley
M.A., San José State University

**STOKES, PHILLIP F.**  1964-2000
English, English as a Second Language,
English, Speech, Linguistics
B.A., M.A., San Francisco State
University

**STOLL, EDWINA L.**  1986-2009
Speech/Communication
B.A., Linfield College
M.A., University of Hawaii
Ph.D., University of Utah

**STRAUSS, RAYMOND C.**  1961-1985
Mathematics
B.S., M.S., University of Chicago

**STRINGER, DAVID D.**  1981-2011
Business
B.S., San José State University
MBA, Golden Gate University,
San Francisco

**STURM, J. BRUCE**  1976-2000
English
B.A., Villanova University
M.A., Stanford University
M.A., Santa Clara University

**SULLIVAN, KRISTIN**  2002-2017
Environmental Studies
B.S., M.S., San José State University

**SULLIVAN, MICHAEL G.**  1970-2004
Geography and Anthropology
Dean/Provost, Instruction,
Career and Technical Education
B.A., M.A., University of California,
Santa Barbara
Ph.D., University of Pittsburgh

**SULLIVAN, NELL D.**  1970-1993
English
B.A., M.A., University of California,
Berkeley

**SWENSSON, JOHN**  1989-2012
English
B.A., U.S. Military Academy,
West Point
B.A., University of Northern Colorado
M.A., University of Virginia

**TACANG, LEROY J.**  1972-2004
Art
B.A., M.A., San José State University

**TAKAHASHI, JANET**  1974-2014
Learning Disabilities
B.A., Mills College
M.A., San Francisco State University

**TANDOC, NELSON E.**  1968-1997
Music
B.M., University of Oregon
M.A., University of Washington

**THOMAS, HUGH S.**  1966-1998
Political Science
B.Sc. (Econ), London University,
London School of Economics
M.A., San José State University

**TONG, HOMER H. C.**  1977-2017
Chemistry
B.A., California State University, Chico
M.S. Oregon State University

**TOOTHMAN, GARY L.**  1978-2001
Automotive Technology
B.A., Indiana State University
M.A., San José State University

**TORRES, LAUREL**  1996-2013
Counseling
R.N., A.D.N., College of San Mateo
B.A., University of California, Davis
M.S., California State University

**TRAVIS, BARBARA B.**  1977-1995
Associate Director,
English Skills, Readiness Lab
B.A., Edinboro State College
M.A., Teachers' College, Columbia
University

**TREJO, PAUL E.**  1961-1989
Astronomy, Engineering
B.S., University of Southern California
B.S., U.S. Naval Post Graduate
School
M.A., San José State University

**TRIMBLE, JEAN C.**  1966-1990
Nursing
A.A., American River Junior College
B.S., Stanford University
M.S., University of California

**TURNER, WILLIAM**  1998-2011
English
B.A., M.A., California Polytechnic
State University

**VACIO, ALEJANDRO V.**  1991-2001
Physical Education/Athletic Director
B.A., San José State University
M.S., California Polytechnic State
University

**VANNIASEGARAM,**  1991-2010
**GNANALAKSHMI**
Mathematics
B.S., University of Colombo,
Sri Lanka
M.S., University of California,
Santa Cruz

**VICIAN, THOMAS A.**  1968-2004
Philosophy
B.A., Luther College
M.Th., Luther Theological Seminary
Ph.D., Claremont University Center

**WAATHIQ, PAULINE**  1974-2007
Learning Disabilities
B.A., Indiana University
M.Ed., University of Pittsburgh

**WAGNER, DEBORAH**  2003-2013
Medical Technology
B.S., University of Iowa

**WAGNER, WESLEY W.**  1975-1997
HOPE Vocational Program
B.A., Washington State University
M.S., Portland State University

**WALKER, CHARLES A.**  1967-1993
Art
A.A., Contra Costa College
B.A., San Francisco State University
M.A., San José State University

**WALKER-ABSHIRE, TISA**  1989-2005
Anthropology
B.A., M.A., Stanford University

**WALLACE, RUTH A.**  1961-1981
Coordinator, Work
Experience Education
B.A., University of California
M.A., San José State University

**WALSH, PATRICIA A.**  1975-1989
History
B.A., Queens College
M.Ed., D.Ed. University of California,
Los Angeles

**WANLASS, JOHN W.**  1974-2009
Accounting and Computer
Information Systems
B.A., M.A., Brigham Young University

**WARNOCK, RON**  1998-2004
Dean, Physical Education
B.S., State University of New York,
Cortland
M.S., Washington State University
Ph.D., Florida State University,
Tallahassee

**WASSMAN, ROSE MARIE M.**  1971-1997
English, English Improvement
B.A., M.A., Wayne State University

**WEGMAN, ROBERT W.**  1974-1999
Physical Education
B.A., San José State University
M.A., Stanford University

**WERNER, JEAN**  1975-2006
Counseling
B.A., University of California, Berkeley
M.A., San Diego State University

**WEST, LINDA**  1985-2013
Business Office Technology
B.S., M.A., San José State University

**WEUSI-PURYEAR, MUATA**  1987-2008
Mathematics
B.S., Monmouth College
M.S., New Mexico State University
Ph.D., Stanford University

**WHITE, STEPHEN J.**  1971-1994
Physical Therapist Assisting
B.S., St. Lawrence University
M.A., Stanford University

**WILKINS-SANTOS, CAROLYN**  1989-2019
Dean, Social Sciences and Humanities
B.Mus., University of Texas, Austin
M.A., Stanford University

