SOLANO
COMMUNITY COLLEGE

SOLANO COMMUNITY COLLEGE

# 2023 | 2024

# CATALOG

solano.edu | 707-864-7000

# 2023-2024
# General Catalog

This catalog encompasses Fall semester (August-December 2023); and Spring semester (January-May 2024).

Catalog Revised 8/2022

## *www.solano.edu*

**A public community college serving the Northern California communities of Benicia, Dixon, Fairfield, Suisun, Travis Air Force Base, Vacaville, Vallejo, and Winters**


**Solano Community College Fairfield Campus**
4000 Suisun Valley Road, Fairfield, CA 94534-3197
(707) 864-7000

**Vacaville Center**
2001 North Village Parkway, Vacaville, CA 95688
(707) 863-7836

**Vallejo Center**
545 Columbus Parkway, Vallejo, CA 94591
(707) 642-8188

**Travis Air Force Base Center**
530 Hickam Ave., Bldg. 249, Travis Air Force Base, CA 94535
(707) 424-2431

# About this Catalog

**ABOUT THIS CATALOG** - Students are expected to be familiar with the information in the Catalog, Schedule of Classes, and other publications relating to student attendance and conduct. Since this Catalog is prepared in advance of the period of time it covers, changes may occur in some programs and regulations. Courses as described in this Catalog are subject to change without notice, and some listed courses are not offered each year. The College reserves the right to adjust fees, conditions of enrollment, class offerings, and services as dictated by local and state mandates, the limits of institutional resources, and enrollment conditions. Consult the current Schedule of Classes for supplementary information and updated requirements.

**OPEN ENROLLMENT POLICY** - It is the policy of the District that, unless specifically exempted by state statute, every course section or individual course which is eligible for state apportionment shall be open for enrollment by any person who has been admitted to the College, meets the course prerequisites, and has paid required fees.

**EQUAL OPPORTUNITY** - The Solano County Community College District is subject to all laws governing equal opportunity including but not limited to Title VI and VII of the Civil Rights Act of 1964, Executive Order No. 11246 of 1965, Title IX of the Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, California Fair Employment Practices of 1959, Americans With Disabilities Act of 1990, and the Age Discrimination and Employment Act of 1972. Solano Community College does not discriminate on the basis of sex, sexual orientation, race, color, religious creed, national origin, marital status, veteran status, medical condition, age (over 40), pregnancy, disability, and political affiliation in its education programs and employment practices. Inquiries concerning compliance or complaints may be addressed to Human Resources: (707) 864-7128.

**ALTERNATIVE MEDIA** – This document can be made available in alternate formats for persons with disabilities. To request an alternate format for this document please contact the Alternate Media Office at (707) 864-7000 ext. 4466 or ***altmedia@solano.edu.***

**Please recycle responsibly.**

# Superintendent-President's Welcome!

*Welcome to Solano Community College*

*On behalf of the faculty and staff at Solano Community College (SCC), I want to welcome you and congratulate you for choosing SCC. Our vision is clear: we want to be a recognized leader in educational excellence – transforming students' lives.*

*We have three campuses conveniently located near you: our Fairfield campus, the Vallejo Center, and the Vacaville Center. We also offer classes at Travis Air Force Base and online. Your decision to pursue a college education, whether it's a degree, a certificate, or transfer to a four-year college, is an important goal and our faculty and staff are here to help you succeed.*

*This catalog provides you with information you need to be successful at Solano Community College. You will find our academic and student policies; information on degrees, certificates, and requirements for transferring to a four-year college; and the names of our dedicated faculty and staff. In these pages you can also look up course descriptions and requirements for completing your degree or certificate as well as additional information on student services, including counseling, tutoring, and financial aid. Our entire College Catalog is also available online at www.solano.edu.*

*We are committed to providing a dynamic, supportive learning environment for the students and community we serve. Our centers and the main campus offer day, evening and Saturday classes, in-person and online, and a variety of support services, and co-curricular activities (clubs, job fairs, etc.).*

*SCC is one of the few California community colleges offering a Bachelor's Degree in Biomanufacturing. Classes are held in a state-of-the-art building at our Vacaville Center located in what will soon be the Biotechnology Hub for Solano County. Our Vallejo Center offers two Sonoma State University (SSU) Bachelor Degree programs- Liberal Arts and Business. Students transition from SCC lower division courses into SSU upper division courses without having to leave Vallejo.*

*It's time to experience all that SCC has to offer. Take advantage of our programs and services to advance life-long learning, to upgrade your job skills, or to complete your educational goal. If it has been a while since you enrolled with us, I encourage you to return and enroll in one or more classes..*

*We look forward to seeing you.*

Celia Esposito-Noy, Ed.D. Superintendent-President
Solano Community College

# Solano Community College

Solano Community College is a tradition in Solano County. Established in 1945 as Vallejo Junior College, Solano was part of the Vallejo Unified School District until 1967 when the College became a countywide institution. The 192-acre campus, centrally located just off Interstate 80, was completed in 1971 and opened with 5,000 students. Since then, facilities, programs, staff and services have expanded to meet the growing needs of a growing county.

Solano Community College is part of California's public community college system of 116 campuses in 72 districts across the state. The College's service area encompasses the communities of Benicia, Dixon, Fairfield, Suisun, Vacaville, Vallejo and Travis Air Force Base as well as Winters in Yolo County. Many graduates of the area's 16 public high schools and three private schools take advantage of the educational opportunities offered by Solano Community College.

Solano's classes are held during two semesters each year (spring and fall) and summer session. Flexible scheduling, designed for students' convenience, includes day, evening, and Saturday classes, held both on and off campus and online. Short-term classes, open-entry/open-exit formats, and special interest workshops and seminars add to this scheduling flexibility.

With the current student population of over 8,000 taking classes during both day and evening, the Solano Community College campus is alive at all hours offering academic study and occupational training to all area residents.

# Mission and Vision

## MISSION

Solano Community College's mission is to educate a culturally and academically diverse student population drawn from our local communities and beyond. We are committed to student learning and achievement and to helping our students achieve their educational, professional, and personal goals. Solano transforms students' lives with undergraduate education, transfer courses, career-and-technical education, certificate programs, workforce development and training, basic-skills education, and lifelong-learning opportunities.

*The mission shall be evaluated and revised on a regular basis.*

## VISION

Solano Community College will be a recognized leader in educational excellence— transforming students' lives.

# Core Values and Code of Ethics

## CORE VALUES

**Integrity**

Firm adherence to a code of ethical values in thought and behavior

**Critical Thinking**

The use of intellectually disciplined, logically sound processes involving data-driven decision making

**Mutual Respect**

Valuing the intrinsic worth of each person in an atmosphere of collegiality

**Collaboration**

Working together across areas of responsibility or interest to achieve common goals and objectives

**Innovation**

The search for and use of effective processes or procedures

**Accountability**

Individual and collective responsibility for achieving the highest level of performance

**Student Well-being**

Considering and addressing the impact on students of any and all actions or inactions

## CODE OF ETHICS - POLICY 4100

The Code of Ethics serves to articulate values that the college embodies and promotes:

- Act with uncompromising integrity, dignity, respect, and fairness, and promote a spirit of collegiality campus-wide.
- Recognize and work to meet the College's responsibility to all citizens of the District to provide an educational program of the highest quality.
- Maintain and support transparency, communication, and equity in governance of the College, and in relationship to the community.
- Commit to the advancement and protection of academic freedom for all members of the institution.

# Accreditation, Governance, and Memberships

## ACCREDITATION AND APPROVALS

Solano Community College is accredited by the Accrediting Commission for Community and Junior Colleges, Western Association of Schools and Colleges, 428 J Street, Suite 400, Sacramento, CA, 95814, (415) 506-0234, an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education. Additional information about accreditation, including the filing of complaints against member institutions, can be found at: ***www.accjc.org***.

### APPROVALS

*Nursing* - California State Board of Registered Nursing
*Certified Nursing Assistant* - California Department of Public Health
*Cosmetology* - California State Board of Barbering and Cosmetology
*Veterans Training* - U.S. Department of Veterans Services
*Active-Duty Training* - Department of Defense
*Foreign Student Education* - U.S. Immigration Service (USCIS)

### CERTIFICATION

*Aeronautics Program* - Federal Aviation Administration (FAA) in accordance with CFR14, FAR Part 147

## GOVERNANCE AND FUNDING

Solano Community College is a public community college funded by a combination of state and local tax dollars. The seven-member Board of Trustees of the Solano Community College District governs the College. Board members are elected at large from the representative areas of the district and serve four-year terms. Solano Community College is under the direction of its Superintendent-President, who, with faculty and staff, administers the College and oversees the implementation of Board policies.

The Solano Community College Governing Board meets the first and third Wednesdays of each month at 6:30 p.m. For room locations of the meetings, visit ***www.solano.edu/governing_board/*** for the most current meeting information. All meetings, with the exception of closed sessions, are open to public participation. Agendas and meeting minutes are available from the Superintendent-President's office and on the Solano Community College District website ***www.solano.edu .***

## EDUCATIONAL FOUNDATION

The Solano Community College Educational Foundation was established in 1985 by District residents to support the continuation of a quality college for Solano County. As an independent, non-profit organization, the Foundation is designed to solicit, receive, and expend funds to support College programs, activities, and facilities, and assist the College in meeting essential needs that reach beyond the limits of state funding. Through fund raising efforts such as the Alumni Development Campaign, Corporate Gift Giving, Endowments, Major Campaigns and Charitable Remainder Trusts, the Foundation has provided funds for the library, nursing and pre-engineering programs, a Student Placement Center, and for campus signs. Governed by a board of community directors, the Foundation provides an avenue for individuals and businesses to make tax-deductible donations to support the work of Solano Community College. Call (707) 864-7177 or visit the website ***foundation.solano.edu*** for more information on donating to the Foundation.

## MEMBERSHIPS

- American Association of Community Colleges (AACC)
- American Library Association
- Chambers of Commerce of Benicia, Fairfield, Vacaville, and Vallejo
- Community College League of California (CCLC)
- Directors of Educational Technology/California Higher Education (DET/CHE)
- EDUCAUSE
- Learning Resources Association of California Community Colleges (LRACCC)
- National Association of Student Financial Aid Administrators (NASFAA)
- National Association of Student Personnel Administrators (NASPA)
- National Association of Veterans Program Administrators (NAVPA)
- Research & Planning Group of CA Community Colleges
- Solano County Economic Development Corporation (Solano EDC)
- Western Association of Veteran Education Specialists (WAVES)

# Strategic Plan Goals

## STRATEGIC PLAN GOALS

The Solano Community College Goals and Objectives Have a Foundation in Equity and Integrity in Action

### Goal 1: Honor and empower students by helping them succeed in achieving their educational and career goals

**Objective 1.1:** Create clear and accessible Guided Pathways for all degrees and certificates to help students' education planning and attainment.

**Objective 1.2:** Ensure access to student support programs and services without regard to circumstances or identity.

**Objective 1.3:** Foster a student's sense of belonging and community within their discipline and within the College.

### Goal 2. Honor and empower students to transfer in a timely fashion

**Objective 2.1:** Empower students to explore, select and complete a transfer pathway.

**Objective 2.2:** Increase outreach and resources for transfer students.

**Objective 2.3:** Empower students to complete college level math and English in their first year by offering guided self-placement and support services.

### Goal 3: Honor and empower students to attain their education goals in a timely fashion while embracing the process of learning

**Objective 3.1:** Orient and direct students to programs of interest based on their career goals.

**Objective 3.2:** Increase the number of applicable units completed in the first year.

### Goal 4. Honor and empower students to gain meaningful employment/careers in their chosen field fo study

**Objective 4.1:** Increase the number of students participating in internships and/or work experience opportunities.

**Objective 4.2:** Connect SCC programs to local industries and businesses to increase employment opportunities.

### Goal 5: Honor and empower student equity and success by eliminating equity gaps with a focus on disproportionately impacted populations

**Objective 5.1:** Reduce the equity gaps for completion of a degree or certificate for traditionally underrepresented student groups.

**Objective 5.2:** Reduce the equity gaps for traditionally underrepresented student groups transferring to UC or CSU.

**Objective 5.3:** Reduce the equity gaps for traditionally underrepresented student groups so they can attain their education goals in a timely fashion.

**Objective 5.4:** Reduce the equity gaps for traditionally underrepresented student groups acquiring employment in their field of study.

# Strategic Plan Goals

## Goal 6: Strengthen ties to the community and local school districts to ensure access to college for all students.

**Objective 6.1:** Strengthen connections to local area high schools through articulation agreements and dual enrollment, where appropriate, as well as regular high school outreach.

**Objective 6.2:** Strengthen ties to community groups that serve or represent DI populations (e.g. adult schools, churches, mosques, Pride organizations).

## Goal 7: Honor and empower the college community by maintaining adequate and sustainable financial resources to create an environment that supports teaching and learning.

**Objective 7.1:** Maintain reserves that equal or exceed the state average for California community colleges.

**Objective 7.2:** Engage all constituencies of the college community in financial planning to ensure transparency.

**Objective 7.3:** Implement and expand sustainability practices across facilities and educational programs.

**Objective 7.4:** Prioritize maintenance on existing buildings to ensure a safe and pleasing learning environment.

## Goal 8: Maintain a campus culture that honors and empowers teaching and learning.

**Objective 8.1:** Proactively recruit and train diverse candidates for faculty and staff positions.

**Objective 8.2**: Develop new faculty/staff orientation and training programs.

**Objective 8.3:** Develop safe space training and support safe spaces on campus.

# Institutional Learning Outcomes (ILOs)

Given the diversity of educational goals of our students and the length of their study, they will be proficient in the following areas to the extent required of their courses and/or program of study. These outcomes are neither course nor program specific but are meant to be applicable to all students.

**Communication Competency**

Students will effectively communicate ideas and information through writing, speaking, performance, art, or other modes of expression

**Information Competency**

Students will be conversant in the vocabulary and concepts of the discipline and be able to use discipline-appropriate tools to locate and retrieve relevant information effectively, upholding academic and ethical integrity

**Quantitative Competency**

Students will solve problems and interpret findings using appropriate mathematical, statistical, and scientific techniques

**Technical Competency**

Students will increase knowledge of social, economic, and environmental trends from local to global perspectives

**Analytic Inquiry**

Students will engage in critical thinking to discover and apply information to the analysis of problems

**Ethics**

Students will identify ethical issues and apply ethical principles to discipline specific problems

**Global Awareness**

Students will demonstrate an understanding of how diverse cultural beliefs and practices impact behavior and forms of expression. They will be able to articulate how social, economic, environmental, and political events impact society

**Personal Growth**

Students will manage personal health and well-being, including engaging in self-reflection to facilitate personal insight

**Professional Development**

Students will demonstrate effective workplace behaviors such as appropriate communication, professionalism, decision-making, and time management

# General Education Outcomes (GELOs)

Upon completion of Solano Community College's General Education program, a student will demonstrate competency in the following areas:

### Communication and Critical Thinking

**SCC-GE, Area D** **IGETC, Area 1 and 6** **CSU GE, Area A**

- Students will develop their writing, listening and speaking skills to communicate effectively
- Students will engage in critical thinking to analyze problems and consider potential solutions

### Scientific Inquiry and Quantitative Reasoning

**SCC-GE, Area A** **IGETC, Area 2 and 5** **CSU-GE, Area B**

- Students will engage in scientific inquiry to discover and apply information to the analysis of data and/or scientific phenomena
- Students will solve problems using appropriate mathematical and/or statistical techniques

### Arts and Humanities

**SCC-GE, Area C** **IGETC, Area 3** **CSU-GE, Area C**

- Students will exhibit an understanding of the ways in which people in diverse cultures and eras have produced creative works
- Students will analyze significant events and/or works from the past, including cultural and regional influences
- Students will create works through diverse forms of expression

### Social Sciences

**SCC-GE, Area B** **IGETC, Area 4** **CSU-GE, Area D**

- Students will analyze human behavior in a variety of contexts
- Students will investigate the social, political, economic, historical, geographical, and/or psychological forces that impact individuals, groups, and society

### Lifelong Learning and Self Development

**SCC-GE, Local District Requirement** **CSU-GE, Area E**

- Students will demonstrate knowledge of the physical, psychological, cognitive, and/or developmental practices that foster personal well-being and human development

### Cross-Cultural Studies

**SCC-GE, Area E**

- Students will analyze cross-cultural beliefs, practices, and forms of expression to gain a rich understanding of self and others

# Class Locations and Campus Maps

On- and Off-campus classes: Classes and Counseling services are offered at the Main Campus and the three off-campus centers. Classes are also offered at other locations throughout Solano County.

***Main Campus***
4000 Suisun Valley Road, Fairfield

***Vacaville Center***
2001 N. Village Parkway, Vacaville

***Vallejo Center***
545 Columbus Parkway, Vallejo

***Travis Air Force Base (TAFB)***
Travis University Center
Building 249 at 530 Hickman, Travis AFB

Visit ***www.solano.edu/tafb*** for TAFB security requirements prior to registering for classes. Students must be enrolled in classes at TAFB in order to receive SCC services on Base.

***Other Locations***
Vallejo Automotive Technology
1687 North Ascot Parkway, Vallejo

Nut Tree Airport (Aeronautics)
275 County Airport Road, Vacaville

Various high school locations throughout the region

California State Prison Solano (CSPS)
California Correctional Medical Facility (CMF), Vacaville
*(classes at CSPS and CMF are not open to the general public)*

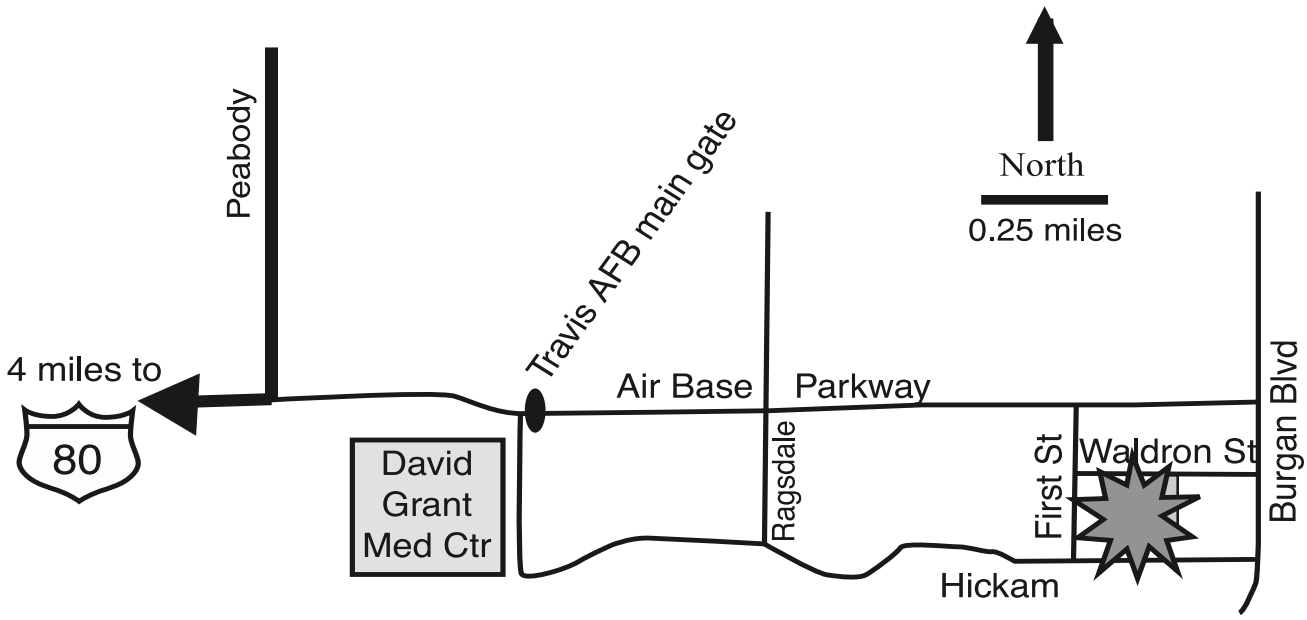
ONLINE codes
ONLN
OVJO
OVV

For specific locations and times, registration, and other information, refer to the Schedule of Classes at the SCC website ***www.solano.edu*** or contact the Admissions and Records Office at (707) 864-7171 or email ***admissions@solano.edu***.

Parking permits are required at the Main Campus and the three off-campus centers. Permits must be placed as indicated on the permit directions. Parking fees are subject to change. An appeal process is available to contest parking citations.

For more information regarding parking, visit ***www.solano.edu/police*** or email at ***parkingservices@solano.edu*** or call (707) 864-7131.

# Campus Maps - Travis Air Force Base




The Travis AFB University Center is located in Building 249 at 530 Hickam Avenue on Travis Air Force Base. To get to the Center, take the Air Base Parkway exit off of I-80 and follow it until it ends at the Travis Main Gate. Instructions for obtaining a pass are located below. After obtaining a pass, proceed through the Main Gate, staying on the same street. Turn right onto First Avenue, then left on Waldron Street. About half way down the length of the street, turn right into the parking lot. Drive to the back of the lot; the University Center is on the right. Parking is available in any vacant space.

**TRAVIS AIR FORCE BASE GATE PROCEDURE:**

All non-military students must be registered in a class that meets at TAFB to receive a pass to enter the base. Students registered for TAFB classes will be able to obtain a base pass the day class begins at the Visitor Control Center, 615 Airbase Parkway, located on the left-hand side before the main gates. Be advised it could take at least one hour or more to obtain a base pass. All registered students are required to present all of the documents listed below:

1. A Real ID. If you do not have a REAL ID you may use your driver's license. If your driver's license states "Federal Limitations" you will be required to bring your U.S. Passport and Social Security Card.
2. Valid car registration (this must be the vehicle you will drive to class each week)
3. Valid proof of vehicle insurance.
4. Proof of enrollment in a class at TAFB (a registration printout showing class(es)).
5. TAFB personnel may require other forms of identification.

**IMPORTANT:** Students must have their own transportation. Anyone in an automobile without military ID, or an authorized semester pass, will not be admitted on TAFB.

To add a class located at the TAFB center

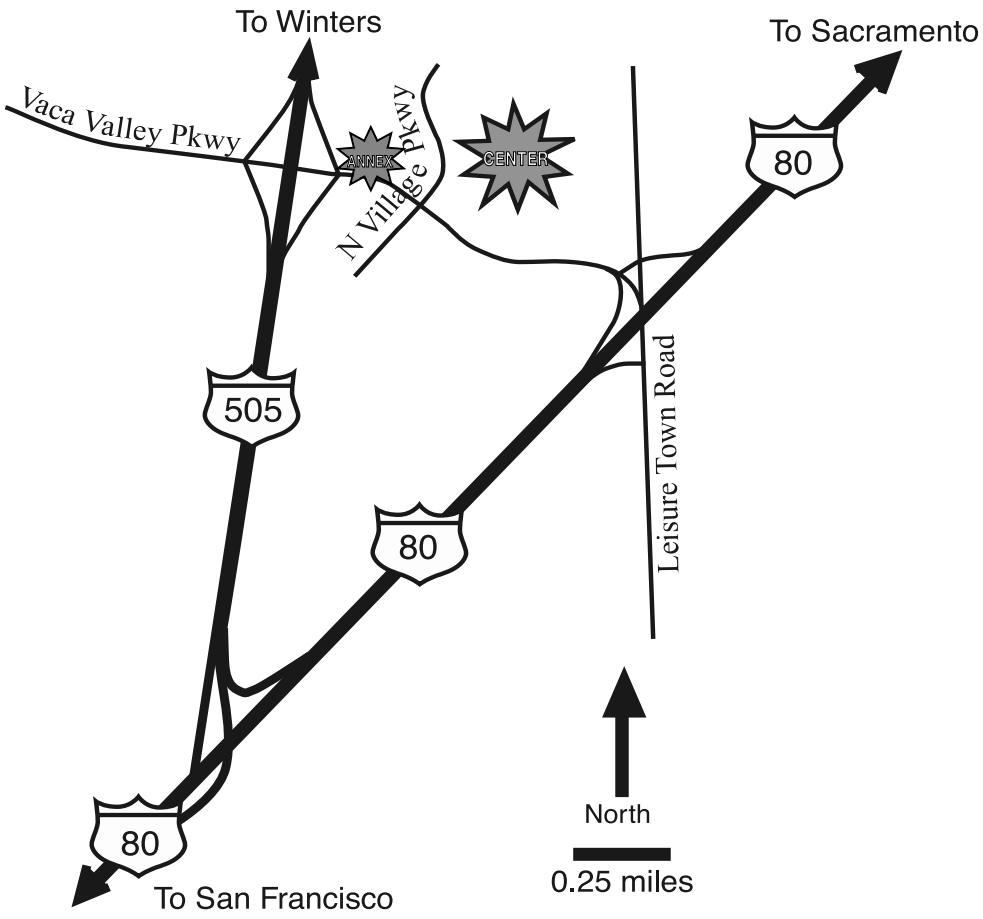
- Contact the instructor to obtain an “Add [Authorization] Code”
- Enroll in the course prior to being admitted to the Base. Contact the SCC TAFB office to inform them of enrollment.

Center Hours:

| | |
|---|---|
| Monday-Thursday | 9:00 am - 6:00 pm |
| Friday | Closed |

For additional information please go to: ***www.solano.edu/tafb***
or call the Travis Air Force Base University Center at (707) 863-7878

# Campus Maps - Vacaville Center




The Solano Community College Vacaville Center is located north of the City of Vacaville at 2001 North Village Parkway. Turn onto North Village Parkway (formerly known as 1990 Akerly Drive), just off of Vaca Valley Parkway.

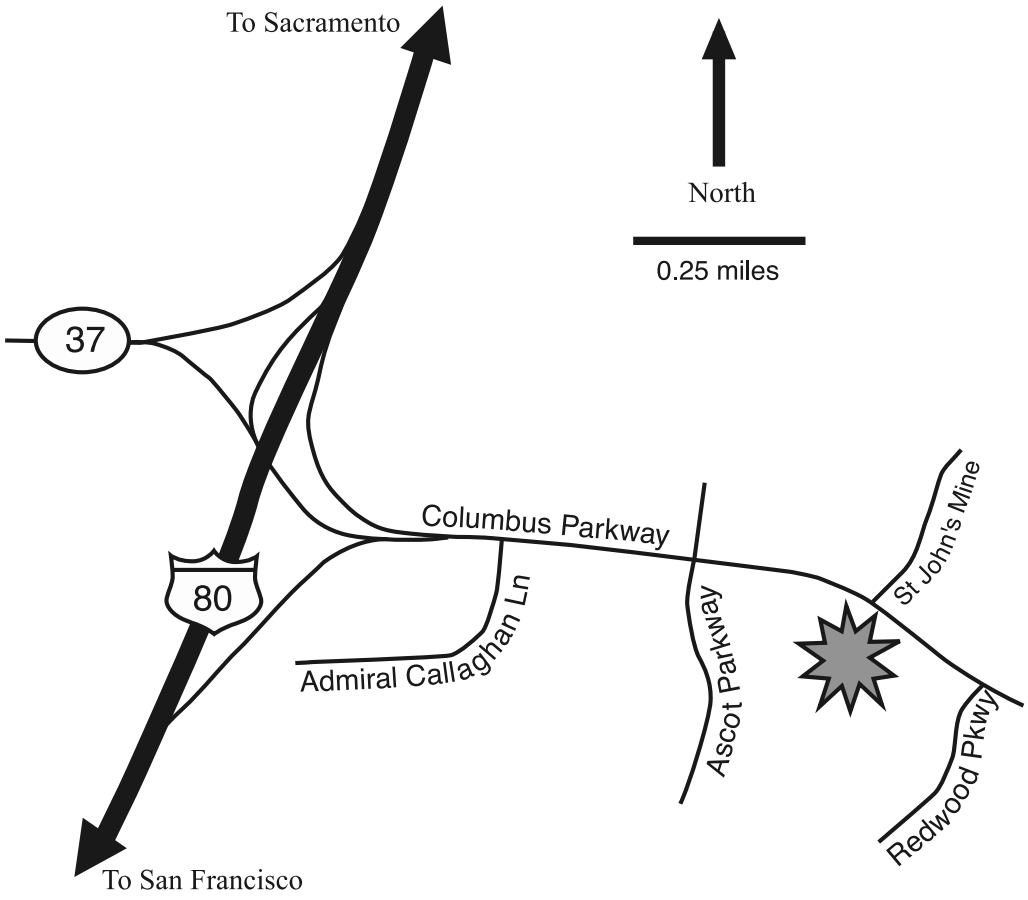
**DIRECTIONS FROM FAIRFIELD/VACAVILLE:**
Take I-80 East to I-505 and drive about 1/2 mile to the Vaca Valley Parkway exit. Turn right at the exit ramp stoplight on to Vaca Valley Parkway and go one block to North Village Parkway. Turn left at the stoplight on to North Village Parkway; the parking lot entrance to the Center is visible on the right side of the street within a distance of 1/2 block.

**DIRECTIONS FROM DAVIS/DIXON:**
Take I-80 West to the Leisure Town Road exit. Turn right onto Vaca Valley Parkway. Continue straight for approximately 1/2 mile to North Village Parkway and turn right at the stoplight. Turn right into the parking lot entrance to the Center.

**PARKING:**
Parking passes are $32 per vehicle for Fall/Spring Semesters and $16 for Summer they may be purchased online through your MySolano account. The permit is valid for the Fairfield campus, the Vallejo and Vacaville Centers, and the Vallejo AutoTech Center. Daily parking permits are available for $2 from the machines located in the parking lots and are valid for all campus locations.

For additional information please go to: ***www.solano.edu/vacaville/***
or call the Vacaville Center at (707) 863-7836

# Campus Maps - Vallejo Center




The Solano Community College Vallejo Center is located at 545 Columbus Parkway.

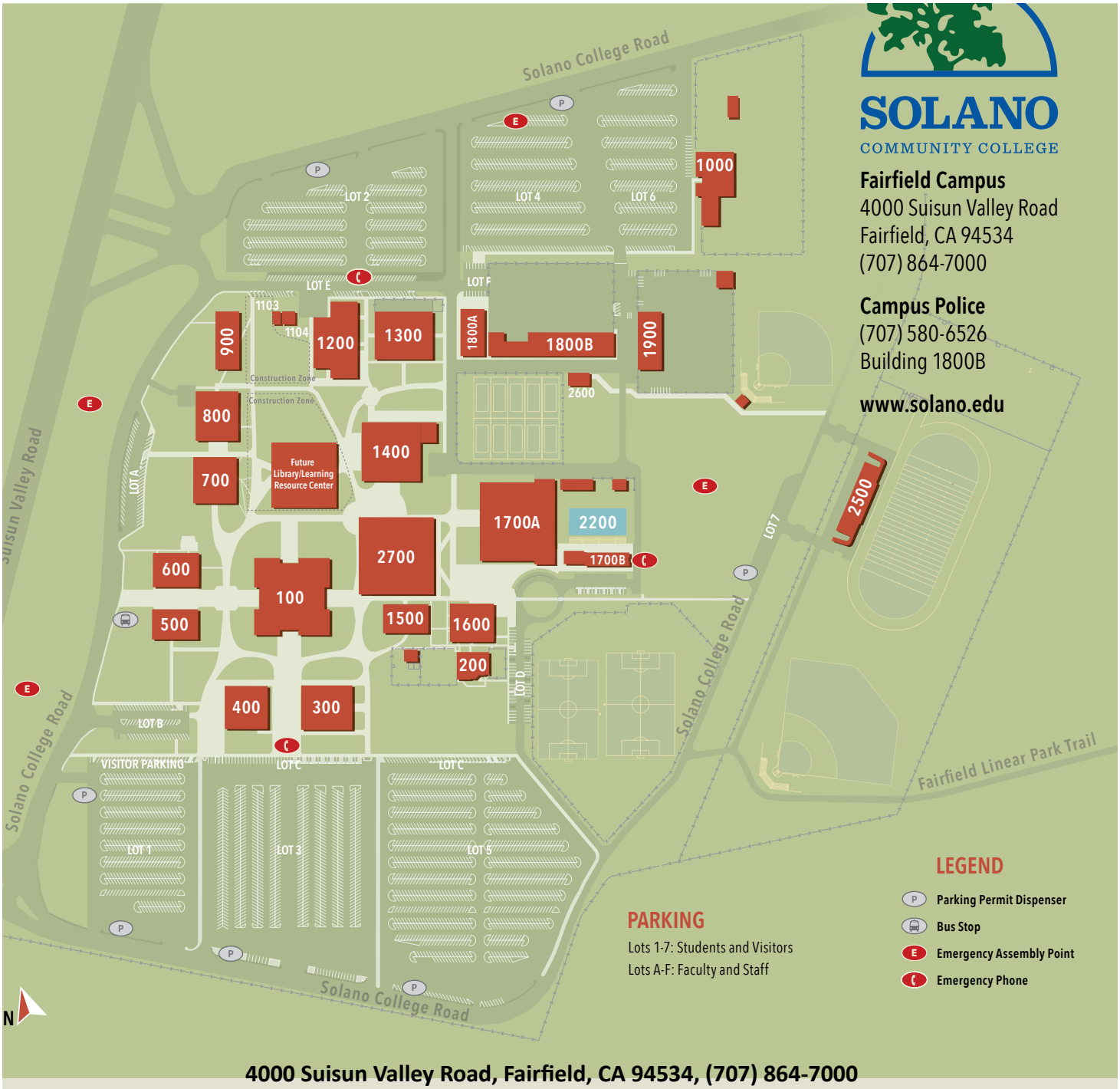
**DIRECTIONS FROM**
**FAIRFIELD/VACAVILLE/DAVIS/DIXON**
Take I-80 toward San Francisco and exit at Columbus Parkway. The Solano Community College Vallejo Center is located approximately 1 & 1/2 miles on the right.

**DIRECTIONS FROM**
**PLEASANT HILL/CONCORD/WALNUT CREEK**
Take 680 North to 780 West. From 780 West take I-80 East toward Sacramento. Exit at Columbus Parkway. The Solano Community College Vallejo Center is located approximately 1 & 1/2 miles on your right.

**PARKING:**
Parking passes are $32 per vehicle for Fall/Spring Semesters and $16 for Summer they may be purchased online through your MySolano account. The permit is valid for the Fairfield campus, the Vallejo and Vacaville Centers, and the Vallejo AutoTech Center. Daily parking permits are available for $2 from the machines located in the parking lots and are valid for all campus locations.

For additional information or inquiries please go to ***www.solano.edu/vallejo***
or call the Vallejo Center at (707) 642-8188.

# Campus Maps - Main Campus, Fairfield




**4000 Suisun Valley Road, Fairfield, CA 94534, (707) 864-7000**

| | |
|---|---|
| 600 | Administration |
| 400 | Admission & Records |
| 400 | Assessment Center |
| 600 | Boardroom |
| 1400 | Bookstore |
| 500 | Business |
| 1400 | Cafeteria |
| 400 | CalWORKs |
| 1800B | Campus Police |
| 400 | CARE Program |
| 1800 | Career Technical Education |
| 400 | Career & Employment Services |
| 200 | Children's Programs Center |
| 1500 | Computer Science |
| 100 | Contract Education |
| 1600 | Cosmetology |
| 400 | Counseling |
| 1900 | Deliveries/Receiving Warehouse |
| 400 | Disability Services Program |
| 1500 | Engineering |
| 400 | EOPS |
| 900 | Faculty Offices |
| 600 | Finance & Personnel Office |
| 400 | Financial Aid |
| 1300 | Fine Arts |
| 100 | Foundation |
| 1000 | Horticulture |
| 700 | Humanities |
| 400 | Information |
| 600 | Vice Presidents' Offices |
| 100 | Library |
| 1500 | Math |
| 1900 | Maintenance |
| 400 | MESA Program |
| 800 | Nursing |
| 1200 | Performing Arts/Theatre |
| 1700 | Physical Education |
| 600 | President's Office |
| 2600 | Restrooms |
| 300 | Science/ECHS |
| 2700 | Science |
| 700 | Social Science |
| 2500 | Stadium |
| 1400 | Student Center |
| 1400 | Student Health Services |
| 400 | Student Services |
| 2200 | Swimming Pool |
| 400 | Transfer Center |
| 100 | Tutoring Center |
| 2700 | Veterans Resource Center |
| 100 | Workforce Development |

# Policies and Rights

## CIVIL RIGHTS/TITLE IX

**Open Access & Non-Discrimination** is the policy of the Solano Community College District, based on California Title 5 regulations, that no person, on the basis of ethnic group identification, national origin, religion, sexual orientation, age, sex, race, color, or physical or mental disability, shall be unlawfully subjected to discrimination under any program or activity that is funded directly by, or that receives any financial assistance from, the Chancellor or Board of Governors of the California Community Colleges.

Other forms of unlawful/prohibited discrimination under federal and state law include discrimination on the basis of race or national origin. Further, the College District, in compliance with state law, will not tolerate behavior by students or staff which insults, degrades, threatens, stereotypes, or otherwise discriminates on the basis of marital status, pregnancy, sexual orientation, political activities or affiliation and/or medical condition. In addition, Solano Community College has identified another form of discrimination not recognized by the Chancellor's Office and the State of California to include veteran status. Complaints should be filed with Human Resources. No one shall retaliate against anyone who files a discrimination complaint or participates in an investigation, or against anyone who is a representative of an alleged victim or an alleged offender.

***"TITLE IX" of the Education Amendment of 1972*** provides the starting point that guarantees the right of students, faculty, staff, and administration to be free of sexual discrimination and harassment. These guarantees apply to access to educational opportunities and courses, counseling and guidance services, treatment of students, access to personal records, athletics, financial assistance, the educational environment and work experience. Any inquiries related to "Title IX" concerns of sexual discrimination or harassment should be reported directly to the Title IX Administrator of the Solano Community College District, through Human Resources.

***The Americans with Disabilities Act of 1990*** provides individuals with disabilities equal educational opportunities, programs, and services. To ensure equality of access for students with disabilities, academic accommodations and auxiliary aids shall be provided to the extent necessary to comply with state and federal law and regulations. Academic accommodations and auxiliary aids shall specifically address those functional limitations of the disability which adversely affect equal educational opportunity. If students feel their accommodations have not been made, they may file a complaint with Human Resources.

## ACADEMIC FREEDOM - FACULTY

The Solano Community College District affirms its belief in the academic freedom of its full time and adjunct faculty and students to engage in any teaching, studying, research, writing, and criticism deemed appropriate by such individuals to the spirit of free inquiry and pursuit of truth.

As stated in Academic Freedom and Tenure (Handbook of American Association of University Professors, 1969):

> "...academic freedom consists in the absence of, or protection from, such restraints or pressures - chiefly in the form of sanctions, threatened by the state or church authorities or by the authorities, faculties, or students of colleges and universities, but occasionally also by other power groups in society - as are designed to create in the minds of academic scholars (teachers, research workers, and students in colleges and universities) fears and anxieties that may inhibit them from freely studying and investigating whatever they are interested in, and from freely discussing, teaching or publishing whatever opinions they have reached. "

Since these rights of academic freedom carry responsibilities with them, each faculty member and student should strive to be accurate, should exercise appropriate restraint, show respect for the opinions of others, and must indicate that they do not speak, necessarily, for the College.

# Policies and Rights

## STUDENT RIGHTS

**Academic Freedom** - Every student is guaranteed the right of full expression and advocacy, consistent with established District policy and regulations (Board Policy §5580). To this end, a "Hyde Park" location has been designated near the Student Center (Building 1400). This is the area where peaceful assembly may take place for the purpose of free expression and exchange of ideas by the students and staff of the College. Outside speakers and groups must be sponsored by a campus organization, faculty member or administrator.

The "Hyde Park" area is available five days a week, from 9 a.m. to 5 p.m., unless otherwise reserved. Scheduling of this area must be done through the Office of Student Life (Room 1425) prior to the activity.

Speech, with or without electronic amplification, shall not interfere with nor disrupt the orderly operation of the College, including classroom instruction, registration procedures, public programs, and athletic events. The expression of obscene, libelous, or slanderous statements, according to current legal standards, or statements which so incite students as to create a clear and present danger of the commission of unlawful acts on campus premises or the violation of College regulations or the substantial disruption of the orderly operation of the College are prohibited.

**Privacy Act:** Students at Solano Community College are guaranteed certain rights regarding their school records and information which they provide to the College (Family Educational Rights and Privacy Act of 1974, Section 438, Public Law 93-380). These rights include:

1. The right to inspect and review official college records.
2. The right to challenge the accuracy of the records.
3. The right of controlled access and release of information.

These rights are designed to protect the privacy of all students. A photo identification is required before releasing information. Official College records are kept in the Admissions and Records office. The Dean of Enrollment Services has been designated "Records Officer," as required by the Act.

**Release of Student Information:** Student information cannot be released without the written consent of the student as provided for in the ***Family Educational Rights and Privacy Act of 1974.***

**Rights to Privacy:** While the College does not provide general directory services, it may (by law under special circumstances) release the following information about a student: name, address, telephone number, date of birth, major field of study, participation in officially recognized sports, height and weight of members of athletic teams, dates of attendance, and degrees and awards received. If a student does not wish such information to be released, notify the Admissions and Records office in writing.

Directory information may be released at the discretion of the College to persons or agencies, such as the National Student Clearinghouse, which the College deems to have legitimate reason for access to the information. To prevent disclosure, written notification must be sent to the Admissions and Records office.

The College is required to release student names, addresses, and telephone numbers to armed forces recruiters, per the Solomon Act, without first obtaining a student's permission. In addition, the College is required to release information to the U.S. Department of Education and the Federal Internal Revenue Services about fees paid and financial aid received according to the ***Hope and Opportunity for Post Secondary Education Act of 1997***.

**Student Equity:** The mission of the California Community Colleges is to serve the educational needs of all residents of the State, regardless of the educational or socioeconomic background, ethnic, or cultural heritage of students seeking higher education opportunities. The College provides programs and services to ensure that all students have the opportunity to succeed academically. The overarching equity goal at Solano Community College is to provide a teaching and learning environment that is welcoming, supportive, and accessible to all participants, regardless of ethnicity, culture, nationality, language, disability, gender, sexual orientation, or religion, and to ensure that all students have an equal opportunity for academic success.

# Policies and Rights

## STUDENT RIGHT-TO-KNOW DISCLOSURE

Education is fundamental to the development of individual citizens and the progress of the Nation as a whole. There is increasing concern among citizens, educators, and public officials regarding the academic performance of students at institutions of higher education. Prospective students and prospective student athletes should be aware of the educational commitments of an institution of higher education. Knowledge of graduation rates helps prospective students and prospective student athletes make an informed judgment about the educational benefits available at a given institution of higher education.

Compliance with the Student Right-to-Know and Campus Security Act of 1990 completion and transfer rate statistics can be viewed at ***http://srtk.cccco.edu/index.asp.***

## STUDENT COMPLAINTS AND GRIEVANCES

When students believe their individual rights, or rights to due process (as provided for by College policies, state laws, and/or federal laws) have been denied, they may seek redress through the formal complaint or grievance procedure.

**Student Complaints: Unlawful/Prohibited Discrimination Policy and Complaint Resolution Procedures (§4285) and Sexual Harassment Policy (§4270)**

In the event that any student believes that an act of prohibited and unlawful discrimination involving ethnic group identification, religion, age, sex, color or physical or mental disability, race, national origin, marital status, pregnancy, political activities or affiliation, medical condition, veteran status, or sexual orientation has been directed against them by another student, staff member, group or campus organization, the student may file a complaint with the Human Resources Department, (707) 864-7128.

At any time the student may submit their complaint to any of the following agencies: California Department of Fair Employment and Housing at (800) 884-1684; U.S. Department of Education, Office for Civil Rights at (800) 872-5327; California Community College Chancellor's Office at (916) 322-4005, and Equal Employment Opportunity Commission at (800) 669-4000.

**Student Grievances: Non-Civil Rights (§5350)**

A grievance may arise from a decision or action that has an adverse effect on a student with respect to their educational rights. It may arise when a student believes they have been denied educational rights provided by college, state, and federal policies, rules or regulations.

Copies of Solano Community College's current procedures on "Student Grievances: Non-Civil Rights (§5350)" are available free, upon request, from the Vice President of Student Services, or designee (Room 604) ***solano.edu/district_policies/series5300_ student_rights.php*** These procedures outline the steps to file a grievance, describe the hearing process, and establish the time limits under which these procedures operate.

## ACADEMIC INTEGRITY

At the heart of any institution of higher learning is the fundamental right of Academic Freedom for which Honesty and Integrity are preconditions. Academic Integrity is therefore fundamental to the Solano Community College community. Academic Integrity is maintained only when all academic work is the product of identified individuals. Any act of Academic Dishonesty interferes with Academic Integrity and therefore with the core values of this institution. All violations of Academic Integrity on the part of any member of the academic community constitute a serious offense.

## ACADEMIC HONESTY POLICY

The College community functions best when its members treat one another with honesty, fairness, respect and trust. Therefore, an individual should realize that deception for the purpose of individual gain is an offense against the members of the College community. Violation of the Academic Honesty Policy includes but is not limited to:

1. Plagiarism – from the Latin word for "kidnap" – involves using another's work without giving proper credit, whether done accidentally or on purpose. This includes not only words and ideas, but also graphs, artwork, music, maps, statistics, diagrams, scientific data, software, films, videos and the like. Plagiarism is plagiarism whether the material is from published or unpublished sources. It does not matter whether ideas are stolen, bought, downloaded from the Internet, or written for the student by someone else – it is still plagiarism. Even if only bits and pieces of other sources are used, or outside sources reworded, they must still be cited. To avoid problems, students should cite any source(s) and check with the instructor before submitting an assignment or project. Students are also encouraged to visit the Academic Success and Tutoring Center (ASTC) for free help in understanding and preventing plagiarism. Students are always responsible for any plagiarism in their work.

2. Violation of class assignments, examination rules, e.g., communicating or transferring information to another student, using any materials such as books, notes, etc., other than those expressly allowed for the exam, looking at another student's exam, etc.
3. Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including, but not limited to, handwritten or computer generated class notes, except as permitted by any college policy or administrative procedure.

**Sanctions for Academic Dishonesty**
An instructor who determines that a student has cheated or plagiarized has the right to give a failing (i.e. "F") grade, or numerical equivalent, for the assignment or examination. Instances of alleged plagiarism or any other form of academic dishonesty may be referred to the Vice President, Student Services, for action in accordance with the established disciplinary procedures as set forth in Solano Community College Board Policy §5300.
Following procedures consonant with due process, a student may be expelled, suspended, or given a lesser sanction if they are found to have committed an act of academic dishonesty. The totality of the particular circumstances, the student involved, and any relevant mitigating factors shall be considered in every case.

**Additional Consequences of Violating the Academic Integrity Policy**
Students committing acts of academic dishonesty not only face college censure but run a serious risk of harming their future educational and employment opportunities. Prospective employers and other educational institutions frequently use recommendation forms that ask for judgment and comment on an individual's moral or ethical behavior. Many scholarship opportunities, awards and memberships to academic societies, such as honor societies or discipline-specific associations, also rely heavily on recommendations.
College faculty and administrators knowledgeable of academic dishonesty infractions are ethically bound to report such incidences. Moreover, in all cases in which a grade of "F" is assigned for disciplinary reasons, the "F" will remain on the student's transcript, even if the course is retaken and a passing grade is achieved. Lastly, many other institutions and professional environments impose a no tolerance policy on dishonesty which may result in the student being expelled or fired.

Solano Community College students are therefore obligated to develop educational habits befitting their scholastic and career goals.

## SOLANO COMMUNITY COLLEGE HONOR CODE

At Solano Community College, we believe that Academic Integrity is fundamental in an institution dedicated to personal development through learning, free inquiry, and the exchange of ideas. Honest work is an integral part of the learning process: it builds self-esteem, knowledge, and skills. It is the responsibility of every Solano Community College student to represent work truthfully and engage honestly in all assignments. We believe that any instance of academic dishonesty hurts the entire College community.

## STANDARDS OF STUDENT CONDUCT POLICY (§5300)

A student attending Solano Community College may rightfully expect that the faculty and administration will provide and maintain an environment in which there is freedom to learn. Students shall respect and obey the civil and criminal laws and shall be subject to punishment for violation of the law in the same manner as other persons. Additionally, students shall obey the policies and the rules and regulations adopted by the Solano Community College District Governing Board, and shall be subject to discipline for violation of these policies and the rules and regulations of the District and the College.

**Grounds for Disciplinary Action:** Student conduct at Solano Community College and in the activities of the College must conform to and be compatible with the College's function as an educational institution.
College-related misconduct for which students may be expelled, suspended, or given a lesser sanction may come within, but is not limited to, one or more of the following categories:

1. ***Academic Violations:***
   a. Violation of the Academic Honesty Policy includes but is not limited to cheating or plagiarism. An instructor who determines that a student has cheated or plagiarized has the right to give a failing (i.e. "F") grade, or numerical equivalent, for the assignment or examination.
   b. Violation of class assignments, examination rules, e.g., communicating or transferring information to another student, using any materials such as books, notes, etc., other than those expressly allowed for the exam, looking at another student's exam, etc.

c. Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including, but not limited to, handwritten or computer generated class notes, except as permitted by any college policy or administrative procedure.

***2. General College Violations:***

a. Dishonesty, forgery, alteration, or misuse of college documents, records, identification, or knowingly furnishing false information to the college. Abuse of and/or tampering with the registration process.
b. Obstruction or disruption of teaching, research, administration, disciplinary procedures, or other college activities, including, but not limited to, its community service functions, or of other authorized activities on college premises.
c. Engaging in an expression which is obscene, libelous, or slanderous, or which so incites students as to create a clear and present danger of the commission of unlawful acts on college premises, or the violation of lawful college administrative procedures, or the substantial disruption of the orderly operation of the college.
d. Unauthorized entry into college premises or facilities or use of college supplies, equipment, and or facilities.
e. Violation of college policies or of campus regulations including, but not limited to, campus regulations concerning student organizations, the use of college facilities, or the time, place, and manner of public expression, library procedures, college bills, debts, and parking.
f. Theft of or damage to property of the college, or of a member of the college community, or campus visitor, or knowingly receiving stolen college or private property on campus.
g. Use of personal portable sound amplification equipment and other electronic devices (radios, cell telephones, pagers, and tape players, etc.) in a manner that disturbs the privacy of other individuals and/or the programs of the college.
h. Causing or attempting to cause damage to district property or to private property on campus.

***3. Littering on campus property:*** including grounds, facilities, and parking lots.

***4. Computer Usage Violations:*** Students are to conduct themselves in accordance with Governing Board Policy 2067 regarding computer usage. Theft or abuse of computer resources, including, but not limited to:

a. Unauthorized access to a file, database, or computer to use, read, or change the contents, or for any other purpose.
b. Unauthorized transfer of a file.
c. Unauthorized use of another person's identification and password.
d. Use of computing facilities to interfere with the work of another student, faculty member, or college official.
e. Use of computing facilities to send obscene or abusive messages, or to defame or intentionally harm other persons.
f. Use of computing facilities to interfere with normal operation of the college computing system.
g. Use of computing facilities for student's personal financial gain or for solicitation of any kind

***5. Behavior Violations***

a. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the persistent abuse of college personnel on college-owned or controlled property, or at college-sponsored or supervised functions.
b. Assault, battery, or verbal abuse or conduct that threatens or endangers the health or safety of a student, college personnel, or campus visitor.
c. Hazing or any act that injures, degrades, or disgraces or tends to injure, degrade, or disgrace any student, college personnel, or campus visitor.
d. Gambling on District property.
e. Failure to identify oneself when on college property or at a college-sponsored or supervised event, upon the request of a college official acting in the performance of their duties.
f. Willful misconduct which results in injury or death to a student or to college personnel or which results in defacing, or other injury to any real or personal property owned by the District or on campus.
g. Failure to comply with directions of college officials acting in the performance of their duties, open and persistent defiance of the authority of college personnel.

h. Unauthorized entry on the campus or into the facility to which access has been denied after suspension or dismissal, during the suspension period. (CA Penal Code 626.2).
i. Committing or attempting to commit robbery or extortion.
j. Committing sexual harassment as defined by law or by college policies and procedures.
k. Engaging in harassing or discriminatory behavior based on race, sex (i.e., gender), sexual orientation, religion, age, national origin, disability, or any other status protected by law.

***6. Substance Violations***

a. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in Chapter 2 (commencing with Section 11053) of Division 10 of the California Health and Safety Code, an alcoholic beverage, or an intoxicant of any kind, or unlawful possession of, or offering, arranging, or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5, on college property, or at any college sponsored event.
b. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the Governing Board.

***7. Weapons Violations***

a. Possession, sale or otherwise furnishing any firearm, knife, explosive or other dangerous object, including but not limited to any facsimile firearm, knife or explosive, unless, in the case of possession of any object of this type, the student has obtained written permission to possess the item from a district employee, which is concurred in writing by the college Superintendent-President.
b. Possession or use of firecrackers, fireworks, pyrotechnics, or any other explosive device on any college-owned or controlled property or at any college-sponsored or supervised function.

***8. Students who engage in any of the above are subject to the measures outlined in Student Services Discipline Procedures 5300.***

**Types of Disciplinary Action:** Sanctions may be imposed for violation of the Standards of Student Conduct. One or more of the sanctions listed below may be imposed for any single or multiple violation(s). Any times specified in these procedures may be shortened or lengthened, if there is mutual concurrence by the parties. This procedure is administered by the Vice President, Student Services, or designee. Previous violations of the Student Conduct Code will be considered when determining appropriate sanctions for violations.

***Non-Appealable Sanctions***

1. Official Warning
2. Reprimand
3. Temporary Suspension by Instructor
4. Administrative Withdrawal from Class
5. Disciplinary Probation
6. Short-Term Suspension
7. Restitution
8. Campus Community Service
9. Withdrawal of Consent to Remain on Campus/ Short-Term Suspension
10. Mental Health Clearance

***Appealable Sanctions***

1. Suspension
2. Expulsion

The definition, process and implication of each of these are detailed in the District's procedures on "Standards of Student Conduct (§5300)," available in the Student Life office (Room 1425/1426), the Office of the Vice President, Student Services (Room 604), and the Counseling office (Bldg. 400).

**Student Disciplinary Procedures:** The Vice President, Student Services, or designee administers the disciplinary procedures and is authorized to take appropriate action, subject to the approval of the Superintendent/President and the Governing Board as required in the current District policies and procedures. Disciplinary action taken under these procedures may be taken regardless of anticipated, pending, or completed civil or criminal proceedings arising out of the same act or event.

Copies of the District's current procedures on "Standards of Student Conduct (§5300)" are available free, upon request, from the Office of the Vice President, Student Services (Room 604, Building 600).

## DRUG- AND SMOKE-FREE CAMPUS

In accordance with ***Public Law 101-226, the Drug Free Schools and Communities Act Amendment of 1989,*** the Board of Trustees of Solano Community College prohibits the unlawful possession, use, or distribution of illicit drugs and alcohol. District policies for Student Conduct Standards (§5300) prohibit, on college property, or at any college-sponsored event:

a. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in Chapter 2 (commencing with Section 11053) of Division 10 of the California Health and Safety Code, an alcoholic beverage, or an intoxicant of any kind, or unlawful possession of, or offering, arranging, or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5.
b. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the Governing Board.