**WILLIAMS, HILLIS P.**  1968-1983
Theatre Arts
A.B., McPherson College, Kansas
M.A., Northwestern University

**WILLIAMS, JAMES C.**  1985-2004
History
B.A., University of Oregon
M.A., San José State University
Ph.D., University of California,
Santa Barbara

**WILLIAMS, RICHARD**  1989-1999
Drafting CAD
A.A., Bakersfield College
B.A., M.A., San José State University

**WILSON, CAROLYN**  1993-2004
B.A., California State University,
Los Angeles

**WINTERS, MARION**  1990-2009
Diversity Office/Intercultural/
International Studies
B.A., San José State University
M.S., San Francisco State University
Ed.D., University of San Francisco

**WOMER, CHARLES E.**  1975-2000
Business
B.S., University of California, Berkeley
M.P.H., University of California
MBA, San José State University

**WONG, LETTY**  1992-2017
English as a Second Language
A.A., San Francisco City College
B.A., M.A., San Francisco State
University

**WOOD, RICHARD**  1996-2008
Sociology
B.A., M.A., West Virginia University

**WOOD, SARAH D.**  1989-1999
English
B.A., Stanford University
M.A., Yale University

**WOODWARD, CHERYL**  1986-2015
Counseling
B.A., M.A., San José State University

**WRENN, BRUCE G.**  1974-1992
Mathematics
B.S.M.E., University of Cincinnati
M.S.M.E., University of Southern
California
Ph.D., Stanford University