Any student or employee in violation of this policy is subject to disciplinary action up to, and including, expulsion from Solano Community College or termination from employment for violation of the standards of conduct. The decision to take disciplinary action in any instance rests with the Board of Trustees, after consideration of the recommendation of the Superintendent-President of Solano Community College.

The possession, use and sale of alcoholic beverages by anyone on property controlled by Solano Community College, except as authorized under Board Policy (§1120), is a misdemeanor, as per California Business Code (§25608) and a violation of the standards of student conduct. The use, sale or possession of any illegal drug is a violation of State law and any person found in violation may be subject to arrest by Federal, State, local or campus law enforcement authorities. Criminal prosecution is separate from any administrative discipline that may be imposed by the District.

For reasons of health and safety, the Solano Community College District has instituted a Tobacco-Free policy. Tobacco use is prohibited on all District-owned property, including buildings, grounds, and parking lots (Board Policy §4215). It is the responsibility of all students and employees to observe this policy. SCC will follow discipline procedures for those reported to be violators. (This policy does not supersede more restrictive policies that may be in force in compliance with State or Federal regulations.)

For more detailed information and a listing of assistance contact: Student Health Center - Room 1409 Counseling Department - Building 400 Disability Services - Building 400

# Academic Regulations

Academic Council

Student Responsibilities

Grades/Grading System

Standards for Academic Probation and Disqualification

Regulations on Course Repetition & Repeatability

Academic Honors

# Academic Regulations

## ACADEMIC COUNCIL

The Academic Council deals with all matters that pertain to problems that students are having with their academic performance, enrollment status, graduation status evaluations and financial matters that pertain to the registration process.

1. The Academic Council consists of the following membership: Vice President, Student Services or designee (Chairperson); Academic Dean; Dean of Enrollment Services; one counselor; two faculty members (appointed by the Academic Senate); and one classified staff member from Student Services
2. In the event that the Vice President, Student Services or designee is unavailable, an additional Academic or Student Services Dean will be appointed to serve in their place.
3. Students may petition the Academic Council concerning any matter that pertains to their academic performance, enrollment status or registration/ withdrawal procedures.
4. The Academic Council reviews the scope and content of each student's petition.
5. Students may obtain Academic Council petitions from the Admissions and Records Office.
6. Students shall submit their completed form(s) to the Admissions and Records Office.
7. All Academic Council actions are decided by majority vote. If there is a tie vote, the Vice President, Student Services may vote to break the tie.
8. The Academic Council meets on an as-needed basis.
9. Students who submit petitions that pertain to academic disqualification must have their petitions reviewed and signed by a counselor before the Academic Council will consider their requests for readmission.
10. Each student who petitions the Academic Council is notified in writing, by the Student Services office, concerning the action taken by the Academic Council on their petition.
11. Any student who is not satisfied with the Academic Council action taken on their petition may request a second petition review by the Academic Council or an opportunity to meet with the Academic Council in order to discuss their petition. Requests for a second review or a personal meeting are directed to the Vice President, Student Services.
12. The Admissions and Records office is notified, by the Student Services office, of all Academic Council decisions. The Disabled Student Program and Services (DSP), Extended Opportunity Programs and Services (EOPS), and the Counseling Division are notified about special counseling needs for students.
13. The Academic Council Petition for each student is filed in their permanent cumulative folder along with a copy of the Academic Council's action.

(Reference: Student Services Policy and Procedures 5200)

## STUDENT RESPONSIBILITIES

### Attendance and Participation

Students must attend the first meeting of their classes each semester in order to verify their class enrollments. Students failing to appear may be dropped from class rosters. Regular attendance, completion of examinations and assignments, and participation in class activities and discussion is expected. Instructors shall provide students with written statements describing course requirements, grading standards and course prerequisites.

Regular attendance is an obligation assumed by every student at the time of registration. Absences per semester should not exceed the number of hours or the number of days, as determined by the instructor, that a class meets per week. Absences in excess of the maximum may result in students being dropped from classes. Students who fail to attend their classes may be dropped by their instructors no later than the end of 75% of a full-term class, short-term class, or summer session.

Students have the responsibility of verifying their enrollment status. If students stop attending please make sure a drop card has been submitted to the Admissions and Records office or the students drop the class(es) in MySolano.

It is the responsibility of students to know the status of their attendance records and to complete all academic work missed due to absences. Compliance with the above regulations may be waived in the presence of verifiable extenuating circumstances including accidents, illnesses, shift changes and temporary changes in military assignments. Students who are dropped from classes because of unsatisfactory attendance and/or participation may petition their instructors for class reinstatement.

Instructors may reinstate a student by signing an add card and writing "Reinstate" on the card. The add card must be submitted to the Admissions and Records office.

# Academic Regulations

**Attendance and Progress of Veterans**

Veterans and their dependents must initiate their claim for educational benefits through the Veterans Resource Center on campus. After classes begin, students are required to notify the Veterans Resource Center promptly of any change in their unit loads or changes of address. Veterans should be aware that short-term classes, variable-unit courses and other flexible schedules may change the training time and affect benefits. A veteran who is academically disqualified must contact a Veterans Resource Center staff member for specific details concerning readmission.

**Withdrawal from Classes**

Students are responsible for officially dropping from classes and verifying that drop cards are submitted to the Admissions and Records office or completing the drop process using MySolano. Non-attendance or non-payment of fees is not a guarantee of removal from a course and does not alleviate responsibility to pay fees. Students who do not officially drop courses may receive an "F" for the term and incur a student debt.

Courses dropped after 20% of instruction through the end of 75% of instruction will be recorded as a "W" on the student's record. A student must petition the Academic Council for a "W" after the last day to drop if extenuating circumstances apply. Documentation may be required.

Short-term or summer session courses, which are less than a full semester in length, dropped during the first 20% of the class will not appear on the student's record. Courses dropped 21% to 75% of the term/session will be recorded as a "W" on the student's record.

Students should refer to their Schedule Bill for course specific deadlines.

**Withdrawal from College**

Students who find it necessary to drop all courses during the semester are required to drop within published deadlines. It is important to clear any debts owed to the College before leaving the College. Failure to drop properly could result in failing grades and a student debt.

Students are advised to speak with faculty members and a counselor before deciding to withdraw.

Students should access their MySolano account to drop or do so in person at any of our Admissions and Records campus locations.

## GRADES/GRADING SYSTEM

Solano Community College uses the following letter grade system for evaluating the quality of students' work:

| Symbol | Definition | Grade Point |
|---|---|---|
| A | Excellent | 4.0 |
| B | Good | 3.0 |
| C | Satisfactory | 2.0 |
| D* | Passing, less than satisfactory | 1.0 |
| F* | Failing | 0.0 |
| P | Pass (at least satisfactory) | 0.0 |
| NP* | No Pass (less than satisfactory or failing) | 0.0 |

**Substandard grades (Title V 55761)*

**Non-Evaluative Grades (Don't affect GPA)**

| | | |
|---|---|---|
| I | Incomplete | 0.0 |
| RD | Report delayed | 0.0 |
| W | Withdrawal | 0.0 |
| EW | Excused Withdrawal | 0.0 |
| MW | Military Withdrawal | 0.0 |

A grade point average (GPA) is determined by dividing the total number of grade points earned by the total units attempted, excluding credit/no-credit courses and those in which W or I grades are earned. (Example: 36 grade points divided by 12.0 units attempted equals 3.0 GPA/B average).

**Pass/No-Pass Option**

The purpose of the pass/no-pass option is to encourage students to take challenging courses for electives outside the major area while avoiding undue concern for grades in competition with students who may be better prepared.

The P grade represents a letter grade of A, B, or C. The NP grade represents a D or F letter grade. Units earned in the grading system are not used in computing grade point averages. A letter grade cannot be changed to a pass/no-pass grade, and a pass/no-pass grade cannot be changed to a letter grade unless the course is repeated. A course in which a grade of NP has been earned may be repeated once for a P or letter grade. Some courses are offered only on a P/NP grading basis and letter grades may not be earned in these courses. These courses are identified in the Course Descriptions section of this Catalog.

Students may request P/NP grades in most regular graded class offered by the College but they are limited to a total of 15 semester units under the P/NP option while attending Solano Community College. In order to exercise this option, a petition must be filed with the Admissions and Records office at the time of registration, or by the last day of instruction for the term.

Students should be aware that other colleges and universities may be reluctant to accept P/NP grades. Students consult with a counselor prior to taking the P/NP grade option in their major fields of study.

**Time Conflict**

In instances when a student wishes to take 2 classes which have overlapping meeting times, a Time Conflict Petition must be submitted to Admissions & Records for approval that includes both the faculty and Division Dean signatures. No more than a 10 minute overlap is permitted. Time Conflicts that are the result of a scheduling convenience for the student will be denied. Students should make every effort to find alternative classes that do not result in a time conflict.

**Auditing**

Course auditing is permitted as a service for students to continue study in a designated credit course that they have successfully completed the maximum number of allowable enrollments. At the time of this catalog, the following courses are not eligible for auditing: NURS 103, NURS 104, FIRE 140, EMT 213, all AERO and all COSM. Auditing is not allowed in online courses. Auditing conditions are as follows:

1. Student participation in the course is subject to instructor discretion

2. No grades or credit shall be awarded and no transcript of record maintained

3. Auditors may not change their status in the course from audit to credit student or the reverse

4. Audit fees shall not be refunded. The auditing fee is $15 per semester unit. One may apply to audit after the second class meeting when class size has been established for regular students.

**Final Examinations**

A final examination is required in all classes. For full semester day sections, final examinations will be given during the scheduled final examination period (finals week) at the end of each semester. For full-semester evening sections, short term sections which end prior to finals week, and summer sessions the final examination will be given during the last class meeting. For short-term sections which end during the finals week period, the final examination will be given in accordance with the finals week schedule.

**Incomplete Grades**

An incomplete grade may be assigned only when a student has failed to complete the final examination, a class project, or a term paper because of illness or severe personal problems. Incomplete work must be completed by the end of one calendar year. When such conditions exist, the instructor and student must complete an "Incomplete Grade Contract" which outlines the work to be completed within one calendar year to result in an agreed-upon grade and states a preliminary grade which represents the grade earned by the student in work completed. When the work has been completed as outlined on the contract, the instructor will forward a "Change of Grade" form to the School Dean. Students who do not complete the contract will be assigned the preliminary grade at the end of one calendar year.

**Change of Grades**

Students requesting a change of grade must initiate the request within one year after completing the course for which the grade change is being requested. After this period, if there are extenuating circumstances, a change of grade may be requested; however, the period for requesting a grade change may not exceed 3 years after the completion of the course.

Students should submit a request in writing directly to the faculty member within one year after completing the course for which the grade change is being requested. If the faculty member is not available, the request should be submitted through the appropriate School Dean; however, only the faculty member that assigned the original grade or designee may authorize a change of grade.

**Important Note**

Except in the cases of mistake, fraud, bad faith, or incompetency, a grade assigned by an instructor is not a grievable issue as described by the California Education Code (Section 76224): ". . .when grades are given for any course of instruction taught in a community college district, the grade given to each student shall be the grade determined by the instructor of the course and the determination of the student's grade by the instructor, and in the absence of mistake, fraud, bad faith, or incompetency, shall be final.

# Academic Regulations

**”STANDARDS FOR ACADEMIC PROBATION AND DISQUALIFICATION**

Students failing to maintain an acceptable standard of academic achievement shall be placed on academic probation, progress probation, academic dismissal or progress dismissal. (Reference: Student Services Policy and Procedures 5100) For purposes of probation and dismissal, only consecutive, primary semesters are counted. The semester in which a student’s performance causes them to be placed on probation is the first probationary semester. Summer is not a primary semester.

***Academic Probation***

**A. Placement on Academic Probation**

A student shall be placed on academic probation for the following reasons:

1. A student has attempted at least 12 total semester units and has achieved a cumulative grade point average (GPA) of less than 2.0.

**B. Removal from Academic Probation**

1. A student on academic probation is removed when their cumulative GPA is 2.0 or higher.

***Progress Probation***

**A. Placement on Progress Probation**

A student shall be placed on progress probation for the following reason:

1. A student has attempted at least 12 total semester units and received transcript entries of “W”, “I”, or “NP” representing 50% or more of all units attempted.

**B. Removal from Progress Probation**

1. A student will be removed from progress probation when the student has received transcript entries of “W”, “I”, or “NP” for less than 50% of all units attempted.

***Dismissal***

Dismissal prohibits the student from enrolling until one primary semester has passed and the student has met with a counselor and/or attended a probation/dismissal workshop.

**A. Placement on Dismissal**

A student will be dismissed for one or more of the following reasons:

1. A student achieves a cumulative GPA of less than 2.0 for three consecutive primary semesters.
2. A student receives 50% or more of transcript entries as “W”, “I”, or “NP” for three consecutive, primary semesters.

**B. Removal from Dismissal**

A student will be removed from Dismissal for any of the following reasons:

1. A student’s cumulative GPA is 2.0 or better and a student’s transcript entries of “W”, “I”, or “NP” are less than 50% of all units attempted.
2. Satisfactory Progress after Dismissal: A student who meets the requirements for readmissions after dismissal and achieves a semester GPA of 2.25 or greater, but does not have an overall cumulative GPA of 2.0 or greater, shall remain on academic probation until the cumulative GPA is 2.0 or better. (This condition only overrides A.1. above.)

If semester GPA falls below 2.25 and/or student qualifies for Progress Probation, student will be academically and/or progress dismissed.

**Petition Process**

Any student who has a problem regarding their academic performance, enrollment status, or registration/withdrawal procedures should contact the Admissions and Records office at ***admissions@solano.edu.***

**Appeals**

Students who are dismissed may file an appeal to contest the requirement of sitting out a primary semester with the Vice President, Student Services, or designee if extenuating circumstances exist which caused the substandard grades. To appeal, students complete the "Readmit After Dismissal" petition and indicate on it that they are appealing the requirement of sitting out a primary semester.

**Academic Renewal Without Course Repetition– Student Services Procedures 5110**

Pursuant to regulations established by the Board of Governors of the California Community Colleges (Title 5, Section 55764), students may, under the provisions outlined below, petition for the elimination of past substandard coursework (D, F, or NP) in the calculation of the student’s grade point average (GPA).

1. Coursework eligible for consideration under this regulation shall be:
   a. No more than thirty (30) units;
   b. Clearly sub-standard coursework, defined as those courses in which the student earned grades of D, F or No Pass;
   c. Courses taken at Solano Community College; and

   d. Courses taken two or more semesters (not including summer session) prior to petitioning.
2. Students are not eligible for relief under the academic renewal policy until they have:
   a. Completed at least fifteen (15) units with a grade of "C" or better at a regionally accredited post-secondary institution subsequent to the coursework to be alleviated;
   b. Met the two semester (not including summer session) time requirement; and
   c. Filed an Academic Renewal Petition with the Admissions and Records office
3. Courses eliminated under this policy may not be applied toward any degree or certificate requirement. Academic Renewal actions are irreversible.
4. If the request is approved, the student's academic record will be annotated to reflect the change, but all work will remain legible.
5. Solano Community College may honor the Academic Renewal Policy of other regionally accredited institutions in disregarding previous academic work.
6. Students should understand that other colleges may not honor the Academic Renewal Regulations of Solano Community College.

**REPEATABILITY OF COURSES**

Repetition of courses must be conducted by all California Community Colleges in compliance with California Title V Regulations, Sections 55040 through 55046.

**Course enrollment to improve a sub-standard grade:**

Students may enroll in a course up to three times or until the student receives a satisfactory grade, whichever comes first. A sub-standard grade is a notation of D, F, NP (No Pass), or W (Withdrawal). Solano Community College requires students to "petition to repeat" prior to the second attempt. A W will count as an attempt.

**Repeatable Courses**

Most courses with an earned grade of C or better cannot be repeated. However, there are specialized courses that are designated as repeatable and are noted in the course description. Types of courses in this category include:

- Transfer level courses that may be taken more than once to meet the major requirement for transfer to a California State University (CSU) campus or to other universities with a similar transfer requirement.
- Intercollegiate Athletics and their related conditioning courses may be repeated to meet requirements for CCCAA eligibility.
- Intercollegiate academic or vocational competition courses with the primary purpose to prepare students for competition.
- Variable unit courses cannot be repeated but students may enroll up to the total maximum units allowed.

**Petition for An Exception - Non-Repeatable Courses**

Some special circumstances allow students to complete the Course Repetition petition process when the request does not meet the criteria cited in the section above:

- A student may enroll again in a course due to a significant lapse of time (defined as at least 36 months) since the student's successful completion of the course and there is a properly established recency prerequisite for a course or program at Solano Community College or at another institution of higher learning. In cases where a transfer university requires a course to be taken as a university prerequisite more recently than 36 months, the college may alter the 36-month rule with documentation provided by the student submitted with the petition. Grades awarded for courses under this circumstance shall not be calculated in a student's grade point average. This is a one time exception.

- Upon verification a student may enroll again in a course where a legally mandated or licensure training requirement as a condition of continued paid or volunteer employment. These enrollments are not limited. Documentation for verification may include an expired CPR Certification, the job announcement or job description, coupled with a certification by the student that they need the course for employment.
- A special course that can be enrolled by petition for a disability-related accommodation.
- The college finds that the student's most recent previous grade is, at least in part, the result of extenuating circumstances. Extenuating circumstances are verified cases of accidents, illness, or other circumstances beyond the student's control. This is a one-time exception.

**Limitations on Active Participatory Courses**

Active participatory courses are those courses where individual study or group assignments are the basic means by which learning objectives are obtained. These include kinesiology and dance active participatory courses, as well as visual and performing arts active participatory courses (theatre arts, music and art). Some courses in these categories are related in content and have been placed in groups called Course Families. Course Families allow for skill development beyond an introductory level. A Course Family may include more than four courses, but students are limited to enrolling in a maximum of four courses in any one family. If a student gets a sub-standard grade (a notation of D, F, NP [No Pass], or W [Withdrawal]) in any course within a family, the sub-standard grade counts as one attempt of the four course limitations in the family. Consult with a counselor for more information.

**ACADEMIC HONORS**

***President's Honor List*** recognizes those students who earn academic honors in a given semester. The President's List includes those students who have earned a grade point average of 3.85 or higher with at least 39 grade points in not fewer than 12.0 units of work completed.

***Deans' Honor List*** recognizes those students who earn academic honors in a given semester. The Deans' List includes those students who have achieved a grade point average of at least 3.25 or higher with at least 39 grade points in not fewer than 12.0 units of work completed.

***Alpha Gamma Sigma:*** Permanent membership in Alpha Gamma Sigma, the California Community College Honor Society, recognizes students who have maintained a high grade point average in all college work. Permanent membership may be awarded at the time of graduation. Applications and information are available in Room 1425/1426 in the Student Center.

***Phi Theta Kappa:*** Permanent membership in Phi Theta Kappa International Honor Society, Beta Mu Gamma Chapter, recognizes the scholarly achievements of SCC students who have completed 12 semester hours of associate degree course work, with a grade point average of 3.5. Grades for courses completed at other institutions will not be considered when determining membership eligibility. A cumulative grade point average of 3.25 must be maintained to remain in good standing. Applications are available in the Student Life office, Room 1425/1426 in the Student Center.

***Honors at Graduation:*** A student who achieves a cumulative grade point average of 3.50 to 3.74 will be graduated with honors; and 3.75 and above with high honors.

# Campus Safety

Campus Safety Education and Prevention

Crime Statistics

Reporting Crimes or Other Emergencies

Sexual Harassment

*Solano Community College Sheriff's Department*
*Non-Emergency - (707) 864-7131*
*Emergency - (707) 580-6526*
*911*

# Campus Safety

## CRIME AWARENESS AND CAMPUS SECURITY ACT OF 1990 (CLERY ACT)

The Solano Community College District is in compliance with the Federal Crime Awareness and Campus Security Act of 1990 (Clery Act). Information required by this act may be found in the Student Handbook: Rights, Responsibilities & Procedures. "Crime Statistics and Campus Safety Information" is available on the College's Sheriff's Department website. An updated statistics list is available online at ***http://ope.ed.gov/security.***

## SAFETY FOR THE COLLEGE COMMUNITY

**The following information is published in accordance with Public Law 101.542 (§201), as amended by Public Law 102.26, the *Crime Awareness and Campus Security Act of 1990.***

**Crime Reporting Procedures** - No community or campus can be totally risk-free in today's society. Students, faculty, staff, and visitors are partners in creating an atmosphere that is safe and conducive to learning.

All law enforcement services are provided by the Solano County Sheriff's Office under a Memorandum of Agreement with Solano Community College District. The department is located in Bldg. 1800B. When on campus report any criminal action or other emergency by calling (707) 580-6526 or 911. The non-emergency number is (707) 864-7131. Off campus dial 911 to report an emergency.

**College Property** - Solano Community College property may not be removed from the campus without the expressed, written permission from the school dean or area supervisor. Unauthorized removal of College property from the campus is a violation of the law and may be prosecuted by the College.

**Sheriff's Department** - It is the policy of the Solano Community College Board of Trustees to protect all members of the College community and to protect the property of the District (Board Policy §3410 & §3800). Under the general direction of the Service Area Manager assigned by the Sheriff's office, the campus Sheriff's Department shall ensure that reasonable protection is provided by using methods that fit within, and contribute to, the educational philosophy and process of the institution.

Deputies have full peace officer authority, pursuant to California Penal Code (§830.32A) and Education Code (§72330). They have peace-officer training, as prescribed by the California Commission on Peace Officer Standards and Training. Drivers should be aware that Deputies are authorized to enforce all provisions of the California Vehicle Code relative to both moving and non-moving violations on campus.

**Sexual Assaults** - Sexual assaults including rape, acquaintance rape, and other sex offenses, should be reported to the campus Sheriff's Department immediately. Deputies can be contacted in Bldg. 1800B or by calling (707) 580-6526. The non-emergency number for campus Sheriff's Department is (707) 864-7131.

A victim of sexual assault should not touch or change anything at the scene. They should not wash, take a shower, or change clothing; which may destroy important evidence. Sexual assault victims will be transported to the nearest hospital for examination and collection of important evidence by trained medical personnel.

Services available on campus include a deputy trained in sexual assault investigation. During the fall and spring semesters, a nurse is located in Bldg. 1400. The rape crisis hotline for Solano County is (707) 258-9404. Possible sanctions for a perpetrator of a sexual assault include: criminal prosecution, official warning, reprimand, social probation, restitution, suspension by teacher, emergency summary suspension, disciplinary suspension, disciplinary probation, and expulsion. All criminal investigations are conducted independently of College rules of conduct inquiries.

# Campus Safety

**Crime Prevention** - One of the essential ingredients of any successful crime prevention program is an informed public. It is the intent of Solano Community College to inform students and staff, in a timely manner, of any criminal activity or security problems that may pose a reasonable threat to their physical safety. Another critical element of a campus safety program is training. The Sheriff's Department, the ASSC and the Office of Student Services sponsor on-going training programs on various topics, ranging from sexual assault awareness to the prevention of substance abuse.

Finally, all effective crime prevention programs include some measure of people watching out for one another. All staff and students are asked to be ALERT, SAFETY-CONSCIOUS, AND INVOLVED.

The Campus Crime Statistics Report is published annually and is available in the Solano Community College Sheriff's Department and on the College's website at ***http://www.solano.edu/police/statistics.php.***

**Off-Campus Crime:** The local police departments have been requested to provide Solano Community College with crime data for the areas surrounding the facilities operated by the College. When a safety problem arises, the campus Sheriff's Department will notify persons using these facilities.

**Sexual Harrassment**

Sexual Harassment is prohibited by law and by College policy (Board Policies §4270 and §4285). Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors and other verbal, visual, or physical conduct of a sexual nature or communications constituting sexual harassment made by someone from or in the work place or educational setting when:

1. Submission to the conduct is explicitly or implicitly made a term or condition of an individual's employment, academic status, or progress.
2. Submission to, or rejection of, the conduct by the individual is used as the basis of employment or academic decisions affecting the individual.
3. The conduct has the purpose or effect of having a negative impact upon the individual's work or academic performance, or of creating an intimidating, hostile, or offensive work or educational environment.
4. Submission to, or rejection of, the conduct by the individual is used as the basis for any decision affecting the individual regarding benefits and services, honors programs, or activities available at or through the district.

**Examples of Sexual Harassment:**

1. Making unsolicited verbal, physical, written, and/or visual contact of a sexual nature.

   ***Verbal:*** Offensive and/or inappropriate comments, epithets, whistling, jokes and innuendos of a sexual nature, including but not limited to, comments of a sexual nature about another person's or one's own physical appearance, attire, sexual thoughts, sexual behavior, marital status or sexual orientation.

   ***Physical:*** Offensive and/or inappropriate touching, interference with movement, or sexual assault, including but not limited to, kissing, touching intimate places, unnecessary and unwelcome touching of non-intimate places, or blocking of free bodily movement.

   ***Written:*** Sending or delivering sexually suggestive letters, notes, invitations, electronic media transmissions, or other reading materials.

   ***Visual:*** Displaying sexually suggestive posters, pictures, drawings, cartoons, computer graphics or objects; making sexually suggestive or obscene gestures; leering or staring at another person with sexual intent.

The above types of conduct of a sexual nature may be considered sexual harassment whether or not they are directed at a specific person. A workplace or educational setting which is permeated with sexual communications or behaviors may create a hostile environment to all persons within that setting. Whether an environment is hostile depends on the totality of the circumstances, including such factors as the frequency and severity of the conduct and whether the conduct has a negative impact on a person's work or educational environment.

2. Continuing to express sexual interest after having been informed that the interest is unwelcome.
3. Coercive sexual behavior such as making reprisals, threats of reprisal, or implied threats following a rebuff of harassing behavior used to control, influence, or affect the career, salary, or work environment of another person, including but not limited to promises or threats regarding appointments, promotions, transfers, changes of assignment, or performance evaluations which are explicitly or implicitly made contingent on the person tolerating or submitting to the sexual behavior.

4. Coercive sexual behavior such as making reprisals, threats of reprisal, or implied threats following a rebuff of harassing behavior used to control, influence, or affect the educational opportunities, grades, or learning environment of a student, including but not limited to promises or threats regarding grades earned or deserved, course admission, suggesting poor performance evaluations, letters of recommendation, benefits or services such as scholarships, financial aid, or work study jobs which are explicitly or implicitly made contingent on the student tolerating or submitting to the sexual behavior.

**Obligations of All District Employees and Students:**
All employees and students shall report to their immediate supervisor or school official any conduct on the part of other employees and students or non-employees, such as sales representatives or service vendors, who sexually harass any District employee, student, or other persons. If the immediate supervisor is the alleged harasser, contact Human Resources. Immediately following notification to the supervisor or school official, the party shall notify Human Resources and provide all information relevant to the complaint.

Because different procedures apply after a formal governmental administrative charge or complaint is filed, any employee receiving such a charge or complaint is directed to Human Resources immediately.

All employees and students shall cooperate with any investigation of an alleged act of sexual harassment conducted by the District or by an appropriate state or federal agency.

No employee or student of the District shall take any action to discourage a victim of sexual harassment from reporting such an instance.

The District will respond to any conduct which may constitute unlawful/prohibited discrimination as it deems appropriate, including but not limited to an internal investigation of reported conduct, and will take appropriate disciplinary action up to and including discharge, expulsion, or termination of contract if such is justified.