**YASUDA, PHYLLIS S.**   1974-1998
Business
B.A., M.A., San José State University

**YECKLEY, PAULINE**   1986-2015
Library
B.A., M.A., Michigan State University
M.A., University of Michigan

**ZARECKY, GARY**   1983-2015
Physical Education
B.A., California State University, Chico
M.A., Azusa Pacific University

# CLASSIFIED PROFESSIONALS

**ABAD, SOFIA**   1989
Occupational Training Institute

**ABDULLAEVA, KAMILLA**   2019
Admissions and Records

**AGUILAR, LENNY A.**   2005
Adapted Physical Education

**AGUILAR, MELISSA**   2010
Language Arts

**AGUSTIN, MEGAN**   2020
Mailrooom

**ALAMBAN, CARLITA**   1990
Occupational Training Institute

**ALDERETE, CONCEPCION**   1999
College Operations

**AMIT, ROLAND**   2005
Admissions and Records

**APARICIO, VERONICA**   2008
Admissions and Records

**ARGABRITE, DIANA**   2001
Euphrat Museum of Art

**ARMSTRONG, DEBORAH**   2002
Disabled Student Programs
and Services

**ASKINS, MICHAEL**   2017
Planetarium

**AUROPREM, NAGALAKSHMI**   2015
Library Services

**AVILA GARCIA, JOSE**   2020
Grounds

**BACHMAN, CLARE**   2019
Disability Support Programs and
Services

**BAEZ-ACEVEDO, MIGUEL**   1991
Operations

**BAILEY, BRANDON**   2016
Communications

**BAILEY, THOMAS**   2017
Nursing

**BARREIRA MARTINS, AMANDA**   2019
College Operations

**BAYS, CHING**   2017
Physical Sciences, Math and
Engineering

**BDZIL, MARGARET**   2001
Workforce Development

**BETOSIP, MARI**   2019
Financial Aid

**BICHLER, SILVIA**   2001
Creative Arts

**BONNER, CHRISTIAN**   2007
Creative Arts

**BOSTICK, SASHA**   2019
Biological, Health and
Environmental Services

**BOOYE, MARILYN**   1990
Extended Opportunities Programs
and Services

**BREAULT, EDWARD**   1995
Creative Arts

**BROWN, JAYME**   2014
Bookstore

**BURDICK, MARIVIC**   2013
College Operations

**BURLANESCU, LIDIA**   2016
Biology

**BYARS, DAVID**   2008
Learning Resources

**CABRERA, DEBORAH**   2014
Deaf and Hard of Hearing Services

**CALE, DONNA**   2014
Disability Support Programs and
Services

**CAMPBELL, MAZZETTA**   2019
Child Development Center

**CARDOZA, SANDRA**   2008
Learning Resources

**CARUANA, TRACY**   2017
Educational Diagnostic Center

**CARUNGAY, EDWIN**   2017
Communications

**CERVANTES, EMIGDIO**   2008
College Operations

**CERVANTES, LETICIA**   1999
College Operations

**CHACKO, VINS**   2017
Academic Services

**CHAN, AMMALINH**   2019
Extended Opportunities Programs
and Services

**CHAN, SOKUNTHEARA**   2020
Health Services

**CHAND, SUSHINI**   2017
Counseling

**CHANG, MI**   2002
Curriculum/Scheduling

**CHENEY, MELODIE**   1998
Admissions and Records

**CHO, HUA-CHING**   2014
Child Development Center

**CHUNG-TABANGCURA, TRACY**   2000
Articulation and Transfer Services

**CLARK-TILLMAN, MARY**   1999
Curriculum

**CONTRERAS, ADAM**   2008
College Operations

**CONTRERAS, BRANDY**   2017
College Operations

**CORDOBA ROBYN, INES**   2016
International Student Services

**CORNELL, RAYMOND**   2019
Physical Education

**CUSTODIO, MARLO**   2019
Communications

**DEL RIO, PATRICIA**   2017
Counseling

**DEL RIO, PATRICIA**   2017
Counseling

**DIAZ, JUAN**   2019
Communications

**DIBERNARDO, JACQUELINE**   2015
Financial Aid

**DICKARD, JEFFREY**   2006
Admissions and Records

**DIGIULIO, LIZ**   2015
Massage Therapy

**DI GREGORIO, BECKI**   2004
Extended Opportunities Programs
and Services

**DOAN, LUCY**   2000
Scheduling

**DOAN, MICHELLE**   2000
Physical Sciences, Math &
Engineering

**DUONG, GIOI**   2010
College Operations

**DUQUE, INGRID FELK**   2007
Occupational Training Institute

**ECHEVERRIA, ARMANDO**   2005
Adapted Physical Education

**ESQUIVEL MORENO, ANGÉLICA**   2017
Academic Services

**ESPINO, AGUSTIN**   2017
Design and Manufacturing
Technologies

**ESPINOSA PRADOS, MARTHA**   2019
Outreach and Relations with Schools

**ESTRADA, ALFREDO**   2001
College Operations

**EVERT, OLGA**   2008
Instruction

**FERREIRA, ANA MARIA**   2012
College Operations

**FERREIRA, EDUARDO**   2018
Custodial

**FERRER, MARK**   2014
Disabled Student Programs
and Services

**FLORES, ERIKA**   2016
Student Success and Support
Program

**FUQUA, BOO**   2019
Educational Diagnostic Center

**FOSNAUGH, MICHAEL**   2001
Disabled Student Programs
and Services

**FRAGOZA, ROSA-ANN**   2017
Health Services

**FRANCO, KAREN**   2007
Deaf and Hard of Hearing Services

**FUENTES, MARITZA**   2014
Child Development Center

**FUKUYAMA, KIMBERLY T.**   2006
Educational Diagnostic Center

**GALVAN, GRACY**   2018
Community Education

**GALINDO, MICHAEL**   2016
Disabled Student Programs
and Services

**GARCIA, ADRIANA**   2016
Equity, Social Justice and
Multicultural Education

**GARRIDO, DAVID**   1991
Online Education Center

**GERARD, TERI**   2007
College Fiscal Services

**GHAMRAWI, ABDUL**   2010
Business, Computer Science
and Applied Technologies

**GIBSON, PIPPA**   2001
Administrative Services

**GILBERTSON, KIMBERLY**   2005
Adapted Physical Education