# Solano Community College District
# 2023-24 Academic Calendar

## SUMMER 2023

### JUNE 2023

| S | M | T | W | Th | F | S |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

### JULY 2023

| S | M | T | W | Th | F | S |
|---|---|---|---|---|---|---|
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

### AUGUST 2023

| S | M | T | W | Th | F | S |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

Amended Calendar:
Added Juneteenth Holiday
6-19-2022

## FALL 2023

### AUGUST 2023

| S | M | T | W | Th | F | S |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

### SEPTEMBER 2023

| S | M | T | W | Th | F | S |
|---|---|---|---|---|---|---|
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

### OCTOBER 2023

| S | M | T | W | Th | F | S |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

### NOVEMBER 2023

| S | M | T | W | Th | F | S |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | | |

### DECEMBER 2023

| S | M | T | W | Th | F | S |
|---|---|---|---|---|---|---|
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | | | | | | |

## SPRING 2024

### JANUARY 2024

| S | M | T | W | Th | F | S |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

### FEBRUARY 2024

| S | M | T | W | Th | F | S |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | | |

### MARCH 2024

| S | M | T | W | Th | F | S |
|---|---|---|---|---|---|---|
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | | | | | | |

### APRIL 2024

| S | M | T | W | Th | F | S |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | | | | |

### MAY 2024

| S | M | T | W | Th | F | S |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

## LEGEND

| | | |
|---|---|---|
| **SUMMER 2023: June 12 – August 4** | | |
| Six-week Session: June 12 – July 21 | | |
| Eight-week Session: June 12 – August 4 | | |
| Juneteenth | | June 19 |
| Independence Day | | July 4 |
| **FALL 2023: August 14 – December 15** | | |
| Eight-week Session I: August 14 – October 9 | | |
| Eight-week Session II: October 11 – December 8 | | |
| Professional Development Day | | August 10 |
| Professional Development Day (Required) | | August 11 |
| Labor Day | | September 4 |
| Professional Development Day | | October 10 |
| Veterans Day | | November 10 |
| Thanksgiving Day | | November 23 – 26 |
| Finals Week | | December 9 – 15 |
| Christmas | | December 25 |
| New Year's Day | | January 1 |
| No Classes | | |
| **SPRING 2024: January 16 – May 23** | | |
| Eight-week Session I: January 16 – March 12 | | |
| Eight-week Session II: March 15 – May 16 | | |
| Professional Development Day | | January 11 |
| Professional Development Day (Required) | | January 12 |
| Martin Luther King, Jr. Day | | January 15 |
| Lincoln Day | | February 16 |
| Washington Day | | February 19 |
| Professional Development Day | | March 13-14 |
| Spring Break | | April 8-14 |
| Finals Week (Starts Evening of May 16) | | May 17-23 |
| Memorial Day | | May 27 |
| Commencement | | May 23 |
| No Classes | | |
| Holidays (campus closed) | | |

### PROFESSIONAL DEVELOPMENT DAYS

| | |
|---|---|
| Fall 2023 | 3 |
| Spring 2024 | 4 |

### NUMBER OF INSTRUCTIONAL DAYS (M-F)

| | M | T | W | Th | F | Total |
|---|---|---|---|---|---|---|
| Fall 2023 | 16 | 16 | 16 | 16 | 15 | 79 |
| Spring 2024 | 15 | 17 | 16 | 16 | 15 | 79 |

### FINAL EXAMINATION DAYS (M-F)

| | M | T | W | Th | F | Total |
|---|---|---|---|---|---|---|
| Fall 2023 | 1 | 1 | 1 | 1 | 1 | 5 |
| Spring 2024 | 1 | 1 | 1 | 1 | 1 | 5 |

### WEEKEND CLASS DAYS INCLUDING FINALS

| | Sat | Sun |
|---|---|---|
| Fall 2023 | 13 | 14 |
| Spring 2024 | 15 | 15 |

* The Academic Calendar applies to 175 Instructional Workdays.
The Classified Calendar is a separate document, addressing Classified Workdays.

Approved by Governing Board 4/21/2021
Revised xxxxxxxxx

# Administration

*Superintendent-President* ..... Celia Esposito-Noy, Ed.D.
*Executive Coordinator* ..... Sandra Therrien

Governing Board
*Vacaville* ..... Amber Cargo-Reed
*Fairfield/Vacaville/Travis Air Force Base* ..... Denis Honeychurch, J.D.
*Vallejo* ..... Karimah Karah, J.D.
*Vacaville/Dixon/Winters* ..... Amanda Lopez-Lara
*Benicia/Vallejo/Suisun* ..... Rosemary Thurston
*Fairfield/Green Valley/Cordelia* ..... Quinten R. Voyce
*Vallejo* ..... A. Marie Young
*Board Secretary* ..... Celia Esposito-Noy, Ed.D.

Academic Affairs
*Vice President, Academic Affairs* ..... David Williams, Ph.D.
*Executive Coordinator* ..... Claire Gover
*Dean, Health Sciences* ..... Sheila Hudson, Ed.E.
*Dean, Liberal Arts* ..... Neil Glines
*Dean, Social and Behavioral Sciences* ..... Sandy Lamba
*Dean, Mathematics and Science* ..... Joseph Ryan, Ph.D.
*Dean, Applied Technology and Business* ..... Jose Cortes (Interim)
*Dean, External Programs* ..... Peter "Tony" Zitko, Ed.D.
*Director, Athletics* ..... Erik Visser

Facilities
*Vice President, Facilities* ..... Lucky Lofton
*Project Manager* ..... Project Manager Jason Yi
*Custodial Supervisor* ..... Eddie Del Pilar
*Lead Custodian* ..... Keith Willmschen

Finance and Administration
*Vice President, Finance and Administration* ..... Susan Wheet
*Director, Business Services* ..... Shannon Beckham
*Assistant Controller* ..... Virginia Bender
*Assistant Controller* ..... Edith Sanchez
*Department of Public Safety* ..... Chief Brian Travis

Human Resources
*Manager* ..... Salvatore Abbate
*Sr. HR Generalist* ..... Tracy Drake
*HR Generalist* ..... Karen Mitchell
*HR Analyst* ..... Amy Meacham
*HR Administrative Assistant* ..... Tracy Vest
*HR Generalist* ..... Brid Sarazin

Student Services

*Vice President, Student Services* ..... Lisa Neeley, M.F.A.
*Executive Coordinator* ..... Tiffany Casimere
*Dean, Counseling Services* ..... Ashlie Lawson.
*Dean, Academic Support Services* ..... Shirley Lewis, J.D.
*Dean, Enrollment Services* ..... Alysa Borelli
*Dean, Research and Planning* ..... Nathan Rexford, Ph.D.
*Director, Financial Aid* ..... Patrick Scott
*Director, Early Learning Center* ..... Sabrina Drake

Technology Services

*Vice President, Technology Services* ..... Jon Cornelison
*Director, Information Services* ..... James "Kimo" Calilan
*Director, Technology Services and Support* ..... Justin Howell

## Administration, Faculty, Staff

**Borelli, Alysa**
Dean, Enrollment Services
*B.A. UC, Berkeley*
*M.A. University of Phoenix*

**Lawson, Ashlie**
Interim Dean, Counseling Services
*B.S., CSU, Sacramento*
*M.S., San Jose State*

**Cornelison, Jon**
Vice President, Technology Services
*A.A., Solano Community College*
*B.A., University of San Francisco*

**Cortes, Jose**
Interim Dean, Applied Technology and Business
*B.A., CSU, Chico*
*M.A., CSU, Sonoma*

**Esposito-Noy, Celia**
Superintendent-President
*B.A., San Francisco State*
*M.A., Stanford University*
*Ed.D., Mills College*

**Glines, Neil**
Dean, School of Liberal Arts
*B.A., Carroll College*
*M.A., CSU, Northridge*

**Hudson, Sheila**
Dean, School of Health Sciences
*B.A.,UC, Berkeley*
*M.A., Ed.D., CSU, Los Angeles*

**Lamba, Sandy**
Dean, School of Social and Behavioral Sciences
*B.S., UC, Davis*
*M.A., Alliant International University*
*M.B.A., National University*

**Lewis, Shirley**
Dean, Academic Support Services
*B.A., J.D., UC, Davis*

**Lofton, Lucky**
Vice President, Facilities

**Neeley, Lisa**
Vice President, Student Services
*B.S., Stanford University*
*M.F.A., UC, Los Angeles*

**Rexford, Nathan**
Dean, Research & Planning
*A.A., Solano Community College*
*B.A., UC, San Diego*
*M.A., Ph.D., UC ,Davis*

**Ryan, Joseph M.**
Dean, School of Mathematics and Science
*B.S., San Francisco State*
*Ph.D., UC, Davis*

**Scott, Patrick**
Dean, Financial Aid
*B.A., University of Idaho*
*M.A., University of Chicago*

**Wheet, Susan**
Vice President, Finance & Administration
*B.S., University of Phoenix*
*M.B.A., DeVry University*

**Williams, David**
Vice President, Academic Affairs
*B.A., Evangel University*
*M.A., Missouri State University*
*Ph.D., UC, Davis*

**Zitko, Peter "Tony"**
Dean of External Programs
*B.A., Ashford University*
*M.A., American Public University*
*Ed.D., American College of Education*

# Faculty

## Applied Technology and Business

**Anderson, Kevin**
*B.A., UC, Berkeley*
*J.D., San Francisco Law School*

**Beam, Erica**
*B.S., CSU, Stanislaus*
*M.B.A., CSU, Sacramento*

**Cary, Adrienne**
*B.S., University of Wisconsin*
*M.A., New York University*

**Coleman, Toni**
*B.S., M.B.A, University of Phoenix*

**Cook, Karen**
*B.S., Valparaiso University*
*M.Ed., Azusa Pacific University*

**Green, Douglas**
*B.S., UC, Davis*
*M.A., National University State University*

**Kissinger, Jeffrey**
*B.A., Chapman University*

**Maghoney, Laura**
*B.A., M.A., UC, Davis*

**Marshall, Ricky E. "Rick"**
*B.S., Louisiana Baptist University*

**Mayes, Brooks**
*B.A., CSU, Sacramento*

**McGee, Andrew**
*A.S. Community College of the Air Force*
*A.S., American River College*
*B.A., CSU, Sacramento*

**Nordin, Sarah**
*B.A., Westfield State College*
*M.S., Sam Houston State University*

**Slaton, LaVonne**
*B.A., CSU, Sacramento*
*M.B.A., University of Phoenix*
*Ph.D., Case Western Reserve University*

**Spoelstra, Kevin**
*A.S., Spartan School of Aeronautics*
*B.S., Embry-Riddle Aeronautics University*

**Urrutia, John**
*B.S., University of Nevada, Reno*
*M.S., National University*

## Counseling/ASC/CalWORKs/ EOPS

**Anderson, James "Jim"**
*A.A., Solano Community College*
*B.A., M.S., CSU, Sacramento*

**Black, Erika**
*B.A., UC, Los Angeles*
*M.A. Loyola Marymount University*

**Cittadino, Nicholas**
*B.S., University of Idaho*
*M.A., Chapman University*

**Cheah, Kow-weng "Kelvin"**
*B.A., M.S., San Francisco State*

**Coulter, Kimberly**
*B.S., M.S., CSU, Sacramento*

**Dauffenbach, Amy**
*B.S., University of Wisconsin, Madison*
*M.S., CSU, Sacramento*

**Jones-Foster, Priscilla J**
*B.A., M.A., CSU, Sonoma*

**LaCount, Rebecca**
*B.A., UC, Berkeley*
*M.S., San Francisco State*

**Roe, Candace**
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**Schneider, Tracy**
*B.A., UC Davis*
*M.A., M.A., CSU Sacramento*

**Sta Maria, Kamber**
*B.A., M.A., Saint Mary's College*

## LIBRARY SERVICES

**Duane, Erin**
*B.A., Gonzaga University*
*M.L.I.S., CSU, San Jose*

**Frey, Atticus**
*B.A., San Francisco State*
*M.L.I.S., UC, Los Angeles*

**Fuller, Ruth**
*B.A., UC, Santa Cruz*
*M.A., University College, London*

## Health Sciences

**Averett, Joyce**
*B.S., CSU, Bakersfield*
*M.S., Liberty University*

**Borchert, Matthew**
*B.A., CSU, San Jose*
*M.S., St. Mary's College*

**Bourdon, Ingeborg**
*B.S., M.S., UC, Davis*

**Butters, Wanda**

**Cain, Ginger**
*B.F.A., Cornish College of the Arts*
*M.A., St. Mary's College*

**Cardinal, Jeffrey**
*B.S., CSU, Hayward*
*M.A., CSU, San Jose*

**Craig, Erin**
*B.B.A., Loyola University*

*B.S., M.S., Rush University*
*C.N.S.- B.C., P.M.H.N.P.-B.C. by ANCC*

**Dorrough, Debbie**
*R.N., Solano Community College*
*B.S.N., M.S.N. Ed., Western Governors University*

**Enemmuo, Vitalis**
*B.S., University of Nigeria*
*M.S., Ph.D., University of Phoenix*

**Freed, Elizabeth**
*B.S.N., M.S.N. Ed., Western Governors University*

**Kargbo, Myra L.**
*B.S., M.S., Chamberlain College*

**Macalino, Marivic**
*B.S.N., Saint Louis University, Philippines*
*M.S.N., University of Phoenix*

**Marks, Kevin**
*B.A., CSU, Stanislaus*
*M.S.S., United States Sports Academy*

**Morinec, Maíre**
*B.S.N, Georgetown University*
*M.S., University of Michigan*

**Nagle, John**
*B.A., UC, Los Angeles*
*M.S., CSU, Sacramento*

**Parrish, Scott**
*B.S., California Polytechnic State University, San Luis Obisbo*
*M.Ed., Azusa Pacific University*

**Preciado, Brian**
*B.S., University of Redlands*
*M.B.A., University of Redlands*
*Retired Fire Chief, Vacaville Fire Department*

**Stover, Scott**
*B.A., Chapman University*
*M.S.S., United States Sports Academy*

**Sytsma, Robin**
*B.S., San Diego State University*
*M.S., University of New Haven*

**Williams, Darla**
*B.S., St. Mary's College*
*M.A., University of La Verne*
Faculty - Liberal Arts

## Liberal Arts

**Anderson, Isabel**
*B.A., M.A., San Francisco State*

**Barsness, Sarah**
*B.A., Evergreen State College*
*M.F.A., San Francisco Art Institute*

**East, Evangeline**
*B.A., M.A., CSU, Long Beach*

**Farmer, Erin**
*B.A., M.A., Mills College*

**Florence, Ferdinanda**
*B.A., American University*
*M.A., University of Maryland*

**Gallagher, Hui Hui "Gwen"**
*B.A., CSU, Northridge*
*M.A., CSU, East Bay*

**Lancet, Marc**
*B.A., MFA., M.A., UC, Santa Barbara*

**Lorenz, Jeanne**
*B.A., California College of the Arts*
*M.A., Yale University*

**Marlow-Muñoz, Lorna**
*B.A., UC, Berkeley*
*M.A., San Francisco State*

**McBride, Christopher**
*B.A., University of Connecticut*
*M.A., Trinity College*
*Ph.D., Claremont University*

**McKinnon, Sarah**
*B.A., UC, Santa Cruz*
*M.A., Trinity College*

**Mungin, Douglas**
*B.A., San Francisco State*
*M.A., Ph.D. Louisiana State University*

**Pandone, Marc**
*B.A., Connecticut College*
*M.F.A., California College of Arts and Crafts*

**Pearson-Bloom, Theresa**
*B.A., CSU, Northridge*
*M.S., Western Illinois University*
*M.S., Lasell University*

**Pirott, Laura**
*B.A., University of Southern California*
*M.A., Ph.D., Brown University*

**Poff, Greg**
*B.A., M.A., CSU, Long Beach*

**Reeve, Melissa**
*B.A., UC, Berkeley*
*M.A., University of Hawaii at Manoa*

**Schouten, Jonathan**
*B.A., M.A., CSU, Sacramento*
*M.F.A., Arizona State University*

**Scott, Joshua**
*B.A., CSU, San Francisco*
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**Sendlakowski-Mani, Christine**
*B.A., CSU, Sacramento*
*M.A., Southern Oregon University*

**Smith, Rachel**
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**Watson-Perez, Heather**
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**Wyly, Michael**
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*B.A., M.A., CSU, Hayward*
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Faculty - Mathematics and Sciences
**Allen, Darryl**
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## Mathematics and Sciences

**Brewer, Kevin**
*B.S., East Texas State University*
*M.A., UC, Davis*

**Dekloe, James**
*B.A., M.A., and C. Philosophy, UC, Los Angeles*

**Diehl, Sandra**
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**Donovan, Sarah**
*B.A., UC, Santa Cruz*
*M.A., UC, Davis*

**Eskandari, Vahid**
*B.S., Azad University of Tehran*
*M.S., University of San Francisco*
*Ph.D., UC, Davis*

**Ferrebee, Kristina**
*B.S., Savannah State University*
*M.S., New York State Chiropractic College*

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*M.S., CSU, Hayward*

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*B.S., O.D., UC, Berkeley*

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*Ph.D., University of Tennessee*

**Jian, Alan**
*B.A., Zhongsham University*
*M.A., San Francisco State*
*Ph.D., UC, Davis*

**Kaur, Kiran**
*B.S., University of Mumbai*
*M.S., Shreemati Nathivai Damodar Thackersey*
*Women's University in Mumbai, India*

**Kuo, Jessica**
*B.A., UC, Berkeley*
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**Lam, Oanh P.**
*B.S. University of Washington*
*M.S., Ph.D., UC, San Diego.*

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*B.S., University of Iowa*
*Ph.D., UC, Davis*

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*M.D., Southwestern University, Philippenes*

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*Ph.D., University of Pisa, Italy*

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*Ph.D., UC, Davis*

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*M.A., San Francisco State*

**Podkolzina, Svetlana**
*M.S., Ph.D., Lomonosov Moscow State University*

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*M.S., UC, Davis*

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*M.Sc., Kocaeli University, Turkey*
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*Ph.D., University of South Florida*

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*M.S., University of South Carolina*

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*St. Germain, Commodore*
*B.A., B.S., San Francisco State*
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*M.S., CSU, East Bay*

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*M.S., UC, Santa Cruz*

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*B.S., Oregon State*
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*Ph.D., University of Western Australia*

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*M.A., San Francisco State*
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## Social and Behavioral Studies

**Arce, Michelle**
*B.A., UC, Davis*
*M.A., UC, Santa Barbara*

**Ayala, Anthony**
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*M.A., Pacific Oaks College*

**Bolz, C. Sabine**
*B.S., Justus-Liebig Universitaet Giessen,*
*Germany*
*Hauptdiplom (ABD) Carl-von-Ossietzky*
*Universitaet Oldenburg, Germany*

**Bundenthal, Thomas**
*B.A., University of Alabama, Tuscaloosa*
*M.A., University of Alabama, Huntsville*

**Cabrera, Saki**
*B.A., Iona College*
*M.A., Ph.D., Claremont Graduate University*

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*B.A., Michigan State University*
*M.A., San Francisco State*

**Isip-Bautista, Maria**
*B.A., M.S., UC, Davis*

**Jaimez, Theresa "LaNae"**
*B.A., University of Oklahoma*
*M.A., Ph.D., University of Texas, Austin*

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*B.S., Eastern New Mexico University*
*M.S., CSU, Sacramento*
*Ed.D., UC, Davis*

**Martinez Morrison, Amanda**
*B.A., UC Santa Cruz*
*M.A., Ph.D., University of Texas, Austin*

**Obegi, Amy**
*B.A., B.S., UC, Davis*
*M.S., San Diego State University*

**Powers, Maureen**
*B.A.,*
*M.A.,*

**Purdie, Rachel**
*B.A., M.A., CSU, Sacramento*

**Smith, Tasha**
*B.A., UC, Berkeley*
*Ph.D., Stanford University*

**Taylor-Hill, Lauren**
*B.S., UC, Davis*
*M.A., Arizona State University*

Staff

**ACADEMIC AFFAIRS**
Abbott, Lisa - Curriculum
Barreto, Valerie - Scheduling
Jones, Leigh Anne - Distance Education
Taliaferro, Christina - Academic Senate
Zamora, Mayra - Scheduling

**ADMISSIONS & RECORDS**
Aten, Maeghan - Supervisor
Dunn, Kendra
Harris, Tanya
Logarta, Carmela
Prise, Alyssa
Siefert, John
Tauanuu, Katya
Uhl, Andrea

**ACADEMIC SUPPORT SERVICES**
Cheatham, Amber
Leon, Gema
Park, Nedra
Rodriguez, Christina

**ATHLETICS**

**COUNSELING**
Monroy, Rosa
Moore, Carolyn - ASC
Parker, Sidne - ASC
Perrett-Ashby, Robin
Sloan, Robin
Sullenger Bruno, Katherine - ASC
Thomas, Makesha - CalWORKs
Wynton, May - ASC
Young, Patricia - Career and Employment Services Center

**DEPARTMENT OF PUBLIC SAFETY**
Bermudez, Mariano
Dayrit, Leon
Inglr, Henry
Johnson, Jason
Khateeb, Diana
Leos, David
Quezada, Arthur
Roberts, Derrick
Williams, Bryant

**EARLY LEARNING CENTER**
Estrada, Mary
Spann, Patrice
Tarbell-DeOcampo, Osati
Takhar, Jotinder
Veliz Leon, Maria

**EDUCATIONAL FOUNDATION**
Amick, Eileen
Johnston, Curt - Director

**FACILITIES**
Balabis, Gavino
Barron-Griffin, Connie
Bernal, Erickson
Ceja, Robert
Corpus, Jose
Corpus, Manuel
Cross, Richard
Del Pilar, Eduardo
Ercole, Steven
Ercole, Taylor
Estantino, Teddy
Finley, Paul
Ford, Jordan
Garcia, Arthur
Gonzalez, Josamel
Gonzalez-Garcia, Oscar
Jones, Steve
Kassa, Kahsay
Le, Tuyen
Lehfeldt, Jeff
Lor, Pitou
Loza, Isaias
Loza, Porfirio
Murillo, Danny
Porter, Herman
Robinson, Laura
Rose, Michael D
Russo, Gloria
Salinas, Alfonso
Tolentino, Omar
Trujillo, Kelly
Uquillas, Jerry
Veliz, Delfina

**FINANCIAL AID**
Bivins, Cochea
Conor, Brittani
Hammond, Zachary
Larot, Kate
Macaraeg, Darah
Rodriguez, Carolina
Troupe, Anna Marie
Troupe-Gardner, Antoinette

**FISCAL SERVICES/PAYROLL**
Bordon, Rebecca
David, Janice
Disu, Carmine
Hesling, Jennifer
Howells, Haley
Jackson-McClain, Kirsten
Kalia, Neh
Lind, Alisa
Malone, Handel - Purchasing
Nalley, Anita
Ramirez, Sylvia
Rangel, Isabell
Rodriguez-Valenzuela, Ricardo
Scott, Laura - Purchasing
Huang, Zhiyan
Vest, Tracy

**INFORMATION TECHNOLOGY**
Abbate, Tina
Augustus, James "Rich"
Brooks, George
Escobar, Steve
Kawazoe, Bernadette "Bernie"
Mundell, Kelsi
Nunez, Robert
Swanson, Steven G
Tanaka, Ray
Tenty, Claudia
Tom, Galen
Zavala, Pete

**LIBRARY SERVICES**
Bains, Rashmi
Maguire, Carla
McCoy, Katie

**OUTREACH**
Briseno, Jesus
Marshall, Shannon
Hernandez, Alfredo
Pulanco, Matthew - Director

**RESEARCH & PLANNING**
Campos, Hugo
Johnson, Shilah

**RISING SCHOLARS & REENTRY**
Meekins, Jessica

**APPLIED TECHNOLOGY & BUSINESS**
Calvo, Julene
Crompton, Jill
Gravely, Barbara
Miranda, Maria
Suriben, Ritzdane
Williams, Andre

**HEALTH SCIENCES**
Kaushal, Sheila
Pegg, Melissa
Vest, Tracy

**LIBERAL ARTS**
Edmonds, Jason
Gonzalez, Danielle “Dani”
Scharfen, Craig
Leal, Jose "Rei"

**MATHEMATICS & SCIENCES**
Ang, Joshua
Bains, Ruhpreet
Camins, Irene
Eleazar, Iralyn
Gonzalez, Cecilia
Hamera, Katherine
Jackson Barajas, Haylee
Liu, Calvin
Low, Jennifer
Maldonado, Adrian
Weatherbee, Alexandra

**SOCIAL & BEHAVIORAL SCIENCES**
Ramos, Jeannette

**STUDENT LIFE**
Vacant

**VACAVILLE CENTER**
Cruz, Flor deMaria - Director
Gonzalez, Jenny - A & R
Graham, Debbie L. - A & R
Kucala, Christine
Liu, Calvin
Low, Jennifer
Perkins, Chavonna - A & R

**VALLEJO CENTER**
Camins, Irene
Carrera, Brandon - Director
Hernandez, Sandra
Mayne, Marie - A & R

**VETERANS RESOURCE CENTER**
Amy Kennedy

**WAREHOUSE**
Barron-Griffin, Connie
Loza, Porfirio - Courier

Telephone Directory

## Solano Community College Main Line - (707) 864-7000
## Web Site: *www.solano.edu*

*Solano Community College's main telephone line is an automated system All direct lines and extensions have 24-hour voicemail.*

| | | |
|---|---|---|
| Academic Affairs | | 864-7102 |
| Aeronautics/Nut Tree | | 864-7185 |
| Admissions and Records | | 864-7171 |
| Associated Students Solano College (ASSC) | | 864-7268 |
| Assessment Center | 864-7000 | ext. 4525 |
| ASTC (Academic Success and Tutoring Center) | | 864-7230 |
| ASTC-STEM | 864-7000 | ext. 4498 |
| Athletics | | 864-7119 |
| Automotive Technology Center | | 864-7151 |
| Bookstore | | 864-7111 |
| CalWORKs | 864-7000 | ext. 4645 |
| Cafeteria | | 863-7887 |
| Campus Sheriff's Office | | 864-7131 |
| Campus Sheriff's Office (After Hours) | | 580-6526 |
| Canvas/Distance Education | | 864-7133 |
| Career and Employment Services Center | | 864-7124 |
| Community Services/Facility Rentals | 864-7000 | ext. 4400 |
| Cosmetology Receptionist | | 864-7180 |
| Counseling | | 864-7101 |
| Disability Services Program (DSP) | | 864-7136 |
| Early Learning Center | | 864-7182 |
| Educational Foundation | | 864-7141 |
| English Lab | | 864-7239 |
| EOPS/CARE | 864-7000 | ext. 4444 |
| Finance and Administration | | 864-7147 |
| Financial Aid | | 864-7103 |
| Fire Academy | 864-7000 | ext.4582 |
| Human Resources | | 864-7128 |
| International Education Program (SIEP) | | 864-7171 |
| Library Circulation/ | | |
| Library Reference Desk | 864-7000 | ext. 4519 |
| Lost and Found | | 864-7168 |
| Maintenance and Operations | | 864-7197 |
| Math Activities Center (MAC Lab) | | 864-7138 |
| Occupational Work Experience | | 864-7139 |
| Parking Information | | 864-7113 |
| School of: | | |
| Applied Technology and Business | | 864-7229 |
| Health Sciences | | 864-7108 |
| Liberal Arts | | 864-7114 |
| Mathematics and Sciences | | 864-7211 |
| Social and Behavioral Sciences | | 864-7251 |
| Student Health Center and Services | | 864-7163 |
| Superintendent-President | | 864-7299 |
| Student Life Center | | 864-7168 |
| Student Services Office | | 864-7173 |
| Travis Air Force Base Center | | 424-2431 |
| Technology Support Services/ | | |
| Help Desk | 864-7000 | ext. 4690 |
| Theatre Box Office | | 864-7100 |
| Transfer Center | | 864-7158 |
| UMOJA Office | | 864-7134 |
| Vacaville Center | | 863-7836 |
| Vallejo Center | | 642-8188 |
| Veterans Resource Center | | 864-7105 |

# Student Resources

Student Life, Support Services and Programs

General Campus Services

# Student Resources

**ASC (Accessibility Services Center)**
**https://welcome.solano.edu/asc/ (707) 864-7136**
**Student Services (Bldg 400) - 1st Floor - Room 407**

This program offers supportive services for students with physical, visual, hearing, learning and psychological disabilities or other medical problems so that they are able to succeed in their college courses and programs. Some of the supportive services we offer are specialized counseling, priority registration, assistive computer technology/alternate media, and other personalized accommodations for in and out of the classroom. We offer adapted educational programs in Horticulture, and the ASC maintains a working relationship with the Solano County Office of Education Department of Rehabilitation, Mental Health, Veterans Administration, Worker's Compensation (Private Rehab), North Bay Regional Center, and similar agencies.