**GILLELAND, MAX**   2002
Design and Manufacturing
Technologies

**GILMORE, JOSEPH**   2017
Admissions and Records

**GODOY RODRIGUEZ, MAYRA**   2019
Financial Aid

**GORE, SALLY**   1989
College Operations

**GUST, MYRNA**   2015
Child Development Center

**GUZMAN, CLAUDIA**   2016
Professional Development

**HARRELL, ALEX**   2015
Communications

**HATT, LISA**   2000
Library

**HAWTHORN, MARGARITA**   2002
Community Education

**HEIN, GEORGE**   1997
Language Arts

**HERNANDEZ, FRANCISCO**   2015
College Operations

**HERNANDEZ, JUAN**   2006
College Operations

**HERNANDEZ, NANCY**   2014
Disabled Student Programs
and Services

**HERNANDEZ MAZARIEGOS,
MARIA**   2016
Student Development

**HILER, LAURA**   2016
Financial Aid

**HIRATA, LUCILA**   2007
Child Development Center

**HO, SUSAN**   2001
Physical Education

**HO, TRUNG**   2015
Disabled Student Programs
and Services

**HOANG, GARETT**   2019
Language Arts

**HUNTER, KAREN KAY**   2005
Financial Aid

**HUYNH, ANDY**   2007
Assessment

**HUYNH, CHANEL**   2017
Student Success Center

**IIZUKA, YOKO**   2020
Child Development Center

**JAHN, ELIZABETH**   2019
Bookstore

**JENSON, ELIZABETH**   2019
Disability Support Programas and
Services

**JOHNSON, BARRY**   1996
Admissions and Records

# CLASSIFIED PROFESSIONALS

**KAHLER, VICTORIA** 2011
Student Success Center

**KALEIALII, CHRISTIANA** 2018
Athletics

**KANAFA, SYLWIA** 2014
Child Development Department

**KANG, EUNSOOK** 2006
Creative Arts

**KARIMI, MEHRAN** 2020
Academic Services

**KASKOWITZ, LOUIS** 2017
Disabled Student Programs
and Services

**KASOYAN, OKSANNA** 2019
Student Success Center

**KAUR, SATINDER** 2014
Biological, Health and
Environmental Sciences

**KAUWELOA, AMELIA** 2018
Health Services

**KENNEDY, DANA** 2015
Business, Computer Science
and Applied Technologies

**KERSMAN, LISA** 2017
Financial Aid

**KHA, BACHMAI** 1995
Business, Computer Science
and Applied Technologies

**KHINE, AYE** 2013
Child Development

**KIM, YUME** 2016
Educational Diagnostic Center

**KING, HEIDI** 2015
Online Education Center

**KIRK, LISA** 1994
Student Accounts

**KIRKPATRICK, KERI** 2006
Learning Resources

**KOBATA, DAVID** 2018
Athletics

**KOMATSU, TOSHI** 2016
Planetarium

**KONG, JOHN** 2000
College Operations

**KONG, YUKBING** 1997
College Operations

**KULUSICH, KRISAN** 2011
Health Services

**LAI, CLIFFORD** 2019
Dining Services

**LAM, PHONG** 2008
Business, Computer Science
and Applied Technologies

**LAM, TRACY** 2006
Academic Services and Learning
Resources

**LARGENT, ALLISON** 2007
International Student Programs

**LE, CHUONG** 2002
Extended Opportunities,
Programs and Services

**LEE, CYNTHIA** 2013
Adapted Physical Education

**LI, JIATONG** 2019
College Fiscal Services

**LING, LIN** 2018
International Student Programs

**LIPSIG, JOSEPH** 2012
Occupational Training Institute

**LOCKWOOD, TINA** 2016
College Operations

**LOPEZ, ANGELIE** 2019
Counseling

**LOVDAHL, ELI** 2017
Testing and Assessment

**LUIS, MELISSA** 2017
Counseling

**LUSTRE, CHRISTIAN** 2019
Student Success Center

**LY, KIMSENG** 2019
Dining Services

**MACHADO, MARIA** 2015
Campus Center

**MAGALLON CERVANTES, SANDRA** 2018
Financial Aid

**MALBOUBI, YASMINE** 2017
Assessment Center

**MARTINEZ, DIANA** 2007
Environmental Sciences

**MAYNARD, LORNA** 1991
Automotive Technology

**MCGILL, CONNOR** 2017
HOPE

**MEDRANO, MARY** 2017
Intercultural Studies

**MENDES, EDUARDO** 2014
College Operations

**MOLINA OCHOA, MAGALI** 2017
Career Training

**MONSELL, CATHLEEN** 2012
Physical Sciences, Math and
Engineering

**MOREANOFERREL, MARVIN** 2010
Student Success Center

**MUNSON, KATHLEEN** 1997
Library

**MURPHY, ANN** 2019
Child Development Center

**NAKAHARA, CHRISTINE** 2009
Deaf and Hard of Hearing Services

**NAKAYAMA, CINDY** 1998
Admissions and Records

**NEWELL, MALLORY A.** 2010
Institutional Research

**NG, JOSEPH** 2002
International Student Programs

**NGUYEN, BACHLAN** 1984
Business, Computer Science and
Applied Technologies

**NGUYEN, DUC** 1998
College Operations

**NGUYEN, HELEN** 2019
Student Success Center

**NGUYEN, HENRY** 2000
Cashiering Services

**NGUYEN, JENNIFER** 1985
Student Accounts

**NGUYEN, KIM-PHUONG** 2020
Child Development Center

**NGUYEN, LESLIE** 1997
Social Sciences/Humanities

**NGUYEN, STEVEN** 2016
Communications

**NGUYEN, THAO PHUONG** 2006
Financial Aid

**O'KEEFE, FAY M.** 2006
Child Development Center

**OUK, SAMASATHY** 2014
Food Services

**PABROS, ANGELITA** 2001
Academic Services

**PAHL, HANNAH** 2002
Deaf and Hard of Hearing Services

**PARKER, ARLYNN** 2015
Administrative Assistant II

**PARTIDA-FLETES, JESUS** 1997
College Operations

**PASQUALI, SHARI** 2008
Admissions and Records

**PERALES, KIT** 2014
Budget and Personnel

**PEREZ PEREA, MILAGROS** 2019
Financial Aid

**PEREZALONSO, MARIA** 2000
Extended Opportunities Programs
and Services

**PHAN, DUC** 1987
Printing Services

**PITCHFORD, DANIEL** 2020
Bookstore

**QUIDACHAY, JERALD** 2018
Custodial