The Solano Community College campus is ideal for the student with physical disabilities, as most rooms are on the ground level, all second-floor classrooms are accessible by elevator, and there are many accessible restrooms and ramps throughout the campus.

**ASTC (Academic Success and Tutoring Center)**
***welcome.solano.edu/astc-homepage/***
**Main Campus – Inside the Library (Bldg 100)**
**Vacaville - Room 137 Vallejo - Room 124**

The Academic Success and Tutoring Center (ASTC) encourages and facilitates academic success through academic support services for students. The ASTC provides information about other important campus support resources; a quiet study space; use of laptop computers and printer; and academic success workshops (i.e. study skills, exam preparation, time management, research and writing papers).

**ASTC-STEM (Academic Success and Tutoring Center - Science, Technology, Engineering, and Mathematics)**
***welcome.solano.edu/astc-homepage/***
**(707) 864-7000 x4498**
**Student Services (Bldg 400) - 2nd Floor Room 434**
**M/W 9:30am-6pm, T 11am-6pm, R 11am-5pm**

The ASTC-STEM program is a local program that supports economically and educationally disadvantaged students in attaining a degree in math, science or engineering related majors with a goal of transferring to four-year universities.

The ASTC-STEM model for success includes a variety of services that results in a high rate of academic achievement.

***Student Study and Computer Lab Center***
A dedicated multipurpose space for quiet study, workshops, computer related activities, and information sharing. There is a printer, resource books, and models available for students use.

***Tutoring***
Dedicated free peer tutors specifically for math and science courses.

***ASTC-STEM Counselor***
A dedicated counselor is provided to assist students with their educational planning and goals.

***Assistance in the transfer process***
Including field trips to universities, workshops on applications, and counseling.

***Financial Literacy***
The program connects students with resources to develop financial knowledge, including how to pay for community college and financial planning for transfer to a four-year college.

All students who are interested in participating in the ASTC-STEM program must meet the academic and economically disadvantaged criteria

**A&R (Admissions and Records)**
***welcome.solano.edu/ar/ admissions@solano.edu***
**(707) 864-7171 Student Services (Bldg 400) - 1st Floor**

The Admissions and Records Office is responsible for implementing College policies and procedures related to admissions, registration, grades and transcripts. Registration information is printed in the Schedule of Classes and is available at ***www.solano.edu.***

**A.S.S.C. (Associated Students of Solano Community College)**
***welcome.solano.edu/assc-homepage/*** **(707) 864-7168**
**Student Center (Bldg 1400) - Room 1406 (707) 864-7268**

The Associated Students of Solano Community College are represented by an Executive Board and the Student Senate. Every registered student is a member of the A.S.S.C. and is encouraged to participate in the student government. Students may obtain information from the Student Life office (Room 1425) concerning requirements for holding a student government office. The A.S.S.C. meets at 3:00 p.m. on Tuesdays during the Fall and Spring. Through its annual budget, the A.S.S.C. allocates student funds for the use and benefit of day, evening, and off-campus students. Students are invited to drop in and become familiar with the services provided by the Student Life office and to meet the people (students, staff, and faculty) who are working to make the student experience at Solano Community College a successful one.

# Student Resources

**CalWORKS**

***welcome.solano.edu/calworks/***

**(707) 864-7000 x4645 Fax: (707) 646-2058**

**Student Services (Bldg 400) - Room 406**

The Solano Community College CalWORKs Program is dedicated to assisting students in achieving long-term selfsufficiency and success. The program provides comprehensive services to CalWORKs students while assisting them in achieving their academic goals. Students may earn a Certificate of Achievement, Associate Degree, or transfer to a 4-year institution. The CalWORKs program offers support, advocacy, counseling, work-study, and all childcare, transportation, and book costs. Our program is part of the college Student Services team and we are in collaborative partnership with Solano County Health and Social Service.

**CARE PROGRAM**

**(Cooperative Agency Resources for Education)**

***welcome.solano.edu/eops-homepage/***

**(707) 864-7000 x4444**

**Student Services (Bldg 400) - 2nd Floor - Room 426**

The CARE Program was established by the State of California to help welfare recipients become convinced that they and their children are important, that they are capable, and that with proper support they can break the welfare dependency cycle through education and job training.

CARE is a supplemental component of EOPS that specifically assists EOPS students who are single heads of welfare households with young children by offering supportive services so they are able to acquire the education, training and marketable skills needed to transition from welfare-dependency to employment and eventual self-sufficiency for their families.

Eligibility requirements for the CARE Program include:

- An EOPS student currently receiving the Pell Grant.
- Enrolled full-time at Solano Community College.
- A current recipient of Tribal TANF/TANF/CalWORKs cash aid, or at least one dependent child currently receiving cash aid.
- Single parent head-of-household.

CARE provides support services and CARE Grant reimbursement for child care expenses, textbooks and supplies, transportation costs, academic counseling, and personal development activities and workshops.

**CAREER AND EMPLOYMENT SERVICES CENTER**

***welcome.solano.edu/career-center-homepage/***

**(707) 864-7124**

**Student Services (Bldg 400) - 1st Floor**

The Career and Employment Services Center offers one- stop services including career exploration and skills assessment, labor market information and free employment assistance to all Solano Community College students and alumni in obtaining full- or part-time employment on and off campus. Students can utilize resources to research information on occupations, including employment outlooks, education and training requirements, prospective employers, and current salaries. The Center offers computerized career information systems, online resume posting, and up-to-date listings of current employment opportunities.

*Solano Community College Career and Employment Services does not accept or list any job opportunity that discriminates on the basis of sex, sexual orientation, race, religious creed, national origin, marital status, medical condition, or age (over 40). The SCC Career and Employment Services Center adheres to all laws governing equal opportunity and discrimination, including, but not limited to, Title VI and VII of the Civil Rights Act of 1964, Executing Section 504 of the Rehabilitation Act of 1973, California Fair Employment Practices of 1959, Americans With Disabilities Act of 1990, and the Discrimination and Employment Act of 1972.*

**COUNSELING SERVICES**

***welcome.solano.edu/counseling-home/***

**Student Services (Bldg 400) - 1st Floor**

**Main Campus (707) 864-7101 Vallejo (707) 642-8188**

**Vacaville (707) 863-7836 Travis AFB (707) 424-2431**

The Counseling Department provides career and academic counseling services. The counselors work with students to help them understand their interests, abilities, and achievements. Counselors assist students in determining goals and planning programs to attain their goals. Careful course selection is the key to a successful college experience. Because requirements differ for each program, major, and college or university, and because these requirements are subject to change, students are encouraged to consult with a counselor throughout their time at SCC. New students should plan to meet with a counselor well before the start of their term.

# Student Resources

Counseling services are available in person at the main campus and College centers. Online Express counseling is available at:
***welcome.solano.edu/counseling/ecounseling.php***.

How to make a counseling appointment

1. In person at the main campus
2. Online at ***http://welcome.solano.edu/counseling-locations***
3. By phone

***welcom.solano.edu/elc-homepage/*** **(707) 864-7182**
**Bldg 200 & 200A (8am-4pm)** **Fax: (707) 646-2061**

The Solano Community College Early Learning Center provides child care and development services for children of student parents and from the community. The Center is also the early childhood education laboratory for students studying Child Development and Family Studies (CDFS).

The center is open for child care from 7:45 a.m. – 3:30 p.m. Monday through Friday, serving young children under age 5 in part-day and full-day programs. The afternoon preschool program is offered from 1:00 – 4:00 p.m. each week day.

To place a child on the subsidized or non-subsidized child care wait list, visit the 200 building on the Fairfield campus to complete an application. As openings occur, we enroll from the wait list.

The majority of the enrollment spaces are state or Federally subsidized with no- or low-cost child care available to low-income families. The fees for non-subsidized child care vary according to the child's age and hours enrolled in care.

The children's days and hours of enrollment are based upon the parents' school schedules and/or work hours. To support the consistency and structure that children need, we emphasize a consistent enrollment schedule for each child. We do not provide drop-in child care services.

High quality, developmentally appropriate services are provided daily by well-qualified, dedicated teachers. Child Development and Family Studies (CDFS) students learning to be teachers of young children work in the classrooms as well. The children receive one-on-one support through a curriculum designed to meet their developmental needs.

*Department of Social Services Community Care Licensing numbers: 480111003 & 483000791*

**ENGLISH LABS**

***welcome.solano.edu/english-lab/*** **(707) 864-7239**
**Main Campus (Bldg 100)**
**Vacaville - Room 124**

**DROP-IN WRITING LAB**

The English department offers a drop-in writing lab available to help students work on essays for any course at SCC, not just English courses. Students can drop in for immediate writing assistance if space is available. However, if the lab is busy, students have the option of signing up for drop-in sessions up to two weeks in advance. The lab is a place to help students develop the skills needed to improve their abilities in reading and writing. This means they will be introduced to strategies associated with active reading, brainstorming, organizing, revising and proofreading.

**ESL (ENGLISH AS A SECOND LANGUAGE) LAB**

***welcome.solano.edu/esl-lab/*** **(707) 864-7239**
**Main Campus (Bldg 100)**

The English as a Second Language Department operates an ESL Lab to provide listening comprehension, pronunciation, and note-taking practice for second language learners. Students may also work on grammar and elementary word processing while carrying 0.5 unit per semester of lab hours.

# Student Resources

**EOPS PROGRAM**
**(Extended Opportunity Programs & Services)**
***welcome.solano.edu/eops-homepage/***
***email: eops@solano.edu***
**(707) 864-7000 x4444 Student Services (Bldg 400) - 2nd Floor - Room 426**

The EOPS program's primary goal is to encourage the enrollment, retention and transfer of students disadvantaged by language, social, economic, and educational circumstances, and to facilitate the successful completion of these goals and objectives in college.

Eligibility criteria for the EOPS Program include:

- Resident of California (or an AB540 student)
- Enrollment in at least 12.0 semester units at Solano Community College.
- Have not completed more than 48-degree applicable units. Unofficial transcripts from previous college(s) or school(s) are required with Application.
- Qualification and receipt of the California College Promise Grant or CCPG (formerly BOG Fee Waiver) Fee Waiver A, B or C with a zero EFC.
- Status of educationally disadvantaged according to
- State defined Title 5 Guidelines:
  - Did not graduate from high school or did not obtain General Education Diploma (GED)
  - Graduated from high school with a grade point average below 2.50 on a 4.00 scale. Unofficial copies of high school transcripts must be submitted with Application.
  - Previously/currently enrolled in remedial courses.
  - First generation student, foster youth, or disproportionately impacted student group.

EOPS support services include:

- Program review - orientation
- Academic, career, and personal counseling
- Bus tours to four-year colleges and universities
- EOPS Lab (study room for EOPS students)
- EOPS Book Library
- EOPS Book Lending Library
- EOPS Grant (based on funding)
- EOPS Transportation Grant (based on funding)
- Student Education Plan (SEP) development
- Fee waiver assistance for university applications
- Priority registration and registration assistance
- Progress reports
- Workshops
- Book voucher program for fall and spring semesters
- Transfer & Career Assistance

**LIBRARY**
***https://libguides.solano.edu/home***
**Main Campus – Bldg 100 Vallejo – Room 124A**

The Library houses a reserve collection of class-related materials and media, as well as a wide variety of materials for basic research. The Library also houses an Information Commons with sixty PC's, providing students with access to the Library's online catalog, databases, word processing packages, Excel, PowerPoint, and the Web. It also contains a Bibliographic Instruction Classroom accommodating students in library orientations and workshops, as well as Information Competency, Research and Web Searching courses. Independent and group study/work spaces are available as well.

The Library is open Monday through Friday when classes are in session, and is closed on all school holidays and breaks between sessions. The Library's website posts current hours of operations.

**NextUP Program**
**www.solano.edu/eops email: eops@solano.edu**
**707-864-7000 x4444**
**Student Services Bldg. 400 – 2nd Floor – Room 426**

NextUP assists students under age 26 who identify as current or previous foster care recipients. NextUP students are part of the EOPS program and receive the same services as EOPS students. Please see the EOPS section for more information.
Eligibility:

• Be a current or former foster youth whose dependency was established or continued by the court after your 13th birthday (must provide written verification)

• Be no older than 25 at the beginning of any academic year you participate in NextUP

**PUENTE PROGRAM**
***welcome.solano.edu/puente-project-homepage/***
**Puente Counselor/Coordinator: (707) 864-7000 x5779**
***Rebecca.LaCount@solano.edu***

The Puente Program has won accolades for its approach to helping more than 400,000 underserved students thrive academically – by holding high expectations, valuing cultural and social capital, and ensuring that students and their families have critical college-going information and guidance. Puente's mission is to increase the number of educationally underrepresented students who enroll in four-year colleges and universities, earn degrees, and return to their communities as leaders and mentors to future generations. The Puente Program has three main components:

# Student Resources

1. ***One-year writing program:*** ENGL 001, LR 010, and ENGL 310D in the fall and ENGL 002 in the spring. These classes provide a supportive and stimulating environment for Puente students to build confidence in writing skills.
2. ***Focused counseling services:*** Students take COUN 007 and work closely with the Puente counselor until graduation, exploring career options, developing an academic educational plan and identifying lifetime goals. Students will visit University of California and California State University campuses and attend an annual student transfer conference.
3. ***Professional community mentors:*** Each student is matched with a mentor from the business or professional community. Mentors share with students personal, academic, and career experiences, and provide a window into a "real life" work environment.

***welcome.solano.edu/soar-homepage***

***SOAR@solano.edu***

**Student Services (Bldg 400) - 2nd Floor - Room 435**

**M-R 9am-5pm** **(707) 864-7194**

SOAR is a campus based community and support program focused on strengthening and expanding educational opportunities for formerly incarcerated students. Our mission is to support these students as they transform their lives through higher education. The SOAR Center is a stigma free space where SOAR Scholars can study, access technology and mentor each other on their path from reentry to graduation. SOAR connects students with resources on and off campus so they can achieve their educational, personal and career goals.

**STUDENT CLUBS** **(707) 864-7000 x4367**

***welcome.solano.edu/assc-student-clubs/***

**Student Center (Bldg 1400, Student Life Office) – 1425**

A wide range of clubs and organizations reflecting cultural, social, ethnic, and academic interests are active on the campus. The Inter-Club Council is the governing body for clubs on campus and each club can have one voting member at the meetings. Inter-Club Council meetings are held the first and third Thursday of the month in room 1421 from 12:30 – 1:30pm during the Fall and Spring semesters. Announcements of meetings and activities are available from the Student Life office.

**STUDENT LIFE OFFICE**

***welcoe.solano.edu/student-life***

**(707) 864-7000 x4367**

**Student Center (Bldg 1400) - 1425/1426**

The Student Life office provides students with information about campus activities, special events, resources, and policies. Also, home to the College's Lost and Found. The Office supports an active student government program and encourages students to use the many services provided by the College. The Student Life office is a focal point for service and student leadership development. A wide variety of programs, services and clubs are available to students. Students are involved in decision making and policy determination through their representation on many college committees.

**TECHNOLOGY SERVICES & SUPPORT**

***welcome.solano.edu/technology-services***

***Helpdesk@solano.edu*** **(707) 864-7000 x4690**

**Bldg 100, M-F 8am – 4:30pm**

Technology Services and Support (TSS) is responsible for all matters related to information technology services, strategic technology planning, and local data/telephone network planning and implementation.

TSS exercises overall responsibility for administrative computing, academic and instructional technology support programs, telephone, network infrastructure, local and wide area networks, media, and videoconferencing.

**TRANSFER CENTER**

***welcome.solano.edu/transfer-center-homepage***

**(707) 864-7158**

**Student Services (Blgd 400), 1st Floor**

The Transfer Center provides prospective transfer students with direction and assistance in navigating the transfer process. Obtaining regular assistance with transfer planning is essential for a successful transition to four-year universities and colleges. The Transfer Center can connect students with universities in a number of ways including campus tours, transfer fairs, and meetings, in person or virtually, with college admissions representatives. Students who visit the Transfer Center can receive assistance with learning about and selecting prospective universities, finding information about preparatory coursework, application assistance, and help with next steps after acceptance or denial from a university.

Services at the center are offered on a drop-in basis. The Transfer Center hours can be found on the Transfer Center website at ***http://www.solano.edu/transfer/events.php***

# Student Resources

**VETERANS RESOURCE CENTER (VRC)**

***welcome.solano.edu/vrc-homepage/***
***Veterans@solano.edu***
**Bldg 2700 – Room 2750** **(707) 864-7105**
**M-R 8am – 6pm** **Fax: (707) 646-2092**
**F 8am – 1pm**

The Veterans Resource Center (VRC) provides assistance to Veterans, Active-duty, Reservists, National Guard, and eligible dependents of Veterans and Active-duty in their pursuit of an education, obtaining their Veterans Education Benefits (including VA work-study), DoD Tuition Assistance and My CAA. The student will receive assistance in filing for benefits, counseling through our Veterans Counselor and Active-duty Counselor on staff and we will act as the liaison between the Government Agency and the student.

***Veterans Education Benefits***

- Chapter 30 – Montgomery GI Bill ® – Active-Duty
- Chapter 31 VA Vocation Rehabilitation
- Chapter 33 – Post 9/11 GI Bill ® – Forever GI Bill ®
- Chapter 1606 – Montgomery GI Bill ® – Reservists

***Dependent Education Benefits***

- Chapter 35 – Dependent educational Assistance
- Fry Scholarship
- California Veterans Fee Waiver Program

***Active-Duty & Reservists***

- Department of Defense Tuition Assistance

***Spouses of Active-duty Members***

- My CAA

Note that in order to receive benefits while attending SCC, all students must be a regularly matriculated student and all classes taken must be required for the education objective selected.

**Veterans and Armed Forces Priority Registration** Eligible individuals who meet Title 5 Section 58108 Registration and Enrollment Procedures will be provided priority registration. Students must complete a Veterans Recourse Center Priority Registration Request Form & Provide supporting Documentation to the Veterans Resource Center.

**Documentation accepted:**

***Veterans***

- DD-214 Member 4 or copy 2 or 7
- VA Card
- CA Driver's License with Veteran Designation

***Armed Forces***

- Copy of Military Orders
- Active-Duty Leave and Earnings Statement (LES)

**Veterans and Veteran Dependents Residency - H.R.7105 (Section 1005)**

Affective August 1, 2021, all "covered individuals" will be charged as a California Resident. Contact the Veterans Resource Center for "covered individuals" eligibility.

**Veterans Benefits and Transition Act of 2018 (Public Law 115-407) Title 1 – Education, Section 103**

Solano Community College District complies with Veterans Benefits and Transition Act of 2018 (Public Law 115-407) Title – Education, Section 103. The District allows GI Bill (Chapter 33) and VR&E (Chapter 31) beneficiaries to attend a course of education for up to 90 days from the date the beneficiary provides a certificate of eligibility, or valid VAF 28-1905. The District will not impose a penalty, or require beneficiary to borrow additional funds to cover tuition and fees due to late payments from VA.

In accordance with California Military Families Financial Relief Act of 2005 Section 824 (b)(1), Solano Community College shall make arrangements to reasonably accommodate and assist the student so that he or she is able to meet any and all coursework requirements that he or she may have missed due to military service.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at ***www.benefits.va.gov/gibill***, and the policy Veterans Benefits and Transition Act of 2018 (Public Law 115-407) Title 1 – Education, Section 103

# Student Resources

## GENERAL CAMPUS SERVICES

**ATM SERVICE**

**Student Center (Bldg 1400) - Lobby**

An ATM is available for students, staff, and visitors to the campus. All major ATM cards are accepted. Bank fees may apply.

**BOOKSTORE**

***www.bkstr.com/solanostore/home*** **(707) 864-7111**

**Student Center - Building 1400**

The Bookstore is responsible for providing used, new, rental, and digital text-books and instructional materials at a reasonable cost. The Bookstore also carries a selection of reference books, study aids, gifts, school and art supplies, and Solano Community College imprinted clothing. The Bookstore is open to the public all year, except campus holidays, and accepts Master Card, Visa, American Express, and Discover Card.

Book Buyback: Students may sell textbooks back to the bookstore at any time; the best time is at the end of the term during finals week.

Hours of operation vary in conjunction with the College calendar. For more information, hours, book buyback, refunds, selected products, services, textbook information, online ordering, and policies see the Bookstore's website.

**CAFETERIA**

**Student Center, Building 1400**

**Fall/Spring M-R 7:30am-5pm, F 9:30am-1pm**

The cafeteria offers a wide selection for breakfast and lunch from its full service grill. The selection includes daily hot lunch menus, soups, salad bar, deli sandwiches, Mexican and Asian menus, vegetarian, desserts, snacks, and beverages featuring our Peet's espresso bar.

**COSMETOLOGY SERVICES**

***welcome.solano.edu/cosmetology-services-prices/***

**(707) 864-7000 x4389**

**Bldg 1600 – Room 1610**

The Cosmetology Department, during the semester, offers haircare, skin care, and manicuring services. All work is done by students, with instructor supervision.

Complimentary parking passes for clients are issued by the reception desk and must be placed on the dash of the client's vehicle. An allergy test must be on file with the Cosmetology Department if the client wishes to have chemical services performed. Appointments are appreciated but not required.

**HOUSING**

The College does not maintain dormitories. Students may obtain information on off-campus housing from the bulletin board in the Student Center located in Building 1400.

**HEALTH CENTER FOR STUDENTS**

***welcome.solano.edu/health-center/*** **(707) 864- 7163**

**Student Center (Bldg 1400) - Room 1409**

**Fall/Spring M-R 8am-6pm, F 8:30am-3pm**

**(Limited summer hours)**

A Public Health Nurse and Health Assistant are available for student's health needs.

Services include:

- Nursing assessment and management of minor health problems
- Treatment of minor acute illnesses and referrals
- Dispense over the counter medicines
- First aid and campus emergencies
- Pregnancy counseling and birth control information, including pregnancy testing
- Free female and male condoms, latex and latex-free
- Nutritional counseling
- Sexually transmitted disease information and referrals
- Tuberculosis skin testing and referrals, if needed
- Information regarding communicable diseases, including Flu shots
- Hearing and vision screenings
- Blood pressure screenings
- Blood glucose, hemoglobin, strep- throat test, urine screenings, peak flow test
- Information and referral for substance abuse (drugs, alcohol, smoking)
- Information and counseling on various health-related problems
- Free brochures on health-related issues
- Rest area for ill students
- Outreach to off site campuses and the Children's Programs in Bldg. #200
- Information on Smoking/Tobacco Cessation Classes

The Public Health Nurse visits the Vallejo Center and Vacaville Center for most services. Contact the Student Health Center for times/hours of nurse visits to Centers. Students are welcome to drop-in for care or make an appointment.

Current schedules of activities sponsored by the Health Center can also be found in the ASSC Newsletter, published twice a month and posted online at ***www.solano.edu.***

# Getting Started

## TRANSPORTATION

**Parking Enforcement**
Parking is not enforced the first week in student lots during the fall and spring semesters and first summer session.

Permit parking is enforced in student lots during each semester and summer session M-F 7 a.m. – 10 p.m.. Ride Share, Visitor Parking, Faculty and Staff Parking, Disabled Parking and other reserved areas require display of appropriate parking permit at all times 24 hours a day, 7 days a week.

Parking Handbooks are available online at ***welcome.solano.edu/dps-parking/*** or at the Department of Public Safety's office in Building 1800B on the Fairfield Campus. California Vehicle Code and SCC District parking regulations are enforced by the Campus Department of Public Safety.

An appeal process is available to contest parking citations ***www.pticket.com/solanocc***, click on "How to Contest". For questions regarding parking, call (707) 864-7131.

### Parking Permits

Daily or semester parking permits are required and must be clearly displayed (semester and permit # or date and time for daily displayed permits) throughout each semester and summer session for all vehicles parked at the Fairfield Campus, the Vacaville, Vallejo Centers and the Vallejo Auto Tech Center. Parking permits are not transferable from one person to another. It is against the law to alter, forge, reproduce, sell, or loan a parking decal to another person. Faculty/Staff and designated reserved parking (Rideshare, Disabled, Visitors, etc.) is enforced 7 days a week, 24 hours a day. Motorcycles may park in designated motorcycle areas without cost or permits. Motorcycles parked in other areas require permits at the vehicle price. Reference Debts and Fees Section for current permit prices.

Parking permits for the upcoming term are available at the time of registration and throughout the term.

- Log in to MySolano ***www.solano.edu***
- Click on "Student" on the left hand side
- Under the "Parking" block, click on"Purchase Parking Permit"
- Select the Appropriate Term
- Fill out all information then click "Next"
- Choose or complete "Deliver to" address then click "Next"
- Make any needed edits and/or click "Next"
- Enter credit card information
- Agree to Credit Card Transaction Agreement then click "Submit My Order"
- Follow the link to print out a Temporary Parking Permit, or go to the order confirmation email and
- print the attached Temporary Parking Permit

The parking permit should arrive by mail 7 – 10 business days after purchase.

### Daily Parking Permits

- Daily permits must be purchased and displayed each day for vehicles parked on campus
- Purchase Daily permits from Dispensers which accept one-dollar bills, coins. and debit cards
- Dispensers are located near the entrance of each lot
- Daily parking permits are interchangeable between the Fairfield Campus, the Vacaville and Vallejo Centers, and the Vallejo Auto Tech Center
- An inoperable dispenser does not relieve the requirement for a parking permit. A functioning dispenser must be located to purchase a daily parking permit
- Notify the Campus Sheriff's office if the permit dispensers malfunction: (707) 864-7131, or Bldg. 1800B

### Rideshare/Car Pool Permits

- Visit the Student Life office in Room 1425 (across from the Bookstore, Fairfield Campus) to apply for a Rideshare permit. Rideshare permits are available on a limited basis for current SCC students who have three or more current SCC students sharing transportation to campus (carpooling)
- Provide current SCC ID cards, proof of enrollment, and license plate numbers of all cars to be driven as part of Rideshare/Car Pool
- Contact the Student Life office for more information: (707) 864-7000 ext. 4367, or Bldg. 1400, Room 1425

Rideshare parking spaces are not available at the Vacaville or Vallejo Centers.

**Parking Lot Information**

Student Lots:

| | |
|---|---|
| Fairfield Campus 1 – 7 | Vacaville Center 1 – 4 |
| Vallejo Center 1 – 2 | Vallejo Auto Tech Center |
| Faculty/Staff Lots: | Fairfield Campus A – F |
| | Reserved stalls in other locations |

**Disabled Parking**

Individuals parked in the marked Disabled Parking spaces must have state issued placard or plates AND an SCC daily or semester parking permit.

**Early Learning Center Parking**

15-minute drop-off or pick-up parking is available in the yellow zones in Lot D outside 200A. No faculty/staff or student parking is allowed in the Child Care Center yellow zone parking.

**Cosmetology Services Parking**

Parking for Cosmetology Services is located in Lot D. Cosmetology Parking spaces are in front of the Cosmetology Building (1600). Patrons must display a permit from the Cosmetology Department. These spaces are restricted to Cosmetology patron parking M-F 8:00a.m. – 5:00p.m.