**QUIDACHAY, JESSICA** 2005
College Operations

**RAETHER, JENNIFER** 2019
Adapted Physical Education

**RAMIREZ, SUZANNA** 2020
Psychological Services

**REICHMUTH, CRISTIN** 2016
Community Education

**REYNO, MARK** 2018
Automotive Technology

**RODERIQUES, IVAN** 1995
College Operations

**RODRIGUEZ, ANNA** 2016
Counseling

**RODRIGUEZ, JORGE** 1998
Cashiering Services

**ROY, TERESA** 2014
College Operations

**RUELAS, CLAUDIA** 2013
Financial Aid

**RUELAS, JESUS** 2015
Outreach

**SABAWI, OLA** 2018
Institutional Research and Planning

**SALAS, GREGORY** 2016
Disabled Student Programs
and Services

**SANCHEZ, AMELIA** 1995
Testing and Assessment

**SANCHEZ, BERTHA** 2016
Admissions and Records

**SANCHEZ, NUBIA** 2015
Outreach

**SANCHEZ, RITA** 2002
Child Development Center

**SANTA ANA, TONY** 2015
Equity, Social Justice and Multicultural
Education

**SANTACRUZ, ANDREA** 2007
Counseling

**SCHOOLER, SHIRLEY** 1992
Disabled Student Programs
and Service

**SCHOTT, THOMAS** 1987
Film/TV

**SEALE, IMAN** 2018
Communications

**SERRANO, MARIA** 1989
Food Services

**SHANNAKIAN, DENNIS** 1999
College Life

**SMITH, JOANNA** 2019
Disability Support Programs and
Services

**SMITH, LEAH** 2017
Extended Opportunities Programs and
Services

**SOUSA, JASON** 2013
College Operations

**SOUSA, ROSA** 2002
College Operations

**STEINER, CHRISTA** 2016
Evaluation Specialist

**STEWART, SABRINA** 2013
Occupational Training Institute

**STRONGONE, ANGELICA** 2000
International Student Programs

**STRUVE, JOHN** 2015
Food Services

**SUBEDI, BIDYA** 2020
Counseling

**SUPNET, DARWIN GIOVANNI** 2017
Health Services

**TAYLOR, DEBORAH** 2017
Nursing

**TE, KIM** 2002
Scheduling

**THAI, TRUNG** 1998
Learning Resources

**THANH, QUANG** 2001
Learning Resources

**THOMPSON, CAMERON** 2019
Community Education

**TOMALINAS, ROBERT** 2006
Admissions and Records

**TOVAR, MARCO ANTONIO** 2014
Disability Support Programs
and Services

**TRAN, TRANG** 2015
Food Services

**TRINH, LAN** 2002
Extended Opportunities
Programs and Services

**VALENCIA SUDA, KANAKO** 2007
Learning Resources

**VALENTINE, GARY** 2013
Financial Aid

**VAN, NINA** 2003
Financial Aid

**VANZANDT, ALYSSA** 2018
Creative Arts

**VARELA, SOFIA** 2006
Child Development Center

**VEGA, JOAQUIN** 2015
College Operations

**VELA, JENNY** 2012
Online Education Center

**VICTORIANO, MAURICE** 2017
Custodial

**VILLALBA, KAREN** 2006
Child Development

**VUONG, NGA** 2019
Bookstore

**WALLACE, SARAH** 2019
Athletics

**WANG, SHUYAN** 2006
Child Development

**WARD, GINA** 2015
Admissions and Records

**WATSON, LAURA** 2015
Student Services

**WEINER, JESSICA** 2013
Child Development

**WEN, CHIA C.** 2010
Creative Arts

**WHEAT, CASIE** 2005
Assessment Center

**WHELAN, PATRICIA** 2001
Disabled Student Programs
and Services

**WHYTE, BERTHA** 2016
Financial Aid

**WINN, CHRISTIAN** 2018
Campus Facilities

**WRIGHT, BILL** 2006
Child Development Center

**YASENOV, CHELSEA** 2019
International Student Programs

**YUVARAJ, DEEPA** 2014
Academic Services

# DE ANZA COLLEGE ADMINISTRATION



LLOYD A. HOLMES
President

CHRISTINA G.
ESPINOSA-PIEB
Vice President, Instruction

PAM GREY
Vice President,
Administrative Services

ROB MIESO
Vice President,
Student Services

LORRIE RANCK
Associate Vice President,
Instruction

MARISA SPATAFORE
Associate Vice President,
Communications and
External Relations

## DE ANZA COLLEGE ADMINISTRATION

| | |
|---|---|
| Associate Vice President, College Operations | **Vacant** |
| Dean, Biological, Health and Environmental Sciences | **Anita Muthyala-Kandula** |
| Dean, Business, Computer Science and Applied Technologies | **Moaty Fayek** |
| Dean, Career Technical Education and Workforce Development | **Randy Bryant** |
| Dean, Community Education | **Sam Bliss** |
| Dean, Counseling and Disability Support Programs and Services | **Laureen Balducci** |
| Dean, Creative Arts | **Daniel Smith** |
| Dean, Enrollment Services | **Nazy Galoyan** |
| Dean, Equity and Engagement | **Alicia Cortez** |
| Dean, Intercultural/International Studies | **Edmundo Norte** |
| Dean, Language Arts | **Thomas Ray** |
| Dean, Physical Education and Athletics | **Eric Mendoza** |
| Dean, Physical Science, Math and Engineering | **Jerry Rosenberg** |
| Dean, Social Sciences and Humanities | **Elvin Ramos** |
| Dean, Student Development and EOPS/CARE | **Michele LeBleu-Burns** |
| Director, Bookstore and Printing Services | **Vacant** |
| Director, Campus Center | **Patrick Gannon** |
| Director, Child Development Center | **Naoko Harada** |
| Director, College Fiscal Services | **Martin Varela** |
| Director, Financial Aid and Scholarships | **Lisa Mandy** |
| Director, STEM Success Program | **Yvette Campbell** |
| Manager, Operations | **Manny DaSilva** |

# 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 student violations are contained in Administrative Procedures 5510 and 5520 of the Foothill-De Anza Community College District.