**Visitor Parking**

Visitor parking is available in marked spaces in Lot 1. Parking is available in these spaces for 30 minutes at a time in a 4-hour block. For visits longer than 30 minutes, daily parking permits can be purchased from the dispensers. The visitor parking area is not available for faculty, staff, or students.

**Rideshare Parking**

Special permits are available for 3 or more SCC students sharing transportation to the Fairfield Campus to park in Rideshare spaces in Lots 1 and 2.

**Travis Air Force Base (TAFB) Parking**

Obtain base pass at the Visitor Control Center, 615 Airbase Parkway, Fairfield, CA (located on the left-hand side before the main gates) by providing the following information:

- A REAL ID is required to get on base. If driver's license states "Federal Limitation" you will be required to bring your U.S. Passport and Social Security card for identification purposes. If your driver's license does not state "Federal Limitations" you can use your license to be granted a base pass.
- Valid car registration for the vehicle driven to class each week (vehicle [gate] passes are not transferable to any vehicle other than the one for which the pass was originally issued)
- Valid proof of vehicle insurance
- Proof of enrollment at Travis AFB (registration printout with current classes is acceptable)
- Additional forms of identification as needed upon request
- Allow one hour for issuance of a gate pass.

Students must have their own transportation to Travis AFB. Automobiles without military ID or an authorized semester pass will not be admitted on Travis AFB.

Register for a course at Travis AFB by contacting the instructor to obtain an 'add code' and add the class. Contact the Travis AFB office at (707) 863-7878 for additional instructions.

Other Locations
Vallejo Automotive Technology - 1687 North Ascot Parkway, Vallejo
Vacaville Nut Tree Airport (Aeronautics) - 275 County Airport Road, Vacaville
Various high schools throughout the region
Distance Education
ONLINE codes
ONLN
OVJO
OVV

**Rising Scholars**

California State Prison Solano (CSPS)
California Correctional Medical Facility (CMF), Vacaville
Classes at CSPS and CMF are not open to the general public
Additional Location Information For specific locations and times, registration, and other information, refer to the Schedule of Classes at the SCC website www.solano.edu or contact the Admissions and Records Office at (707) 864-7171 or email admissions@solano.edu On- and Off-campus classes: Classes and Counseling services are offered at the Main Campus and the three off-campus centers. Classes are also offered at other locations throughout Solano County.

Parking permits are required at the Main Campus and the three off-campus centers. Permits must be placed as indicated on the permit directions. Parking fees are subject to change. An appeal process is available to contest parking citations. For more information regarding parking, visit the Department of Public Safety or email at parkingservices@solano.edu or call (707) 864-7131.
Application and Admission

# Getting Started

### APPLICATION FOR ADMISSION

Applications for admission with detailed instructions are available on the college website at ***www.solano.edu*** click "APPLY NOW!."

An application must be submitted if a student is:

- A New Student entering Solano Community College for the first time
- A Returning (Former) Student who did not attend Solano during the prior semester
- An International Student ***www.solano.edu/international***
- A Student In Grades K-12 enrolled in a public or private school seeking special admission ***www.solano.edu/hs_students/***

### ADMISSION TO THE COLLEGE

Admission to Solano Community College is open to anyone who is a high school graduate, has a high school equivalency certificate, or is 18 years of age or older and shows evidence of being able to benefit from instruction. All inquiries concerning application, admission and registration should be sent to Solano Community College Admissions and Records, 4000 Suisun Valley Road, Fairfield, CA 94534, (707) 864-7171, ***www.solano.edu/ar/.***

## STUDENT SUCCESS AND SUPPORT PROGRAM (SSSP)

SSSP is a process that brings students and their college into an agreement about the choices and processes needed for the student to realize their educational objectives. The agreement acknowledges the responsibilities and rights of both parties. As part of its on-going SSSP, Solano Community College provides a full range of services, including:

- Admission to the College
- Orientation to the College
- Counseling and advising
- Registration for courses
- Follow-up of student progress
- Various support services

Each student has the following responsibilities regarding SSSP services:

- Express a general educational goal at the time of admission
- Meet with a counselor to discuss academic choices and to develop an educational plan
- Identify a specific educational goal upon completion of 15 semester units of degree- applicable, credit coursework
- Attend classes and complete assigned course work
- Maintain progress toward the specified educational goal

The College has the following responsibilities:

- Use multiple sources of information as the basis of assessment for course placement.
- Provide special accommodations for students with learning or physical disabilities
- Provide a mechanism for changing a specified educational goal
- Inform students of their responsibilities and rights regarding matriculation services
- Upon request, provide students with written District procedures concerning challenges, complaints or appeals of SSSP services

The student has the right, and is strongly encouraged, to receive all SSSP services provided by the College. The student also has the right to refuse any or all of these services.

**Exemptions**

The following students may be exempt from orientation, and education planning:

- Students who have completed an Associate Degree or higher
- Students who seek to enroll only in non-credit courses
- Students indicating an educational goal of:
  - Job Skills – to maintain current job
  - Personal Interest – not for employment
  - Complete credits for High School
  - Maintain a Certificate or License (for example, in Nursing, Real Estate)

# Getting Started

## SPECIAL ADMISSION (K-12)

Solano Community College may permit the admission of K-12 students who, in the opinion of the Superintendent-President, or designee, can benefit from instruction. Approval of the student's principal, and parent or guardian is required. The intent of this program is to provide educational enrichment opportunities for a limited number of eligible students who fulfill special admission standards.

The College reserves the right to exclude or limit enrollment in courses or programs where health, safety, instructional methodology,facility constraints, or legal requirements are deemed inappropriate for special admission students.

Special admission students shall conform to the College's academic rules and regulations and the code of conduct expected of all college students.

Students under grade 9 must attend an interview with a College official, along with the parent or guardian.

Email ***admissions@solano.edu*** for additional information, or visit ***welcome.solano.edu/ar-k12-admission***/

## INTERNATIONAL STUDENT ADMISSION

Email ***international@solano.edu***
***solano.edu/international***

Solano Community College admits international students each semester. Applications are accepted year round. International students must meet the following admission requirements:

1. File official transcripts from all secondary schools, universities or professional schools. Transcripts must be accompanied by an official English translation.
2. Submit scores from the Test of English as a Foreign Language (TOEFL). A minimum score of 500 is required for admission on the paper-based examination. A score of 61 on the internet-based test is required for admission (subject to change) and a score of 7.0 is required from the IELTS.
3. File a current declaration and certification of finances.
4. File a current certificate of health, including a tuberculin test. A copy of the health verification certificate submitted to immigration is acceptable provided it is not more than one year old.
5. Provide evidence of health and accident insurance protection.
6. Provide a local street address, not a post office box number, and a social security number, if applicable.

Students with an F-1 Visa must meet with the International Student Academic Counselor each semester for approval of their academic programs. Each student must maintain enrollment in at least 12 semester units of academic work each semester.

An email address is provided to all students and is the primary means of communication used by the college. Students should activate and check their email regularly.

Non-resident tuition is $368.00 per unit plus $11.00 per unit nonresidential capital outlay fee. All fees are subject to change by the State legislature.

## RESIDENCY

The California residency requirement has two parts, Act and Intent. To claim residency a student must prove having physically lived in and shown intent to remain in California by:

- paying California income taxes
- possessing a valid California driver's license
- registering and voting in the state
- owning and registering a car in California
- the absence of these ties with another state

The payment of California state income taxes is an important act of intent. Concurrent with these acts of intent, physical presence in the state for one year and one day prior to the first day of classes is needed to establish California residency. Because the residency requirement is complicated, students with questions should contact the Admissions and Records office and visit welcome.solano.edu/ar-residency/ .

## TRANSCRIPTS FOR ADMISSION

The following students are required to submit official transcripts from all regionally accredited institutions:

- Applicants for the Nursing Program
- Veterans
- International students
- Students receiving financial assistance
- Recipients of California State Scholarships must file high school transcripts showing the eight semesters
- Participants in intercollegiate athletics

Students planning to complete an A.A./A.S. degree or certificate should submit transcripts from other institutions if the units apply toward the degree or certificate requirements. The applicant is responsible for requesting the transcripts be mailed directly to the Admissions and Records office.

# Getting Started

## PLACEMENT/ ORIENTATION PROGRAM

All new, non-exempt students should complete the assessment/orientation process prior to registering for classes. Guided self-placement, orientation and counseling are part of this process. See exemption criteria under SSSP.

Procedures: To gain the most from these services, students should plan on completing the matriculation process in the following sequence:

- Visit www.solano.edu/ar/apply to complete an "Application for Admission".
- Complete an online orientation session at www.solano.edu/vip/ or complete an in-person orientation.
- Meet with a counselor to complete an education plan.
- Register for classes.

Additional information may be obtained from the Counseling Office or at the Admissions and Records office.

## GUIDED SELF-PLACEMENT

English/Math Placement: After completing the application in CCCApply, students who provided information regarding the highest level English and math completed in high school will receive an email to their Solano email address with information about suggested college-level math and English courses to take.

AB 705 requires that colleges maximize the probability that students will enter and complete transfer-level coursework in English and quantitative reasoning/mathematics within their first year of enrollment.

**Math Placement**

Students entering Solano Community College are minimally eligible to take the following transfer courses, regardless of prior math experience (consult with a counselor for specific guidance based on career and educational goal):

Transfer Level:

- MATH 002 - Algebra for Calculus (College Algebra)
- MATH 004 - Precalculus and Trigonometry
- MATH 030 - Business Calculus I
- MATH 051 - Trigonometry
- MATH 011 - Statistics (with/without a co-requisite lab based on High School GPA)
- MATH 012 - Mathematical Ideas

**English Placement**

Students entering Solano Community College are minimally eligible to take the following transfer-level English course, with or without co-requisite lab based on High School GPA and Jr/Sr English grade:

- ENGL 001 - College Composition
- ENGL 001E - College Composition for Non-native English Speakers
- ENGL 001X - College Composition with Support

English Placement

## ENGL and MATH Multiple Measures Placement Recommendation (AB705 Compliance)

| ENGL Placement Recommendation by Multiple Measures | | |
|---|---|---|
| Highest HS ENGL | GPA <2.60 | GPA≥2.60 |
| Jr./Sr. ENGL | ENGL 001X | ENGL 001<br>Other Clearance: [Jr./Sr. ENGL with B or better] OR [AP ENGL with C+ or better] OR [Accuplacer Score = 90 or higher} |
| ENGL 001E available for non-native English speakers | | |

Math Placement - Liberal Arts and Social Sciences Majors

| Highest HS MATH | Pass / Fail | GPA < 2.30 | 2.3 ≤ GPA < 3.0 | GPA ≥ 3.0 |
|---|---|---|---|---|
| Pre-Algebra | Fail | MATH 011/311 or MATH 012; MATH 505 is strongly recommended | | |
| | Pass | | | |
| Algebra 1, Intg Math1, 2, Geometry | Pass | MATH 011/311 or MATH 012; MATH 505 is strongly recommended | | MATH 011, 012; MATH 505 is recommended |
| Algebra 2, Intgd Math 3, Trigonometry | Pass | | | |
| Statistics | Pass | | | |
| Intgd Math 4, Pre-Calculus, Math Analysis | Pass | MATH 011, 012; | MATH 011, 012, 055; | |
| Calculus or higher | Fail | MATH 011, 012; MATH 505 is recommended | MATH 011, 012, 055; MATH 505 is available | |
| | Pass | | | |

Math Placement – Business and STEM Majors

| Highest HS MATH | Pass / Fail | GPA< 2.6 | 2.6 ≤ GPA < 3.4 | GPA≥3.4 |
|---|---|---|---|---|
| Pre-Algebra | Fail | MATH 051, 002, 030; MATH 505 support is strongly recommended | | |
| | Pass | | | |
| Algebra 1, Intg Math1, 2, Geometry | Pass | | | |
| Algebra 2, Intgd Math 3, Trigonometry | Pass | MATH 002, 030, 051; MATH 505 support is strongly recommended | MATH 002, 030, 051; MATH 505 support is recommended | MATH 002, 004, 030, 051; MATH 505 is recommended |
| Statistics | Pass | | | |
| Intgd Math 4, Pre-Calculus, Math Analysis | Pass | MATH 004, 020, 030; MATH 505 is recommended | MATH 020, 030; MATH 505 is available | |
| Calculus or higher (Failed Grade) | Fail | | | |
| Calculus or higher (Passed Grade) | Pass | MATH 020, 021, 030, 031; MATH 505 is recommended | MATH 021, 031; MATH 505 is available | |

# Getting Started

## PRIORITY REGISTRATION

Set by Title 5 section 58108 Registration and Enrollment Procedures

***58108(a-g)***

Districts shall adopt policies and procedures for registration and standards for enrollment in any course(s) that are consistent with these and other sections of Title 5 and uniformly administered by appropriately authorized employees of the district.

The intent being to provide priority registration for students who enroll in a community college for the purpose of degree or certificate attainment, transfer to a four-year college or university, or career advancement.

The priority registration shall be provided to students in the following order and will be listed on the SCC Website approximately 2 weeks prior to the start of the registration period:

1. Veterans, homeless youth, foster or former foster youth, students eligible and receiving services through ASC, EOPS, CalWORKs
2. Athletes, ASSC
3. Continuing Students
4. New Students who have completed Orientation and Ed Plan
5. Returning Students
6. Transfer Students
7. New students who have NOT completed Orientation, Ed Plan
8. Concurrently enrolled K-12 students
9. Open Registration

***58108(h 1-5)***

Registration priority specified in subdivision (c) of this section shall be lost at the first registration opportunity after a student:

1. is placed on academic or progress probation or any combination thereof as defined in section 55031 for two consecutive terms; or
2. has earned one hundred (100) or more degree-applicable semester or quarter equivalent units at the district.
    - For purposes of this section a unit is earned when a student receives a grade of A, B, C, D or P as defined in section 55023.
    - The 100-unit limit does not include units for non-degree applicable English as a Second Language or basic skills courses as defined in section 55000(j) or special classes as defined in section 55000.
    - Districts may set the unit limit lower than 100 units and may consider units from other higher education institutions. Solano Community College has set the limit at 90 units excluding transfer units from other higher education institutions.
    - Districts may adopt policies to exempt from the 100-unit limit categories of students, including but not limited to, those enrolled in high unit majors or programs.
    - Districts may exempt from the 100-unit limit units earned through credit by examination, advanced placement, International Baccalaureate, or other similar programs.

## STUDENT CLASSIFICATION

Students are classified in terms of the number of units they have completed and the units in which they are currently enrolled.

***Freshman***: A college student who has earned from 0.0 to 29.5 semester units of college credit.

***Sophomore:*** A college student who has earned from 30.0 to 60.0 semester units of college credit.

***Full-time:*** A student enrolled in 12.0 or more semester units.

***Part-time***: A student enrolled in 11.5 or fewer semester units.

***Post Associate Degree***: A student who has been awarded an A.A., A.S. or higher degree.

## REGISTRATION PROCEDURES

**Preparation -** Students should acquaint themselves with college policies and study the information in this Catalog, the Schedule of Classes and registration materials supplied by the Admissions and Records office (A&R). The Admissions and Records office is a convenient place to ask questions about College procedures, visit the website at ***www.solano.edu***. The following registration procedures apply to students enrolling in day, evening, on-campus, and off-campus classes.

**Student Load -** A student load is defined as the total units carried in a program in any one semester. Fifteen units constitute the normal semester program; twelve units constitute minimum full-time enrollment. In many cases, a program may require more than fifteen units per semester for a student to complete a major in the normal two-year period.

# Getting Started

Permission to carry an excess load of 20.5 or more units may be granted to individuals depending on the excellence of their academic work. A “Carry Excess Load” petition must be completed with a counselor. Petitions are available at the Admissions and Records office.

The California State Education Code specifies that each lecture hour of a community college class requires at least two hours of study outside of class. The following schedule is suggested for students who attend college and also work.

SUGGESTED TIME PLAN

| IF YOU WORK (Hrs./WK) | AND ENROLL IN (Lecture Hours) | AND STUDY (Recommended) | YOUR TOTAL LOAD IS (Hrs./Wk) |
|---|---|---|---|
| 40 | 3 | 6 | 49 |
| 30 | 6 | 12 | 48 |
| 20 | 9 | 18 | 47 |
| 10 | 12 | 24 | 46 |
| 0 | 15 | 30 | 45 |

# Getting Started

## REQUISITES AND ADVISORIES

It is the intent of Solano Community College to guide students into courses in which they will have the best opportunity for academic success. Therefore, many courses have corequisites, prerequisites, or advisories indicated in their descriptions.

Requisites ensure that the student has the minimum level of knowledge and/or skills to be successful in the specific course or program. Requisite information for a course, if any, appears in the catalog description. For registration purposes, if a student is currently enrolled in a prerequisite course, that student may enroll in a subsequent course contingent on successful completion of the prerequisite. If the student is unsuccessful in the prerequisite, they will be dropped automatically from the subsequent course.

***Corequisite:*** A course or equivalent preparation that must be taken concurrently with another course. A student's enrollment in a course with a corequisite is blocked until the requirements of the corequisite are satisfied.

***Prerequisite :***There are two types of prerequisites.

1. A course or equivalent preparation that must be completed before enrolling in another course.
2. A course or equivalent preparation that may be taken before or concurrently with another course. A student's enrollment in a course with a prerequisite is blocked until the requirements of the prerequisite are satisfied.

***Advisory:*** A course or equivalent preparation that will broaden or deepen a student's learning experience in a subsequent course. A student's enrollment in a course with an advisory is not blocked for lack of the advisory skills.

Advisories are recommendations made to enhance or deepen the student's learning experience in a course. While the advisory skills and proficiencies are not required in order for a student to be successful in the course, advisories should be taken seriously. For specific information, students should consult their counselor or faculty advisor.

**Verification of a Requisite:** Students desiring to enroll in a course or program that specifies a co/prerequisite course and who have completed such a course at an institution other than Solano Community College must submit documentation to verify this completion. This documentation (unofficial or official transcript or report card) must be presented to a counselor, or Office of Admissions and Records.

**Challenging a Requisite:**
A student has the right to challenge a course requisite based on the following grounds:

1. The requisite has not been established in accordance with the District process for establishing requisites
2. The requisite is either unlawfully discriminatory or is being applied in an unlawfully discriminatory manner
3. The requisite course has not been made "reasonably available" and the required completion of it will cause a delay of one or more terms in attaining the goal specified in the student's authorized Individualized Education Plan (IEP)
4. The student has the knowledge or ability to succeed in the course or program despite not meeting the requisite.

In the challenge process, the burden of proof is on the student. In order to file a challenge, students must submit a "Petition to Challenge a Course Pre/Corequisite," available at the Admissions and Records office. If the challenge is upheld, the student will be allowed to enroll, contingent on the availability of space in the course; if denied, the student will not be allowed to enroll or, if already enrolled, will be dropped automatically from the class. Refer to the form for more detailed information on the requirements and procedures for processing this petition.

## SCHEDULE OF CLASSES

A searchable class schedule is online at ***www.solano.edu.*** The Schedule of Classes contains registration information and instructions.

## WAITLIST

Waitlist allows students to show their interest in a course where the seat capacity has been reached. When a seat becomes available, the next student on the waitlist will receive a notification email which is sent to the student's preferred email account. It is the student's responsibility to check their email. If students choose to have their student email forwarded to their personal email, it is the student's responsibility to ensure that the forwarded address is correct and that the **donotreplya&r@solano.edu** is not blocked by the external email provider's spam filters. Students have 48 hours to register in the waitlisted course from the time the notification email is sent. Failure to register within the 48 hour notification window will result in the student being expired from the waitlist which opens the opportunity for the next student to register.

# Getting Started

## LATE REGISTRATION

During the first week of each semester, students must go to the classes they wish to attend. If space is available, the instructors will give them an add code which they should use to enroll in the course online through MySolano. All enrollment fees must be submitted upon registration. (See Academic Calendar at ***www.solano.edu*** for all deadlines.)

## DROPPING CLASSES

- Students are responsible for officially dropping courses online through MySolano before established deadlines.
- Students are responsible for paying all applicable fees each semester of attendance. Failure to pay fees may result in a hold on the student's account.
- Established deadlines are listed for each course on student's Schedule Bill.
- Students may be dropped from a class by the instructor for non-attendance.
- Students who do not officially drop courses may receive a grade of F.

## DEBTS AND FEES

All debts and Fees to the College must be cleared before students may register for classes. Most debts for the current semester that are associated with registration can be paid online. If students do not have internet access or their debt involves special circumstances, contact the Cashier's Office. at 707-864-7000 ext. 7210 or email CashierOffice@solano.edu . Debts left unpaid may be subject to collections and/or holds on student's records.

For proof of payment students are advised to:

- Keep receipts
- Print a copy of the confirmation page
- Save a screen shot on phone or tablet.
- Confirm payment cleared thorugh bank/credit card

PAYMENTS FOR ALL TUITION/FEES

- Can be made online through your MySolano account.
- Email completed & signed Credit Card Authorization form with picture ID to CashierOffice@solano.edu.
- Pay in person at the Cashier Office (located in building 400, 1st floor, between Counseling and Admissions & Records) or email CashierOffice@solano.edu.
- To pay by check, please make sure to write your name and SCC ID on the check.

Make check payable to: Solano Community College
and mail to:
Solano Community College
Attention: Cashier Office
4000 Suisun Valley Road
Fairfield CA 94534

• If you have been awarded a scholarship, kindly drop off the check and/or voucher (along with full student name and SCC ID# to ensure accurate and timely processing) to the Cashier Office located in building 400 or mail documents to:
Solano Community College
4000 Suisun Valley Road (Building 400)
Fairfield, Ca. 94534
Attn: Cashier Office

**TUITION (All fees subject to change):**

***Enrollment fee***

- $46 per unit
- There is no enrollment fee for non credit classes
- Fees are due and payable at start of term
- Upper division courses (numbered 400-499 as part of the Biomanufacturing Baccalaureate Degree) require an additional $84 per unit which cannot be covered by the California College Promise Grant

***Non-resident tuition fees*** (Out-of-State and International students)

- $368.00 per unit
- $11.00 per unit capital outlay fee
- Fees are subject to change

***OTHER REQUIRED FEES (All fees subject to change):***

**Health Center fee (not required Fall 2023)**

• Fall/Spring-$17.00

• Summer-$8.00

**Student Center fee**

• $1 per unit, up to a maximum of $10 per academic year

Student Representation Fee

• $2.00 per term

**Student Transportation Fee**

• $1.00 per unit, to a maximum of $10.00 per term, depending on number of units taken

• For waiver forms, visit https://welcome.solano.edu/ar-fees for additional information

**Health Center Fees**

The provision of health services is very expensive and the California Community College system does not have sufficient funds to subsidize student health services. The State Legislature mandates that the burden of supporting a student health center will be shared by all Solano Community College students through a general fee, regardless of whether they utilize the health center or have their own insurance.

The State of California has mandated this fee for credit courses through Section 72252 of the California State Education Code. The fee is not applicable to students who can demonstrate, at the time of enrollment, that they are recipients of benefits under the CalWORKS program, the Supplemental Security Income/State Supplementary program, or the General Assistance program. The fee is also not applicable to the following students: those who depend exclusively upon prayer for healing in accordance with the teachings of a bona fide religious sect, denomination, or organization; and/or students who are attending a community college under an approved apprenticeship training program. Fee waiver forms may be obtained from the Cashier's Office. Fee waiver information and form/s may be accessed at: http://www.solano.edu/ar/2021/HealthFeeWaiverSolanoCollege.pdf .

Refer to Financial Aid Programs & Eligibility CCPG information.

**Student Center Fees**

Education Code section 76375 authorizes districts to establish an annual building and operating fee, for the purpose of financing, constructing, enlarging, remodeling, refurbishing, and operating a student body center.

**Student Representation Fee**

California Education Code §76060.5 requires California community colleges to collect a student representation fee of $2 at the time of registration to provide support for governmental affairs representatives of local or statewide student body associations who may be stating their positions and viewpoints before government offices and agencies. This fee provides and enhances access to governance mechanisms for the purpose of effective representation, accountability, and also improving communication, coordination, and collaborative efforts to organize and advocate on issues affecting California Community College students.

**Student Transportation Fee**

The Student Body voted for a $1.00 per unit with a maximum of $10.00 per term, (depending on number of units taken) and all proceeds go to Solano Transportation Authority (STA) to cover bus fares for current SCC students to ride the bus for free. Students must show SCC-photo ID with a current term sticker to ride bus for free.

**OTHER GENERAL FEES (All fees subject to change):**

**Student photo-ID card for on-campus students**

• $5.00

• Solano photo-ID card is valid for nine consecutive semesters when validated with a current term sticker. Obtain current term stickers by reaching out to CashierOffice@solano.edu or visit: https://welcome.solano.edu/co-student-ids for more information.

**Student Photo-Identification Card Fee**

A photo-identification card is recommended for all students. Students should carry their card while on campus. The fee is payable at registration. Solano photo-ID cards are processed at the Cashier's Window, Bldg. 400 (first floor).

The card may be used during nine consecutive semesters of attendance with current term sticker. The card must be validated each semester upon presenting proof of registration and current term sticker will be provided. Students with a valid Solano photo-ID card are eligible for off-campus student discounts. There is no charge for the validation.

**Student transcript fee**

• $7.00

• Rush service $7.50

• $1.00 unofficial transcript (ordered through external services)

• Visit https://welcome.solano.edu/ar-transcripts for more information Diploma

• Diplomas will be mailed under separate cover from the Office of Admissions in early August

• Graduating students who attend the ceremony will receive a diploma cover without a diploma

• Students may email graduationinfo@solano.edu to reserve a diploma cover

**Instructional and required materials fees**

• See the Schedule of Classes

**Library fines**

• Fines vary and may be paid at the Circulation Desk, by cash or check only

• See website for more information at https://libguides.solano.edu/home

# Getting Started

**Parking permits**

Required for students parking their vehicles at the Fairfield campus, Vallejo and Vacaville Centers, and Vallejo Auto Tech Center

- $32 per vehicle, Fall/Spring
- $20 per vehicle, Fall/Spring for CCPG-A/BOG-A Students
- $16 per vehicle, Summer (motorcycles excluded)
- $2 daily

**Parking citations**

- $40 - $290 (fines; regular/disabled persons zone/safety zone/bus zone/etc…..parking citations)
- $46 (penalty fees*)

**Student on-campus enrollment verification fee**

- Verification service through the National Student Clearinghouse
- Visit www.studentclearinghouse.org for current fees and status information

**APPLYING FOR REFUNDS**

Refunds show as a negative balance on your student account. Our system cannot automatically process student refunds until after the census date of the term and the credit card used for payment has cleared (usually 10-14 days). To avoid delays when processing refunds, please make sure to check that the address on file is current. If your student account reflects a negative balance and you would like your refund sooner than the term census date, please email CashierOffice@solano.edu requesting a refund and it will be mailed within 2-3 weeks after the request. Refunds are processed in the form of a paper check mailed to your address on file.

**Enrollment and Non-Resident Tuition Refunds**

- Tuition Fee refunds only applicable if dropped prior to census date of enrolled term.
- All Other fees are non-refundable unless student drops prior to the start of term
- Payment for Tuition and Other Fees is due by the start of term

**Financial Aid**

Solano Community College participates in federal, state, and local programs that help students offset the cost of attending college. Be aware that financial aid is not intended to pay for all expenses, and it should be considered just one of many tools to help students achieve their educational and career expenses.