## Controlled Substances - Uses and Effects

| Drug | Dependence physical/psychological | How Used | Duration (hours) | Possible Effects | Symptoms of Overdose | Withdrawal Syndrome |
|---|---|---|---|---|---|---|
| Opium | High/High | Oral, smoked | 3-6 | Euphoria<br>Drowsiness, respiratory depression<br>Constricted (pin-point) pupils | Slow, shallow breathing, clammy skin<br>Convulsions, coma, possible death | Watery eyes, runny nose, yawning, cramps<br>Loss of appetite, irritability, nausea |
| Morphine | High/High | Oral, smoked, injected | 3-6 | | | |
| Codeine | Mod./Mod. | Oral, injected | 3-6 | | | |
| Heroin | High/High | Smoked, injected, sniffed | 3-6 | | | |
| Hydromorphone | High/High | Oral, injected | 3-6 | | | |
| Meperidine | High/High | Oral, injected | 3-6 | | | |
| Methadone | High/High | Oral, injected | 12-24 | | | |
| Barbiturates | High/Mod. | Oral | 1-16 | Sensory alteration, anxiety reduction, intoxication<br>Small amounts cause calmness, relaxed muscles<br>Larger amounts cause slurred speech, impaired judgment, loss of motor coordination | Shallow respiration, clammy skin, dilated pupils<br>Weak and rapid pulse, coma, death | Anxiety, insomnia, muscle tremors, loss of appetite<br>Abrupt cessation or reduced high dose may cause convulsions, delirium, death |
| Methaqualone | High/High | Oral | 4-8 | | | |
| Tranquilizers | High/High | Oral | 4-8 | | | |
| Chloral Hydrate | Mod./Mod. | Oral | 5-8 | | | |
| Glutethimide | High/Mod. | Oral | 4-8 | | | |
| Cocaine* | Possible/High | Sniffed, smoked injected | 1-2 | Increased heart and respiratory rates, elevated blood pressure, dilated pupils and decreased appetite; high doses may cause rapid or irregular heartbeat, loss of coordination, collapse; may cause perspiration, blurred vision, dizziness, a feeling of restlessness, anxiety, delusions | Agitation, increase in body temperature, hallucinations, convulsions, possible death | Apathy, long periods of sleep, irritability, depression, disorientation |
| Amphetamines | Possible/High | Oral, injected | 2-4 | | | |
| Methamphetamine | Possible/High | Oral, injected | 2-4 | | | |
| Phenmetrazine | Possible/High | Oral, injected | 2-4 | | | |
| Methylphenidate | Possible/Mod. | Oral, injected | 2-4 | | | |
| Other Stimulants | Possible/High | Oral, injected | 2-4 | | | |
| Ice | High/High | Smoked, oral injec., inhaled | 4-14 | | | |
| PCP, Angel Dust Loveboat | Unknown/High | Smoked, oral, injected | Up to days | Rapidly changing feelings, immediately and long after use<br>Chronic use may cause persistent problems, depression, violent behavior, anxiety, distorted perception of time<br>Large doses may cause convulsions, coma, heart/lung failure, ruptured blood vessels in the brain<br>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 | None/Unknown | Oral | 8-12 hrs. | | | |
| Mescaline, Peyote | None/Unknown | Oral, injected | 8-12 hrs. | | | |
| Psilocybin | None/Unknown | Oral, injected, smoked, sniffed | Variable | | | |
| Marijuana | Unknown/Moderate | Smoked, oral pot, grass | 2-4 | Euphoria followed by relaxation; loss of appetite; impaired memory, concentration, knowledge retention; loss of coordination; more vivd sense of taste, sight, smell, hearing; stronger doses cause fluctuating emotions, fragmentary thoughts, disoriented behavior, psychosis; may cause irritation to lungs, respiratory system; may cause cancer | Fatigue, lack of coordination, paranoia, psychosis | Insomnia, hyperactivity, sometimes decreased appetite |
| Tetrahydro-cannabinol | Unknown/Moderate | Smoked, oral | 2-4 | | | |
| Hashish | Unknown/Moderate | Smoked, oral | 2-4 | | | |
| Hashish Oil | Unknown/Moderate | Smoked, oral | 2-4 | | | |

# Federal Trafficking Penalties

| Description | Quantity | 1st Offense | 2nd Offense |
|---|---|---|---|
| Marijuana | 1,000 kg more mixture; or 1,000 or more plants | 1. Not less than 10 years, not more than life. 2. If death or serious injury, not less than 20 years, not more than life. 3. Fine not more than $4 million individual, $10 million other than individual. | 1. Not less than 20 years, not more than life. 2. If death or serious injury, not less than 20 years, not more than life. 3. Fine not more than $8 million individual, $20 million other than individual. |
| Marijuana | 100 kg to 999 kg mixture; or 100-999 plants | 1. Not less than 5 years, not more than 40 years. 2. If death or serious injury, not less than 20 years, not more than life. 3. Fine not more than $2 million individual, $5 million other than individual. | 1. Not less than 10 years, not more than life. 2. If death or serious injury, not less than 20 years, not more than life. 3. Fine not more than $4 million individual, $10 million other than individual. |
| Marijuana | 50 to 99 kg mixture 50 to 99 plants | 1. Not more than 20 years. 2. If death or serious injury, not less than 20 years, not more than life. 3. Fine $1 million individual, $5 million other than individual. | 1. Not more than 30 years. 2. If death or serious injury, not more than life. 3. Fine $2 million individual, $10 million other than individual. |
| Marijuana Hashish Hashish Oil | Less than 50 kg mixture 10 kg or more 1 kg or more | 1. Not more than 5 years. 2. Fine not more than $250,000, $1 million other than individual. | 1. Not more than 10 years. 2. Fine $500,000 individual, $2 million other than individual. |