**How to apply for financial aid**

The majority of financial aid programs require a student to submit a Free Application for Federal Student Aid (FAFSA: studentaid.gov/h/apply-for-aid/fafsa) every academic year for which they hope to receive aid. Undocumented students who are AB-540 eligible may apply for state programs through the California Dream Act Application (CADAA: dream.csac.ca.gov). After submitting an application, the student should receive confirmation that the application was processed. Details on what to do next will be available in the student portal. A student cannot be awarded and paid financial aid until all requested documents have been submitted and approved. This process is generally quite quick (less than a week), but can be extended if there are special issues that pertain to the student's file.

Most Solano students who file a FAFSA or CADAA are eligible to have their tuition fees covered through either the California College Promise Grant (CCPG) or the Solano Promise Grant.

**Programs offered**

Financial aid at Solano Community College can be grouped into four broad categories:

- Grants/scholarships: gift aid that does not have to be repaid, unless the student has withdrawn from classes before completing 60% of the semester.
- Work-study: part-time employment at college or off-campus employer
- Loans: aid that must be repaid with any accrued interest
- Waivers: charges are removed but no money is given directly to students

Federal programs offered at Solano Community College include grants, work-study, and loans.

- Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant
- Federal Work-study
- Federal Direct Subsidized and Unsubsidized Loans

State programs include grants and fee waivers and are generally restricted to California residents and students with confirmed AB-540 status.

• Cal Grant A, B, and C
• Student Success Completion Grant for Cal Grant recipients
• Chafee Grant for Foster Youth
• Solano Promise grant
• EOPS / CARE grants
• CCPG fee waivers
For more information on programs and their specific eligibility requirements, please visit https://welcome.solano.edu/fahome/

**Who is eligible for financial aid?**
Almost everyone—regardless of income—is eligible for some type of financial assistance. Different programs have different eligibility requirements.

Federal Title IV financial aid eligibility criteria:
· Demonstrated financial need (except for certain loans).
· High school completion (HS diploma or equivalent)
· Be a U.S. citizen or eligible non-citizen.
· Have a valid Social Security Number or Alien Registration Number (ARN).
· Maintain Satisfactory Academic Progress (SAP).
· Not be in default on a federal student loan.
· Not owe money on a federal student grant.

Note that state programs mostly follow the Title IV eligibility criteria above, but usually differ in these ways:
· Undocumented students can also participate
· Students don't have to have a valid SSN or ARN
· Students must be residents of California or have confirmed AB-540 status

**Cost of Attendance**
Every aid year, the financial aid office develops a basic budget based on the expenses that all students are expected to have during a year. This budget is not an amount that the college charges, but an estimate of how much it costs to live for a typical nine-month school year. This estimate is used during the awarding process to determine your unmet financial need; many types of awards use unmet need as a criterion for eligibility or as a factor in determining award amounts. Note: Federal regulations require us to reduce a student's budget when they enroll in less than six units in a term.

For the 2023-24 aid year, the financial aid office has used state averages provided by the California Student Aid Commission to develop the following nine-month budgets:

| | Living off Campus | Living at home |
|---|---|---|
| Fees | $1,172 | $1,172 |
| Books, Supplies, and Equipment | $938 | $938 |
| Food and Housing | $19,431 | $10,125 |
| Transportation | $1,764 | $1,611 |
| Personal Expenses | $4,428 | $3,509 |
| **Total** | $27,733 | $17,455 |

**PAYMENTS AND DISBURSEMENTS**
In order to receive financial aid without any difficulties, students should complete these steps:
· Verify that the mailing address they have on file with the school is correct
· Set up their BankMobile preferences in advance of the first scheduled disbursement of the term
Solano Community College uses BankMobile to handle its financial aid disbursements. Students are required to contact
BankMobile to set up their preference for delivery method (direct deposit to current account, opening up new account with BankMobile, etc.) If they do not do so, there will be a significant delay while BankMobile issues a paper check.

When disbursing funds, SCC will first reduce any debts owed to Solano Community College, if applicable. Any remaining balance (refund) will go directly to the students by the disbursement method selected by the student (debit card, direct deposit, or paper check). Solano Community College uses BankMobile for financial aid disbursements.

There are two scheduled disbursements per semester. The first disbursement is scheduled on the first day of classes for the semester. The second disbursement is scheduled close to the 50% point in the semester. Pell Grants are split into two disbursements. Cal Grants and Student Success Completion Grants (SSCG) are disbursed at the midpoint in the semester.

If a payment (EFT or physical check) is undeliverable to the student, SCC will make attempts to pay the student until 90 days have passed from the original disbursement dates. After that point, the financial aid award may be reversed and the funds may be returned to the program providing the funding. This may cause the student to have a balance owed to the school. For this reason, students should ensure that the address they have on file with the school is correct.

**2023-24 SATISFACTORY ACADEMIC PROGRESS (SAP) POLICY**

Many federal financial aid programs administered under Title IV regulations (e.g. Federal Pell Grants, Federal Supplemental Educational Opportunity Grants (FSEOG) and Federal Direct Loans) and non-Title IV state programs (e.g. Cal Grants, Student Success Completion Grant (SSCG)) require students to meet federally mandated "satisfactory academic progress"

(SAP) standards in order to maintain eligibility. This policy sets forth the standards by which students will be evaluated.

Satisfactory Academic Progress evaluations

After grades post at the end of each term, Solano Community College (SCC) evaluates the satisfactory academic progress of all students who were enrolled in that term using the standards and procedures outlined in this policy. This evaluation looks at all periods of a student's enrollment, including those in which the student did not receive Title IV federal aid.

Students are notified of the results of the review in two primary ways:

· e-mail to the student's school email address; and

· an update to their Satisfactory Academic Progress status in the student portal.

Treatment of students with less than 12 attempted units

Federal SAP regulations allow institutions to use a graduated approach to assessing quantitative and qualitative standards wherein it is easier to meet SAP standards in the beginning of the student's program of study but still require the student to complete on time. Federal regulations also require that SAP standards never dip below those required by the institution for students who are NOT receiving federal financial aid.

In order to match the federal SAP policy more closely with the academic and progress standing rules used for all Solano students, students with less than 12 overall attempted units (including transfer units and courses with incomplete grades) will be considered to be making satisfactory academic progress. Once a student has attempted 12 units or more, the following standards will be strictly applied.

**Qualitative standards**

To maintain eligibility for Title IV aid (and non-Title IV programs that use SAP standards as an eligibility requirement), a student must maintain good grades.

For each course taken, a student is awarded quality points based on their performance that are equal to the unit value of a course multiplied by the grade points earned. SCC calculates grade points per unit using the following values: A = 4 points; B = 3 points; C = 2 points; D = 1 point; F = no points.

For example, a student who earned a B in a three unit class would receive 9 quality points (3 units X 3 grade points).

For each student, SCC computes a cumulative grade point average (GPA) with this formula:

$$\frac{\textit{Total units taken X total grade points earned}}{\textit{Total units taken}}$$

To meet SAP standards, a student must have a GPA of 2.0 or better on this 4.0 scale. This means that you have received a C grade or better in most of your classes.

Note:

• Grades for remedial and ESL courses are included in the cumulative GPA calculation.

• Grades for transfer courses will also be included in the GPA calculation if the records office has entered them into the student information system.

• Classes in which the student received the following grades are not included in GPA calculations: P, NP, CR, NC, I or W.

**Quantitative standards**

To receive Title IV aid, students must also demonstrate that they are completing their programs in a timely fashion.

• Students must complete at least 67% of the cumulative number of SCC units attempted at each SAP evaluation.

• The pace of completion is computed by dividing the total number of institutional units completed by the total number of units attempted.

• A student may not attempt more than 150% of the published amount of units required to complete the program in which the student is enrolled.

• For example, most AA/AS degrees are 60 units long, so their maximum time frame is 90 units. Once a student has attempted 90 units, they are no longer eligible for Title IV aid and must appeal to receive aid in subsequent terms.

• For eligible certificate programs, maximum time frame varies (i.e. 30 unit program = 45 units maximum, 18 unit program = 27 units maximum).

• All attempted units are counted in the calculation of the 150% program limits, including:

  • any accepted transfer units;

• courses for which a student has received a grade of "W"; and any incomplete courses.

**Warning status**
When students fail to meet one of the standards above, the Financial Aid office will place them on "Warning" status for the next term (assuming they were not already on warning, probation, or ineligible status for the term that was evaluated).
• Students may receive financial aid while on “Warning” status.
• Students who meet all SAP standards at the end of their Warning semester become fully eligible again in the following term.
• Students not making SAP at the end of the warning period are determined to be ineligible for financial aid.
Reestablishing Eligibility
• Students may reestablish their eligibility by taking classes without receiving Title IV aid and meeting all qualitative and quantitative SAP standards listed above.
• Any grade changes that occur will be assessed at the request of the student.
• Unlike some state programs, sitting out one semester or longer will not reestablish eligibility for federal financial aid and/or Cal Grants.
• Students returning to Solano after an extended time should contact the Financial Aid office to revisit their eligibility.

**Appeal Process**
Students determined ineligible for federal financial aid due to unsatisfactory academic progress may submit an appeal if they had extenuating circumstances that affected their ability to perform well in school. Extenuating circumstances may include illness, injury, death in the family, change in employment, or any other situation that may have made it difficult to succeed in their coursework.
• Appeals require the following documentation:
• Typed, signed, and dated statement that includes:
• What extenuating circumstances caused the student to fall below the SAP standards;
• What has changed that will allow the student to meet the standards and successfully complete their program of study; AND
• Sufficient detail for a person unfamiliar with the student’s situation to make a decision based on the statement alone.
• A comprehensive Student Education Plan (SEP)
• Any additional information requested by the financial aid office
• The Financial Aid office will review each appeal on a case-by-case basis and inform the student of the results of the appeal. Note that submitting an appeal is not a guarantee that the appeal will be approved.
• If a SAP appeal is approved, the student will be placed on “probation” status (see below)
• If a SAP appeal is denied, the student will be ineligible for financial aid that term. They may reestablish eligibility according to the rules outlined in this policy, or file another appeal in a subsequent term if their situation has changed sufficiently to warrant a new appeal.
Probation
• Students who receive an approval for their SAP appeal will be placed on probation status.
• Students may receive financial aid during terms of probation.
• Students must complete 67% of their units attempted with a 2.0 GPA each semester while on probation.
• The SEP submitted with the initial appeal sets the length of time in which the student is supposed to complete their program of study
• If the student completes 67% of their units attempted with a 2.0 GPA each term, they can stay on probation until they have reached the final term indicated in the SEP.
• If a student on probation status fails to meet the pace of completion and GPA requirements, they will be deemed ineligible for the following term.
• Any future appeals will have a higher level of scrutiny applied since the student failed to meet the conditions of the first one.

**Transfer units**
• Transfer units accepted by SCC will be included in the calculation of a student’s GPA if the records office has entered those grades into the student information system.
• Transfer units accepted by SCC will be included as both attempted and completed units in the evaluation of student’s pace and maximum timeframe.

**Incomplete grades**
• Incomplete grades are not included in the qualitative GPA calculation.
• Courses with incomplete grades are included as attempted units for both the pace and maximum timeframe measures used in the quantitative standards.
• Once an incomplete course has been completed, the resulting grade change will be used in subsequent SAP evaluations. Previous evaluations that used the incomplete grade will not be re-evaluated.

**Course repetition**
• If a student has earned a passing grade in a course, they may only repeat it once and receive Title IV aid for it. Exceptions may include art, music, and/or athletic courses that students may take each term to stay in practice.
• If a student repeats a course, but withdraws before completing it that course will not be considered a repeat attempt.
• Only the most recent attempt of a repeated course will be included in the GPA calculation
• Repeated courses will be included in the pace and maximum timeframe calculations

**Effect of withdrawals**
• Withdrawing from a course before it starts will not affect a student's SAP evaluation.
• Classes with a final grade of W will not be included in the calculation of GPA used in the qualitative standard.
• Classes with a final grade of W will be treated as attempted units, adversely affecting both the pace and maximum timeframe measures of the quantitative standards.

**Changing or adding programs of study**
• SAP will be evaluated based on the student's primary declared program of study.
• Any SCC units used to pursue other programs of study (former or concurrent) will be used in the evaluation.
• Students can expect to appeal when they've reached the maximum timeframe for their primary declared program of study even if they have remaining coursework in a second certificate or degree program California College Promise Grant (CCPG) loss of eligibility The CCPG program has standards that are separate and distinct from the SAP standards discussed above. Once a student has been awarded the CCPG, they must meet the following standards or risk losing their CCPG eligibility:

• Academic standing - Maintain a cumulative GPA of 2.0 or higher. If cumulative GPA falls below 2.0 for two consecutive primary terms (Fall/Spring semesters), the student may lose CCPG eligibility.
• Progress standing - Complete more than 50% of coursework with a passing grade. If the cumulative number of units completed is not more than 50% in two consecutive primary terms (Fall/Spring semesters), the student may lose CCPG eligibility.
• Combined standing - Any combination of two consecutive terms where cumulative GPA was below 2.0, and/or cumulative unit completion was not more than 50% may result in the loss of CCPG eligibility.

If a student loses their CCPG eligibility, they are welcome to file an enrollment priority or CCPG appeal in order to present their case for having the CCPG award restored. More information on CCPG eligibility and appeals can be found at https://welcome.solano.edu/fa-home/

**RETURN TO TITLE IV FUNDS POLICY**
In some cases, federal regulations require the financial aid office to calculate the "earned amount" of a student's award and ensure that the "unearned amount" is returned to the agency that oversees federal student aid programs. This process is known as "Return to Title IV Funds" or "R2T4."

The following award types are subject to R2T4 regulations:
· Federal Pell Grant
· Iraq and Afghanistan Service Grant (IASG)
· Federal Supplemental Educational Opportunity Grant (FSEOG)
· Federal Direct Subsidized Loans
· Federal Direct Unsubsidized Loans
Note that Federal Work Study (FWS) funds are not included in this list. Likewise, R2T4 calculations are not performed on state, local, and institutional awards (although each program may have its own rules requiring the return of funds).

**What triggers an R2T4 calculation?**
There are two general situations in which a calculation must be performed:
1. The student notifies the school of their intent to withdraw from all classes or begins the official withdrawal process. This is known as an "official withdrawal."
2. The withdrawal date used will be the date that the student notified the school of their intention to withdraw or began the official withdrawal process.
3. After the payment period is over, the school finds that a student finished the payment period with a collection of "F" and "W" grades. This is known as an "unofficial withdrawal."
4. As Solano Community College is not required to take attendance, we will use the midpoint (50% mark) of the payment period for the withdrawal date.

**An R2T4 calculation is not required when:**
• The student never actually began attendance for the payment period. In this case, all disbursed Title IV funds must be returned to the Title IV programs.

• The student had begun attendance but was not eligible to receive Title IV funds due to an eligibility reason (unsatisfactory academic progress, appeal denials, incomplete verification materials, ineligible program of study, etc. ). In this case, no Title IV funds should have been disbursed, but if any were disbursed, the entire amount must be returned.

**How the R2T4 calculation works**
Students are considered to have earned aid in proportion to the amount of time in the payment period that they remained enrolled in classes. The longer that the student remained in their classes (the later the withdrawal date), the more of their aid will be considered "earned." Once the student has been enrolled for 60% of the payment period, they are considered to have earned 100% of their federal financial aid award for the period.

Note that different R2T4 rules apply to students who are only taking courses that are shorter than the length of the term (e.g. an 8 week course in fall or a 4-week course in summer). Full descriptions of the calculations and their components are available online in Volume 5 of the FSA Handbook for the award year in question. See https://fsapartners.ed.gov/knowledge-center/fsa-handbook.

The calculation ultimately determines the amount of the student return (the amount for which the student is responsible, if any), the institutional return (the amount for which the institution is responsible, if any), and/or a post-withdrawal disbursement (if applicable; see below).
Student returns

If an R2T4 calculation determines that the student must return funds beyond what the institution has returned, the student will be notified (when the calculation is performed) of their obligation to return those funds to the Title IV programs.

SCC will return those funds on behalf of the student if the student pays the full amount to the SCC Cashier Office within 45 days of the date SCC determined that the student had withdrawn. If the student does not pay their portion within that timeframe, the outstanding amount will be referred as an overpayment to the US Department of Education for debt collection.

Note that students in an overpayment status for federal funds will NOT be able to receive any additional financial aiddisbursements at any college or university until repayment has been made in full.

**Institutional returns**
Solano will return this amount to the government and will charge the debt on your MySolano Student account for repayment.
• You may be eligible to continue receiving financial aid disbursements if you owe this portion.
• Owing this debt to the College will block/prevent you from enrolling/registering in future terms, accessing transcripts, and viewing your grades.

**Order of returns**
If the calculation finds that a student has been disbursed "unearned aid," then student and institutional returns must be made (up to the total net amount of the award) in the following order:
1. Unsubsidized Direct Federal Stafford Loan
2. Subsidized Direct Federal Stafford Loan
3. Federal Pell Grants
4. Federal Supplemental Educational Opportunity Grant (FSEOG)

**Post-Withdrawal Disbursements**
If the R2T4 calculation shows that a student received less Federal Student Aid than the "earned amount," SCC will offer them a post-withdrawal disbursement of the earned aid that was not received. The student must respond quickly—within 14 days—if they hope to have a post-withdrawal disbursement of grant funds (Pell or FSEOG). If a student attended classes but was not eligible for any Title IV aid prior to withdrawing, these regulations do not apply.

**Credit balance**
If an R2T4 calculation results in a credit balance on the student's account, the amount will be disbursed as soon as possible and no later than 14 days after the date the calculation was made.

**Timeframes**

• Within 30 days of the determination that a student has withdrawn, an R2T4 calculation must be performed.
• Within 45 days of the date of determination, any unearned funds must be returned to Title IV funds.
• If the student is eligible for a post-withdrawal disbursement, that offer must be made within 30 days of the determination (and the student has at least 14 days to provide their consent to that disbursement).
• Post-withdrawal disbursements of grants must be made within 45 days of the determination that the student has withdrawn and post-withdrawal disbursements of loan funds must be made within 180 days of that determination.

# Transfer

**NON-TRADITIONAL LEARNING**
Solano Community College awards non-traditional credit for CLEP (College Level Examination Program), Credit-by-Examination, USAFI/DANTES, formal military service schools, and military service. The maximum credit for all nontraditional credit accepted by Solano Community College may not exceed twenty-four (24) semester units. Students planning to transfer to a four-year college or university should note that non-traditional credit accepted by Solano Community College may not be acceptable for transfer. Students should check with prospective transfer colleges regarding their policies on non-traditional credit.

**Advanced Standing**
Students may apply for advanced academic standing through waiver of certain courses as identified by academic schools.

To receive course waivers, the student must demonstrate knowledge of the subject to be waived through examination, previous study, or related work experience. Units are not awarded. Students who receive course waivers must complete the minimum number of units for the major and Associate Degree as required by the California Code of Regulations

**Credit For Prior Learning**
Credit for prior learning may be earned for eligible courses approved by the District for students who satisfactorily pass an authorized assessment. Authorized assessments may include the evaluation of approved external standardized examinations, Joint Services Transcripts, student-created portfolios, and credit-by-examination. Go to https://welcome.solano.edu/academic-affairs-6000/ to view Board Policy and Procedure 6041

**Credit-By-Examination**
Credit-by-examination is available for some courses that are not remedial or normally taught at or below the secondary education level. Courses eligible for credit-by-examination have been identified by the appropriate academic school. The amount of credit granted may not exceed the amount listed for the specific course in the college catalog.

To be eligible, the student must
• be enrolled currently at the College in at least one graded course other than those being taken for
• credit-by-examination
• be in good standing (overall 2.0 GPA)
• have successfully completed, with a minimum grade of C, a minimum of 12 units in residence or will have successfully completed, with a minimum grade of C, a minimum of 12 units by the end of the current semester, exclusive of units to be earned by the credit-by-examination
• have all prerequisites met or waived by the School Dean
No examination may be repeated. The maximum number of units that may be earned by credit-by-examination is 15. Students may obtain a copy of the policy and the credit-by-examination petition form online or at an Admissions and Records service counter. The petition must be filed with the Admissions and Records office no later than the fourth week of the semester. If the petition is approved by the School Dean, the student returns the petition to the Admissions and Records office. Eligibility will be checked before you can arrange to test.

**Military Transcript Evaluation**
Solano Community College, under the DoD Voluntary Education Partnership Memorandum of Understanding, recognizes service members' Military Training for College Credit based on American Council on Education recommendations.

Veterans who submit transcripts from either Community College of the Air Force or Joint Services Transcript (Army, Marine Corps, Navy, and Coast Guard) will be granted up to 24.0 units of college elective credit. (**Specialized training may be used to meet degree major requirements by submitting an SCC Substitution Petition. A description of the course/training received is required).

**Military Service**
Solano Community College will grant six (6) elective units for military service if the person has a) spent at least one year in active service, and b) has received an honorable discharge. Active duty personnel should submit a copy of DD295 and Veterans submit DD214 Member 4 or Copy 2 or Copy 7 with a completed Substitution of Degree Requirements to Admissions and Records for evaluation. These units meet the health and physical education requirements for graduation under Solano Community College General Education, Option A.

Military Service credit is given towards California State University General Education, Option C for Area E with the submission of DD214 Member 4 or Copy 2 or Copy 7.

# Transfer

**TRANSFER OF CREDIT FROM OTHER COLLEGES**
Only those courses from regionally accredited colleges may be accepted for transfer to a degree or certificate program. Students planning to complete an A.A./A.S. degree or certificate should submit transcripts from other institutions if the units apply toward the degree or certificate requirements. The applicant is responsible for requesting the transcripts be sent directly to the Admissions and Records office.

**TRANSFER TO FOUR-YEAR COLLEGES & UNIVERSITIES**
Solano Community College has a long history of preparing students for successful transfer to colleges throughout California and the United States. While it is ultimately the student's responsibility to adhere to transfer admissions requirements and application deadlines, Solano Community College counselors can help students keep up-to-date with the complex array of transfer requirements. To ensure transfer admission, particularly into competitive majors, students should see a counselor early in their educational experience in order to develop an education plan that includes transfer prerequisites.

In addition, students are urged to study the catalogs of the transfer institutions and, if possible, to visit campuses. Detailed transfer information is available in the Counseling and Transfer Centers. Information regarding general education requirements for the California State University system and the University of California system are summarized in this catalog, but students are still urged to obtain regular counselor assistance with transfer education planning.

Transfer Programs
Solano Community College works closely with higher education institutions to create a seamless transition from SCC to the higher education university. While Solano students may apply to any university, the college has particular guaranteed transfer admission programs with some universities. To participate in these programs students must meet specific GPA and course requirements often times associated with their major. The University of California offers a Transfer Admission Guarantee (TAG) to all UC campuses with the exception of UC Berkeley, UC Los Angeles and UC San Diego. Requirements for each campus and major vary.

The California State University system offers guaranteed admission to a CSU campus for students who complete an Associate Degree for Transfer (ADT).

California Community Colleges have transfer agreements with many Historically Black Colleges and Universities (HBCUs).

Participating HBCUs guarantee admission to students who have completed the following:
• An Associate Degree Awarded by a California Community College with a minimum cumulative grade point average (GPA) of 2.5 or higher, that meets any one of the following requirements:
• The degree is an Associate in Arts for Transfer (AA-T) degree or an Associate in Science for Transfer (AS-T) degree. These degrees were designed to provide a clear pathway to a California State University major and baccalaureate degree and they represent strong preparation for upper division coursework in a range of majors.
• The degree includes the completion and certification of the lower division Intersegmental General Education Transfer Curriculum (IGETC) used by California Community College students to prepare to transfer to the University of California and California State University systems.
• The degree includes the completion and certification of the lower division California State University General Education Breadth pattern;
(OR)
• A minimum of 30 transferrable semester units with a minimum cumulative grade point average (GPA) of 2.5 or higher.

For additional information about any of these programs, please visit the Transfer Center.

**OTHER TRANSFER AGREEMENTS**
Solano has a variety of transfer agreements with other colleges in state, out of state, public and private. For more information visit, https://welcome.solano.edu/transfer-center-transfer-agreements/

**Concurrent Enrollment**
Concurrent enrollment provides an opportunity for SCC students to take CSU and UC courses for a nominal fee or at no extra charge while enrolled at SCC. Contact a counselor for additional information. For further details, visit www.solano.edu/transfer/.

# Transfer

**CALIFORNIA STATE UNIVERSITY (CSU) TRANSFER ADMISSION REQUIREMENTS**

Lower Division

Students are eligible for admission if they:

• Have a minimum cumulative grade point average of 2.0 in all transferable college units attempted.

• Are in good standing at the last college or university attended, i.e., they are eligible to re-enroll.

• Meet the admission requirements for a first-time freshman or have successfully completed necessary courses to make up the deficiencies they had in high school.

• Meet the eligibility index required of a freshman which requires SAT or ACT test scores. Most CSU campuses do not accept lower division applicants. Students should contact the campus to which they plan to submit an application to determine whether there are limits on admission as a lower division transfer. Students who completed college units before they graduated from high school or during the summer between high school graduation and CSU enrollment are considered first-time freshmen and must meet those admission requirements.

Upper Division

Students are eligible for admission if they:

• Have completed 60 or more transferable semester college units (90 quarter units).

• Have a college grade point average of 2.0 or better (2.4 for non-California residents) in all transferable college units attempted.

• Are in good standing at the last college or university attended, i.e., they are eligible to re-enroll.

• Have completed or will complete prior to transfer at least 30 semester units (45 quarter units) of general education courses with a minimum grade of C. The 30 units must include all of the general education requirements in communication in the English language (English composition, oral communication, and critical thinking) and at least one course of at least 3 semester units (4 quarter units) in transfer level mathematics.

Transfer applicants are required to submit final college transcripts to the CSU prior to attendance in CSU classes. A final review will be done to verify successful completion of the courses. If the student did not complete the courses, the CSU campus may delay or cancel the student's admission or enrollment until the student successfully completes the required courses.

(NOTE: Some CSU campuses will admit transfer students based on courses "in progress," and some will not.

Students should contact the specific campus(es) or obtain their published or electronic materials for specific campus information.)

**UNIVERSITY OF CALIFORNIA (UC) TRANSFER ADMISSION REQUIREMENTS**

Lower Division

Most UCs do not admit lower division transfer students. For information about admissions requirements for lower division transfer students, please visit the admissions website of the campus to which you are interested in applying.

Upper Division

• Complete 60 semester (90 quarter) units of transferable college credit with a grade-point average of at least 2.4 (2.8 for nonresidents) and no more than 14 semester (21 quarter) units may be taken P/NP

• Complete the following course pattern earning a minimum grade of C in each course:

• Two transferable college courses (3 semester or 4-5 quarter units) in English composition;

• One transferable college course (3 semester or 4-5 quarter units each) in mathematical concepts and quantitative reasoning;

• Four transferable college courses (3 semester or 4-5 quarter units each) chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, and the physical and biological sciences

• Transfer students who apply from California community colleges also have the option of filling lower division breadth requirements by completing the intersegmental General Education Transfer Curriculum (IGETC). This program specifies a series of subject areas and types of courses that, if completed before transfer, will satisfy the lower division breadth and general education requirements at any general campus of UC.

**Nonresidents**

The minimum admission requirements for nonresident transfer applicants are very similar to those for residents. Consult with the Admissions and Records Office at one of the University campuses for details. In all cases, however, nonresidents must have a grade point average of 2.8 or higher in all transferable college coursework.