|  | Drug | Quantity | | 1st Offense | 2nd Offense | 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 | 1. Not less than 5 years. Not more than 40 years. 2. If death or serious injury, not less than 20 more than life. 3. Fine of not more than $2 million individual, $5 million other than individual. | 1. Not less than 10 years, not more than life. 2. If death or serious injury, not less than life. 3. Fine of not more than $4 million individual, $10 million other than individual. | 1. Not less than 10 years. Not more than life. 2. If death or serious injury, not less than 20 years or more than life. 3. Fine of not more than $4 million individual, $10 million other than individual. | 1. Not less than 20 years. Not more than life. 2. If death or serious injury, not less than life. 3. Fine of not more than $8 million individual, $20 million other than individual. |
| | Heroin | 100-999 gm mixture | 1 kg or more mix | | | | |
| | Cocaine | 500-4,999 gm mixture | 5 kg or more mix | | | | |
| | Cocaine Base | 5-49 gm mixture | 50 gm more mix | | | | |
| | PCP | 10-99 gm pure or 100-999gm mixture | 100 gm or more pure or 1 kg or more mixture | | | | |
| | LSD | 1-9 gm mixture | 10 gm or more mixture | | | | |
| | Fentanyl | 40-399 gm mixture | 400 gm or more mixture | | | | |
| | Fentanyl Analogue | 10-99 gm mixture | 100 gm or more mixture | | | | |

|  | Drug | Quantity | 1st Offense | 2nd Offense |
|---|---|---|---|---|
| | Others (law does not include marijuana, hashish, or hash oil) | Any | 1. Not more than 20 years. 2. If death or serious injury, not less than 20 years, not more than life. 3. Fine $1 million individual, $5 million not individual. | 1. Not more than 30 years. 2. If death or serious injury, life. 3. Fine $2 million individual, $10 million not individual. |
| CSA III and IV | All (includes anabolic steroids as of 2/27/91) | Any | 1. Not more than 5 years. 2. Fine not more than $250,000 individual, $1 million not individual. | 1. Not more than 10 years. 2. Fine not more than $500,000 individual, $2 million not individual. |
| | All | Any | 1. Not more than 3 years. 2. Fine not more than $250,000 individual, $1 million not individual. | 1. Not more than 6 years. 2. Fine not more than $500,000 individual, $2 million not individual. |
| | All | Any | 1. Not more than 1 year. 2. Fine not more than $100,000 individual, $250,000 not individual. | 1. Not more than 2 years. 2. Fine not more than $200,000 individual, $500,000 not individual. |

# INDEX

# DIRECTORY

## HOW TO LOCATE BUILDINGS AND ROOMS

Building numbers are the first digit of room numbers. Example: Room S-73 is located in Building S-7.

| | |
|---|---|
| Administration Building | President, Vice Presidents and Associate Vice Presidents (Administrative Services, Instruction, Student Services, Communication Studies), Academic Services, Budget and Personnel, Institutional Research, Rental Facilities Coordinator, Mailroom |
| ADM-101,102 | Classrooms |
| 103 | Classroom |
| 105 | Articulation and Transfer Services |
| 106, 109 | Conference Rooms |
| 119 | Classroom |
| A-1 | Choral Hall |
| A-4 | Creative Arts Division Office, Faculty Offices |
| A-5 | Ceramics/Painting Studio |
| A-6 | Photography Studio |
| A-7 | Sculpture Studio |
| A-9 | Classrooms |
| AT — Advanced Technology Center | Labs and Classrooms for Accounting, Computer Access Lab, Computer Information Systems (CIS), Disability Support Programs and Services, Engineering, English, English as a Second Language (ESL), Film/TV, Graphic Design, Language, Manufacturing and Design, Mathematics, Statistics, Student Success Center |
| Baldwin Winery | Financial Aid, Printing Services, Part-time Faculty Offices |
| Hinson Campus Center | Dining Rooms, Dining Services, Meeting Rooms: |
| Upper Level | Conference Rooms A and B, Don Bautista Room, El Clemente Room, Fireside Room, Meeting Room 1, Santa Cruz Room, Staff Lounge, Meditation and Prayer Room |
| Lower Level | Foothill-De Anza District Police, De Anza Associated Student Body (DASB) Offices, DASB Card Office, Office of College Life, Dean of Student Development, EOPS/CARE, |

| | |
|---|---|
| | Flea Market Office, Le Café, Health Services, Inter-Club Council (ICC) Office, Student Accounts, Student Council Chambers |
| CDC | Child Development Center |
| CHC | California History Center (Trianon Building) |
| ECOT-1 | Vasconcellos Institute for Democracy in Action (VIDA) |
| E-1 | Automotive Technology |
| E-2 | Design and Manufacturing Technologies |
| E-3 | Classrooms, Faculty Offices |
| ESA | Environmental Study Area Lab |
| F-1 through 6 | Faculty Offices |
| FC | Flint Center, Box Office |
| FOR — Forum | Art History Slide Library/Office, Faculty Offices, Lecture Halls |
| F-1,2,3 | Faculty Offices |
| F-4,6 | Faculty Offices |
| G-1 through 10 | General Purpose Classrooms, Grounds and Custodial Warehouse – Plant Services |
| KC — Kirsch Center For Environmental Studies | Biological, Health and Environmental Sciences/ Workforce Education Division Office, Faculty Offices, Classrooms |
| LCW — Learning Center West | Audio Visual, Classrooms, Deaf and Hard of Hearing Services, Disability Support Services Testing and Tutoring, Library West Computer Lab Student Success and Retention Services |
| Library— (Rear) | Community Education – Extended Year Program, Short Courses |
| L-1 | Business, Computer Science and Applied Technologies Division Office, Language Arts Division Office, Social Sciences/ Humanities Division Office |
| L-2,3 | Classrooms/Psychology Lab |
| L-4 | La Voz, Red Wheelbarrow, Classrooms |
| L-5 | Restrooms |
| L-6,8 | Classrooms |
| L-7 | Data Services |

| | |
|---|---|
| Media and Learning Center (MLC) | Online Education, Equity Office, Learning Resources, Multimedia Team, Professional Development |
| Mod Quad MQ-1 | ETS |
| MQ-2 | Classroom |
| MQ-3 | Classroom |
| MCC | Intercultural/International Studies Division Office and Multicultural Center |
| PE-1 | Auxiliary Gyms, Physiology Lab |
| PE-2 | Main Gym |
| PE-4 | P.E. Division Office, Recreational Sports/Intramural Office, Faculty Offices |
| PE-5 | Faculty Offices |
| PE-6 | Fitness and Wellness Center, Locker Rooms, Faculty Offices |
| PLT — Planetarium | De Anza College Planetarium |
| Science Center | |
| SC-1 | Lecture Hall, Faculty Offices |
| SC-2 | Labs |
| SC-3 | Pavilion |
| SEM — Seminar | CompTechS/Computer Donation Program, Occupational Training Institute (OTI), County Office of Education, Veteran Services |
| S-1 | Geology/Physics Classrooms, Faculty Offices |
| S-2 | Restrooms |
| S-3 | Classrooms/Physical Science/ Math/Engineering Division Office, Faculty Offices, Honors Program |
| S-4 | Classrooms/Math and Science Tutorial Center, Faculty Offices |
| S-5 | Classrooms, Faculty Offices |
| S-6 | Restrooms |
| S-7 | Classrooms, Faculty Offices |
| S-8 | Nursing/Classrooms |
| S-9 | Faculty Offices |
| RSS — Registration and Student Services Building | Admissions and Records, Assessment Center (Testing), Bookstore, Cashier, Counseling and Advising Center, DASB Bike Rental Corral, Disability Support Programs and Services/DSPS Counseling, International Student Programs, Matriculation, Outreach and Relations with Schools, Psychological Services, Transcripts, Transfer Center |
| VPAC — Visual & Performing Arts Center | Art History Classroom, Auditorium/Lecture Hall, Euphrat Museum of Art |

# De Anza College

21250 Stevens Creek Boulevard
Cupertino, CA 95014

**280  85**
HWY 280 & Route 85 North

Route 85 South

Stevens Creek Boulevard

North Entrance

Mary Avenue

Stevens Creek Boulevard

Stelling Road

ONE WAY TRAFFIC

Service Road

Staff Lot J

Flint Center Parking Structure

Staff Parking

Staff Parking

A8  A1  A2  A3  A5  A9  A4  A6  A7

A Quad

Flint Center

DROP-OFF

GN  ECOT-1

Sunken Garden

Media & Learning Center (MLC)

CHC

Trianon/California History Center

Main Quad

LCW Learning Center West

Library (Learning Center)

Community Education

Fountain

GTE

Mechanical Shop

Grounds & Custodial Warehouse

SEM Seminar

S9  S8  S7  S6  S5  S3  S1  S2

S Quad

E3

Staff Lot F

E2  S4

PLT

E1

SC3  SC2  SC1

Science Center

Outdoor "Garden" Classroom

Parking Lot E

Staff Parking

G

CDC

Child Development Center

Parking Lot D

Staff/Student Lot A

VTA  DROP-OFF

V

Registration & Student Services Building (RSS)

Admissions & Records  ATM  Bookstore

Baldwin Winery Building
Financial Aid, Printing Services & Part-time Faculty Offices

Police & Health Services

Campus Center  ATM

Administration Building & ADM Classrooms

FOR Forum

PE1  PE2

PE4  PE5

Pools  GN

PE Quad

Women's Locker Room
Men's Locker Room

Fitness & Wellness Center  PE6

Euphrat Museum of Art

Visual & Performing Arts Center (VPAC)

MCC Multi-cultural Center  GN

AT Advanced Technology Center

F2  L2  L3  F3  F1  L1  F6  L8  L7  L6  F4  F5

L Quad  L4  L5  Fountain

V

VTA

DROP-OFF

Parking Lot A

CARPOOL

Parking Lot B

e-car

Peppertree Lane

East Entrance

Parking Lot C

Stelling Parking Structure

V

ETS  Classrooms
MQ-1  MQ-2  MQ-3

Mod Quad C

Tennis Courts

Soccer Field

Baseball Field

Softball Field

Staff Parking Parking Lot C1

Stadium and Track

Football Field

Kirsch Center

ESA Lab

Cheeseman Environmental Study Area

EMERGENCY EXIT

McClellan Road

South Entrance

McClellan Road

## LEGEND

- **911** Emergency Phone
- Pay Phone
- Restrooms
- **GN** Gender Neutral Restrooms
- TTY Phone
- County Transit
- **D** Division Offices
- Elevators
- Motorcycle Parking
- **CARPOOL** Carpool Parking
- Handicapped Parking
- **VTA** Para Transit Drop Off
- AED (Automated External Defibrillator)
- **P** Parking Permit Machine
- Pedestrian Pathways
- **V** 30-Minute Visitor Parking
- **DROP-OFF** Passenger Drop-Off
- **e-car** EV Charging
- DASB Bike Rental Corral

N  W  E  S

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