# Transfer

## AP (COLLEGE BOARD ADVANCED PLACEMENT) EXAMINATION CREDIT

| AP EXAMINATION | Score | SCC Course Equivalent | SCC Local GE | SCC/CSU Units Granted | CSU GE | IGETC | UC Units Granted | Limitations of Credit |
|---|---|---|---|---|---|---|---|---|
| LANGUAGE OTHER THAN ENGLISH CONT.: | | | | | | | | |
| Latin: Vergil (Pre 'F12) | 3,4,5 | N/A | D | 3 | C2 (3 units) | 3B & 6A (3 units) | 2.6 | |
| Spanish Language/Culture | 3,4,5 | SPAN 002 | D | 6 | | | 5.3 | |
| Spanish Literature/Culture | 3 | N/A | D | 6 | | | 5.3 | |
| Spanish Literature/Culture | 4,5 | SPAN 004 | D | 6 | | | 5.3 | |
| MUSIC THEORY | 3,4,5 | MUSC 001 | D | 6 | N/A (C1 Prior to F'09) | N/A | 5.3 | |
| PHYSICS: B (pre F'13) | 3,4,5 | PHYS 002, 004 | C | 6 | B1 & B3 (6 units) | 5A & 5C (4 units) | 5.3 | **CSU GE:** 6 units max credit applied to baccalaureate, 4 units max to GE<br><br>**IGETC:** Phys 1 & 2 may apply 4 sem. units to IGETC. Phys C: Elec/Mag and Mech. may only apply 3 units to IGETC – will need to complete at least 4 sem. units to satisfy Area 5A/5C<br><br>**UC:** 5.3 units max combined for all PHYS exams |
| PHYSICS: 1 | 3,4,5 | PHYS 002 | C | 4 | B1 & B3 (4 units) | 5A & 5C (4 units) | 5.3 | |
| PHYSICS: 2 | 3 | N/A | C | 4 | | 5A & 5C (4 units) | 5.3 | |
| PHYSICS: 2 | 4,5 | PHYS 004 | C | 4 | | 5A & 5C (4 units) | 5.3 | |
| PHYSICS: C (Electricity/Magnetism) | 3,4,5 | PHYS 007 | C | 4 | | 5A & 5C (3 units) ◊ | 2.6 | |
| PHYSICS: C (Mechanics) | 3,4,5 | PHYS 006 | C | 4 | | 5A & 5C (3 units) ◊ | 2.6 | |
| PRECALCULUS | 3,4,5 | TBD | B | 3 | B4 (3 units) | TBD | TBD | |
| PSYCHOLOGY | 3,4,5 | PSYC 001 | E | 3 | D (3 units) | 4 (3 units) | 2.6 | |
| STATISTICS | 3,4,5 | MATH 011 | B | 3 | B4 (3 units) | 2 (3 units) | 2.6 | |

**NOTES:**

1. Students may earn associate degree and general education credit for Advanced Placement (AP) Examinations with scores of 3, 4, or 5. Advanced Placement Examinations are noted in the chart below with the specific course credit listed or with the notation of "N/A" where applicable. AP exams not included in the chart may have been exams offered in the past. Consult with a counselor to determine applicability.
2. Students must have the College Board send official AP exam results to the Solano Community College Admissions and Records office for use on the associate degree or general education pattern. Please note: Course credit and units granted by Solano Community College may differ from course credit and units granted by a transfer institution.
3. A student planning to transfer to a four-year college or university must consult with that transfer institution's catalog and admissions department regarding its awarding of Advanced Placement credit. Credit awarded at Solano Community College for the completion of a local AA/AS degree and general education, CSU general education, and/or IGETC (UC) is as noted above. This is not specific to individual colleges and universities. AP exams may not satisfy the requirements for specific majors at four-year colleges. Please consult with a counselor or a university representative on major specific courses and prerequisites.
4. Units awarded for Advanced Placement exams may not be used to meet the residency requirements for the associate degree.

◊ IMPORTANT NOTES ABOUT AP SCIENCES FROM IGETC STANDARDS: AP exams in Biology, Chemistry or Physics 1 and 2 (which replaced Physics B) allow CCC campuses to apply 4 semester or 5 quarter units to IGETC certification. For Environmental Science, Physics C: Mechanics and Physics C: Electricity/Magnetism, 3 semester or 4 quarter units are applied for IGETC certification; therefore, students who complete these exams will be required to complete at least 4 semester or 5 quarter units to satisfy the minimum required units for Area 5.

± Students who take the Calculus BC examination and earn a subscore of 3 or higher on the Calculus AB portion will receive credit for the Calculus AB examination, even if they do not receive a score of 3 or higher on the BC examination.

* Note that AP Environmental Science may count for BIO 012 for SCC purposes, but will not count for CSU GE Area B2 or IGETC GE Area 5B.

If a specific AP exam is not listed, acceptance will default to the CSU standard. Consult with a counselor.

CLEP

## CLEP (COLLEGE LEVEL ENTRANCE PROGRAM) EXAMINATION CREDIT

Solano Community College may award 3 units of college credit for CLEP examination scores of 50 and above (or otherwise as noted) if the examination is compatible with the college's curriculum. Students who have received credit from a CLEP examination should not take the comparable college course as transfer credit will be only be awarded for one. CLEP scores may be used to meet Solano Community College Local General Education and California State University (CSU) General Education Breadth. At this time, CLEP cannot be applied to IGETC/UC transfer. For more information contact the Admissions and Records office and/or meet with a counselor.

| EXAMINATION (Score of 50 unless otherwise noted) | SCC GE Area (3 semester units) | CSU GE Area (3 semester units) | Minimum Semester Credits Earned |
|---|---|---|---|
| American Government | E | D | 3 units |
| American Literature | D | C2 | 3 units |
| Analyzing and Interpreting Literature | D | C2 | 3 units |
| Biology | C | B2 | 3 units |
| Calculus | B | B4 | 3 units |
| Chemistry | C | B1 | 3 units |
| College Algebra | B | B4 | 3 units |
| College Algebra - Trigonometry | B | B4 | 3 units |
| English Literature Prior to F 2011 only | D | C2 | 3 units |
| Financial Accounting | n/a | n/a | 3 units |
| French Level I | n/a | n/a | 6 units |
| French Level II (score 59+) Prior to Fall 2015 | D | C2 | 12 units |
| French Level II (score 59+) | D | C2 | 9 units |
| German Level I | n/a | n/a | 6 units |
| German Level II (score 60+) Prior to Fall 2015 | D | C2 | 12 units |
| German Level II (score 60+) | D | C2 | 9 units |
| History, United States I | E | D and US-1 | 3 units |
| History, United States II | E | D and US-1 | 3 units |
| Human Growth and Development | E | E | 3 units |
| Humanities | D | C2 | 3 units |
| Information Systems and Computer Applications | n/a | n/a | 3 units |
| Introduction to Educational Psychology | n/a | n/a | 3 units |
| Introductory Business Law | n/a | n/a | 3 units |
| Introductory Psychology | E | D | 3 units |
| Introductory Sociology | E | D | 3 units |
| Natural Sciences | C | B1 or B2 | 3 units |
| Pre-Calculus | B | B4 | 3 units |
| Principles of Accounting | n/a | n/a | 3 units |
| Principles of Macroeconomics | E | D | 3 units |
| Principles of Management | n/a | n/a | 3 units |
| Principles of Marketing | n/a | n/a | 3 units |
| Principles of Microeconomics | E | D | 3 units |
| Spanish Level I | n/a | n/a | 6 units |
| Spanish Level II (score 63+) Prior to Fall 2015 | D | C2 | 12 units |
| Spanish Level II (score 63+) | D | C2 | 9 units |
| Spanish with Writing I | n/a | n/a | 6 units |
| Spanish with Writing II (score 63+) | D | C2 | 9 units |
| Trigonometry Prior to Fall 2006 | B | B4 | 3 units |
| Western Civilization I | E | C2 or D | 3 units |
| Western Civilization II | E | D | 3 units |

05/2023

IB (International Baccalaureate)

## IB (INTERNATIONAL BACCALAUREATE) CREDITS

Solano Community College may award college credit for international baccalaureate (IB) course completion with scores of 5, 6, or 7 (unless otherwise noted), if the course work is compatible with the college's curriculum. No credit will be granted for lower level course work completed in the IB program. Students who have earned credit from an IB exam should not take a comparable college course because transfer credit will not be granted for both (meet with a counselor to verify).

### International Baccalaureate (IB) Credit for Solano Community College General Education

| REQUIRED EXAM SCORE *(HIGHER LEVEL EXAMS ONLY)* IB SCORE 5-7 unless otherwise noted | SCC Local GE (3 semester units) | CCC/ CSU Units Granted | CSU GE (3 semester units) | IGETC GE (3 semester units) | UC Units Granted (semester units) |
|---|---|---|---|---|---|
| BIOLOGY | AREA C | 6.0 | AREA B2 | AREA 5B - without lab | 5.3 |
| CHEMISTRY | AREA C | 6.0 | AREA B1 | AREA 5A - without lab | 5.3 |
| ECONOMICS | AREA E | 6.0 | AREA D | AREA 4 | 5.3 |
| GEOGRAPHY | AREA E | 6.0 | AREA D | AREA 4 | 5.3 |
| HISTORY (any region) | AREA D or E | 6.0 | AREA C2 or D | AREA 3B OR 4 | 5.3 |
| LANGUAGE A Literature CSU GE: SCORE 4; IGETC: Score 5-7 | AREA D | 6.0 | AREA C2 | AREA 3B and 6A | 5.3 |
| LANGUAGE A Language and Literature CSU GE: SCORE 4; IGETC: Score 5-7 | AREA D | 6.0 | AREA C2 | AREA 3B and 6A | 5.3 |
| LANGUAGE A1 (any language) CSU GE: SCORE 4; IGETC: Score 5-7 | AREA D | 6.0 | AREA C2 Removed F'13 | AREA 3B | 5.3 |
| LANGUAGE A2 (any language) CSU GE: SCORE 4; IGETC: Score 5-7 | AREA D | 6.0 | AREA C2 Removed F'13 | AREA 3B | 5.3 |
| LANGUAGE B (any language) | AREA D | 6.0 | N/A | AREA 6A | 5.3 |
| MATHEMATICS CSU GE: SCORE 4; IGETC: Score 5-7 | AREA B | 6.0 | AREA B4 | AREA 2A | 5.3 |
| PHYSICS | AREA C | 6.0 | AREA B1 | AREA 5A – without lab | 5.3 |
| PSYCHOLOGY | AREA E | 3.0 | AREA D | AREA 4 | 5.3 |
| THEATRE | AREA D | 6.0 | AREA C1 | AREA 3A | 5.3 |

*** Check with transfer university for course equivalents.**

1) Only higher level tests accepted for credit.
2) IB credit is not granted for English Composition (ENGL 001) or for the Art Exam.
3) If a student passes more than one test in the same language other than English (e.g., two exams in Spanish), only one exam may be applied.
4) Credit is granted only toward the specific area(s) listed in general education. The units may not apply toward certification of the corresponding GE-Breadth area.
5) Students seeking certification in Language A1 and/or A2 prior to transfer must have passed the test before Fall 2013.
6) The units earned from IB credit cannot be used to satisfy the 12-unit requirement or be applied toward financial aid.
7) Please confer with transfer university admissions representatives for application of units upon transfer.

## Course Identification Numbering System (C-ID)

| SCC Dept. | SCC Dept. # | SCC Course Title | C-ID # | C-ID Descriptor Title | Date Approved |
|---|---|---|---|---|---|
| BSOT | 120 | Keyboarding II | BSOT 120 X | Keyboarding II | 03/29/2021 |
| BSOT | 121 | MS Word II | BSOT 121 X | MS Word II | 03/29/2021 |
| BSOT | 122 | MS Excel II | BSOT 122 X | MS Excel II | 03/29/2021 |
| BSOT | 123 | MS Access II | BSOT 123 X | MS Access II | 04/14/2021 |
| BSOT | 124 | MS PowerPoint II | BSOT 124 X | MS PowerPoint II | 04/14/2021 |
| BSOT | 125 | Adobe Acrobat | BSOT 125 X | Adobe Acrobat | 04/14/2021 |
| BSOT | 130 | Keyboarding III | BSOT 130 X | Keyboarding III | 04/14/2021 |
| BSOT | 131 | MS Word III | BSOT 131 X | MS Word III | 04/14/2021 |
| BSOT | 132 | MS Excel III | BSOT 132 X | MS Excel III | 04/14/2021 |
| BSOT | 133 | MS Access III | BSOT 133 X | MS Access III | 04/14/2021 |
| **BUSINESS** | | | | | |
| BUS | 005 | Introduction to Business | BUS 110 | Introduction to Business | 11/17/2017 |
| BUS | 018 | Legal Environment of Business | BUS 120 | Legal Environment of Business | 01/26/2015 |
| **CHILD DEVELOPMENT & FAMILY STUDIES** | | | | | |
| CDFS | 038 | Child Growth and Development | CDEV 100 | Child Growth and Development | 07/22/2013 |
| CDFS | 050 | Child Family and Community | CDEV 110 | Child Family and Community | 02/19/2014 |
| CDFS | 053 | Teaching in a Diverse Society | ECE 230 | Teaching in a Diverse Society | 06/09/2014 |
| CDFS | 054 | Child Health, Safety and Nutrition | ECE 220 | Health, Safety and Nutrition | 03/13/2014 |
| CDFS | 062 | Introduction to Early Childhood Education: Principles and Practices | ECE 120 | Principles & Practices of Teaching Young Children | 06/17/2013 |
| CDFS | 063 | Introduction to Curriculum | ECE 130 | Introduction to Curriculum | 07/22/2013 |
| CDFS | 064 | Observation and Assessment | ECE 200 | Observation and Assessment | 03/13/2014 |
| CDFS | 065 | Early Childhood Education Practicum I | ECE 210 | Practicum in Early Childhood Education | 01/15/2014 |
| **CHEMISTRY** | | | | | |
| CHEM | 001 | General Chemistry | CHEM 110 | General Chemistry for Science Majors I, with Lab | 11/27/2016 |
| CHEM | 003 | Organic Chemistry I | CHEM 150 | Organic Chemistry for Science Majors I, with Lab | 04/02/2016 |
| CHEM | 010 | Intermediate Chemistry | CHEM 101 | Introduction to Chemistry | 10/17/2016 |
| CHEM | 011 | Basic Organic Chemistry & BioChemistry | CHEM 102 | Introduction to Organic and Biochemistry | 10/17/2016 |
| CHEM | 001 + 002 | General Chemistry + General Chemistry | CHEM 120 S | General Chemistry for Science Majors Sequence A | 09/27/2017 |
| CHEM | 004 + 003 | Organic Chemistry II + Organic Chemistry I | CHEM 160 S | Organic Chemistry for Science Majors Sequence A, with Lab | 04/02/2016 |
| **COMPUTER - INFORMATION SCIENCE** | | | | | |
| CIS | 020 | Assembly Programming | COMP 142 | Computer Architecture and Organization | 06/11/2018 |
| CIS | 021 | Discrete Structures for Computer Science | COMP 152 | Discrete Structures | 02/15/2015 |
| CIS | 022 | Introduction to Programming | COMP 122 | Programming Concepts and Methodology I | 03/15/2015 |
| CIS | 023 | Data Structures & Algorithms | COMP 132 | Programming Concepts and Methodology II | 09/19/2018 |
| **CRIMINAL JUSTICE** | | | | | |
| CJ | 001 | Introduction to Criminal Justice | AJ 110 | Introduction to Criminal Justice | 04/03/2014 |
| CJ | 002 | Concepts of Criminal Law | AJ 120 | Concepts of Criminal Law | 04/13/2014 |
| CJ | 011 | Community Relations | AJ 160 | Community and the Justice System | 11/12/2014 |
| CJ | 051 | Criminal Investigation | AJ 140 | Criminal Investigation | 04/03/2014 |
| CJ | 053 | Legal Aspects of Evidence | AJ 124 | Legal Aspects of Evidence | 04/26/2014 |
| CJ | 056 | Juvenile Procedures | AJ 220 | Juvenile Procedures | 04/13/2014 |
| **COMMUNICATIONS** | | | | | |
| COMM | 001 | Introduction to Public Speaking | COMM 110 | Public Speaking | 05/04/2015 |
| COMM | 002 | Fundamentals of Persuasive Speaking | COMM 190 | Introduction to Persuasion | 01/26/2014 |
| COMM | 006 | Argumentation and Debate | COMM 120 | Argumentation or Argumentation and Debate | 03/24/2017 |
| COMM | 008 | Group Communication | COMM 140 | Small Group Communication | 03/24/2017 |

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## Course Identification Numbering System (C-ID)

| SCC Dept. | SCC Dept. # | SCC Course Title | C-ID # | C-ID Descriptor Title | Date Approved |
|---|---|---|---|---|---|
| COMM | 012 | Intercultural Communication | COMM 150 | Intercultural Communication | 01/06/2015 |
| COMM | 015 | Oral Interpretation of Literature | COMM 170 | Oral Interpretation of Literature | 11/18/2014 |
| COMM | 050 | Forensics/Speech Workshop | COMM 160 B | Forensics (Speech & Debate) | 11/25/2014 |
| COMM | 050 + 051 | Forensics + Forensics Theory | COMM 160 B | Forensics (Speech & Debate) | 05/15/2023 |
| **DIGITAL MEDIA ARTS** | | | | | |
| DMA | 009 | Introduction to Digital Design | ARTS 250 | Introduction to Digital Art | 05/23/2020 |
| **ECONOMICS** | | | | | |
| ECON | 001 | Principles of Economics (Macroeconomics) | ECON 202 | Principles of Macroeconomics | 08/28/2014 |
| ECON | 002 | Principles of Economics (Microeconomics) | ECON 201 | Principles of Microeconomics | 08/28/2014 |
| **EDUCATION** | | | | | |
| EDUC + OCED | 001 + 090 | Elementary Teacher Education + Elementary Teacher Education | EDUC 200 | Introduction to Elementary Classroom Teaching | 01/07/2020 |
| **ENGLISH** | | | | | |
| ENGL | 001 | College Composition | ENGL 100 | College Composition | 06/19/2015 |
| ENGL | 001E | College Composition for Non-native English Speakers | ENGL 100 | College Composition | 06/06/2023 |
| ENGL | 001X | College Composition with Support | ENGL 100 | College Composition | 11/07/2022 |
| ENGL | 002 | Critical Thinking and Writing About Literature | ENGL 110 | Argumentative Writing and Critical Thinking Through Literature | 11/21/2013 |
| ENGL | 002 | Critical Thinking and Writing About Literature | ENGL 120 | Introduction to Literature | 05/13/2019 |
| ENGL | 004 | Critical Thinking and Composition: Language in Context | ENGL 105 | Argumentative Writing and Critical Thinking | 06/19/2015 |
| ENGL | 006 | Creative Writing | ENGL 200 | Introduction to Creative Writing | 02/17/2014 |
| ENGL | 030 | Survey of American Literature I | ENGL 130 | Survey of American Literature 1 | 12/29/2013 |
| ENGL | 031 | Survey of American Literature II | ENGL 135 | Survey of American Literature 2 | 12/30/2013 |
| ENGL | 040 | Survey of English Literature I | ENGL 160 | Survey of British Literature 1 | 11/21/2013 |
| ENGL | 041 | Survey of English Literature II | ENGL 165 | Survey of British Literature 2 | 11/21/2013 |
| **ENGINEERING** | | | | | |
| ENGR | 001 | Introduction to Engineering | ENGR 110 | Introduction to Engineering | 10/16/2019 |
| ENGR | 017 | Introduction to Electrical Engineering | ENGR 260 | Circuit Analysis | 09/22/2021 |
| ENGR | 017 | Introduction to Electrical Engineering | ENGR 260 L | Circuit Analysis Lab | 09/22/2021 |
| ENGR | 026 | Mathematics & Engineering Problem Solving Using Matlab | ENGR 220 | Programming and Problem-Solving in MATLAB | 12/21/2018 |
| ENGR | 030 | Engineering Mechanics: Statics | ENGR 130 | Statics | 11/13/2018 |
| ENGR | 045 | Properties of Materials | ENGR 140 B | Materials Science and Engineering | 01/18/2019 |
| **GEOGRAPHY** | | | | | |
| GEOG | 001 | Physical Geography | GEOG 110 | Introduction to Physical Geography | 03/17/2014 |
| GEOG | 001L | Physical Geography Laboratory | GEOG 111 | Physical Geography, Laboratory | 06/20/2015 |
| GEOG | 002 | Cultural Geography | GEOG 120 | Introduction to Human Geography | 03/17/2014 |
| GEOG | 004 | World Geography | GEOG 125 | World Regional Geography | 03/17/2014 |
| GEOG | 006 | California Geography | GEOG 140 | California Geography | 03/17/2014 |
| GEOG | 010 | Introduction to Geographic Information Systems | GEOG 155 | Introduction to Geographic Information Systems and Techniques, with Lab | 07/23/2014 |
| **GEOLOGY** | | | | | |
| GEOL | 001 | Physical Geology | GEOL 100 | Physical Geology | 02/12/2014 |
| GEOL | 002 | Geology Laboratory | GEOL 100 L | Physical Geology Laboratory | 12/15/2014 |
| GEOL | 005 | Geology of California | GEOL 200 | Geology of California | 03/27/2017 |
| GEOL | 006 | Earth Science | GEOL 120 | Earth Science | 09/25/2019 |
| GEOL | 006L + 006 | Earth Science + Earth Science | GEOL 120 L | Earth Science Laboratory | 09/25/2019 |
| GEOL | 010 | Introduction to Geographic Information Systems | GEOG 155 | Introduction to Geographic Information Systems and Techniques, with Lab | 04/25/2014 |

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## Course Identification Numbering System (C-ID)

| SCC Dept. | SCC Dept. # | SCC Course Title | C-ID # | C-ID Descriptor Title | Date Approved |
|---|---|---|---|---|---|
| **HEALTH EDUCATION** | | | | | |
| HED | 001 | Introduction to Public Health | PHS 101 | Introduction to Public Health | 12/07/2022 |
| HED | 002 | Health Education | PHS 100 | Personal Health and Wellness | 12/07/2022 |
| **HISTORY** | | | | | |
| HIST | 002 | World History To 1500 | HIST 150 | World History to 1500 | 03/24/2015 |
| HIST | 003 | World History Since 1500 | HIST 160 | World History since 1500 | 03/10/2015 |
| HIST | 004 | History of Western Civilizations to 1500 | HIST 170 | Western Civilization I | 05/16/2014 |
| HIST | 005 | History of Western Civilization Since 1500 | HIST 180 | Western Civilization II | 06/11/2014 |
| HIST | 017 | History of the United States to 1877 | HIST 130 | United States History to 1877 | 02/14/2015 |
| HIST | 018 | History of the United States from 1865 | HIST 140 | United States History from 1865 | 01/17/2015 |
| **HORTICULTURE** | | | | | |
| HORT | 006 | Identification and Ecology of Landscape Plant Materials | AG-EH 108/108L | Plant Materials and Usage I | 12/28/2022 |
| HORT | 050 | Introduction to Horticulture | AG-PS 106/106L | Introduction to Plant Science (with Laboratory) | 12/28/2022 |
| HORT | 055 | Soils and Fertilizers | AG-PS 128/128L | Introduction to Soil Science | 12/28/2022 |
| HORT | 101 | Plant Propagation and Production | AG-EH 116 L | Plant Propagation / Production | 12/28/2022 |
| **JOURNALISM** | | | | | |
| JOUR | 001 | Newswriting and Reporting | JOUR 110 | Introduction to Reporting and Newswriting | 06/17/2013 |
| JOUR | 011 | Introduction to Mass Communication | JOUR 100 | Introduction to Mass Communications | 08/09/2013 |
| JOUR | 060 | Publications Laboratory | JOUR 130 | Lower Division Student Media Practicum I | 08/09/2013 |
| JOUR | 061 | Publications Laboratory II | JOUR 131 | Lower Division Student Media Practicum II | 06/14/2013 |
| **KINESIOLOGY** | | | | | |
| KINE | 040A | Introduction to Kinesiology | KIN 100 | Introduction to Kinesiology | 08/31/2016 |
| KINE | 045C | Advanced First Aid and Emergency Care | KIN 101 | First Aid, CPR and AED | 01/23/2014 |
| **MATHEMATICS** | | | | | |
| MATH | 002 | College Algebra for Calculus | MATH 151 | College Algebra for STEM | 03/27/2020 |
| MATH | 004 | Precalculus and Trigonometry | MATH 955 | Precalculus & Trigonometry | 09/27/2021 |
| MATH | 011 | Elementary Statistics | MATH 110 | Introduction to Statistics | 05/31/2015 |
| MATH | 020 | Analytic Geometry and Calculus I | MATH 210 | Single Variable Calculus I Early Transcendentals | 07/05/2016 |
| MATH | 021 | Analytic Geometry and Calculus II | MATH 220 | Single Variable Calculus II Early Transcendentals | 01/29/2015 |
| MATH | 022 | Analytic Geometry and Calculus III | MATH 230 | Multivariable Calculus | 04/26/2017 |
| MATH | 023 | Differential Equations | MATH 240 | Ordinary Differential Equations | 12/28/2014 |
| MATH | 030 | Business Calculus I | MATH 140 | Business Calculus | 09/27/2021 |
| MATH | 040 | Introduction to Linear Algebra | MATH 250 | Introduction to Linear Algebra | 12/06/2014 |
| MATH | 055 | Mathematical Concepts for Elementary School Teachers - Number Systems | MATH 120 | Mathematical Concepts for Elementary School Teachers - Number Systems | 04/28/2019 |
| **MUSIC** | | | | | |
| MUSC | 001 | Beginning Theory I | MUS 120 | Music Theory I | 12/22/2014 |
| MUSC | 001 | Beginning Theory I | MUS 125 | Musicianship I | 07/10/2015 |
| MUSC | 002 | Beginning Theory II | MUS 130 | Music Theory II | 12/22/2014 |
| MUSC | 002 | Beginning Theory II | MUS 135 | Musicianship II | 07/10/2015 |
| MUSC | 003 | Advanced Theory I | MUS 140 | Music Theory III | 12/22/2014 |
| MUSC | 003 | Advanced Theory I | MUS 145 | Musicianship III | 06/08/2015 |
| MUSC | 004 | Advanced Theory II | MUS 150 | Music Theory IV | 12/22/2014 |
| MUSC | 004 | Advanced Theory II | MUS 155 | Musicianship IV | 07/10/2015 |
| MUSC | 005 | Music Fundamentals | MUS 110 | Music Fundamentals | 01/31/2015 |
| MUSC | 008 | Music Appreciation | MUS 100 | Music Appreciation | 07/11/2018 |
| MUSC | 009 | Wind Ensemble | MUS 180 | Major Ensemble | 01/31/2015 |
| MUSC | 010 | Concert Band | MUS 180 | Major Ensemble | 01/31/2015 |
| MUSC | 011 | Symphonic Band | MUS 180 | Major Ensemble | 06/20/2017 |

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## Course Identification Numbering System (C-ID)

| SCC Dept. | SCC Dept. # | SCC Course Title | C-ID # | C-ID Descriptor Title | Date Approved |
|---|---|---|---|---|---|
| MUSC | 014 | Jazz Ensemble | MUS 180 | Major Ensemble | 01/31/2015 |
| MUSC | 015 | Stage Band | MUS 180 | Major Ensemble | 01/31/2015 |
| MUSC | 016 | Symphony Orchestra | MUS 180 | Major Ensemble | 01/31/2015 |
| MUSC | 017 | Chamber Orchestra | MUS 180 | Major Ensemble | 01/31/2015 |
| MUSC | 020 | Choir | MUS 180 | Major Ensemble | 01/31/2015 |
| MUSC | 021 | Chorus | MUS 180 | Major Ensemble | 01/30/2016 |
| MUSC | 024 | Master Works Chorale | MUS 180 | Major Ensemble | 03/02/2015 |
| MUSC | 025 | Chamber Choir | MUS 180 | Major Ensemble | 03/02/2015 |
| MUSC | 026 | Vocal Jazz Ensemble | MUS 180 | Major Ensemble | 03/25/2015 |
| MUSC | 040A | Applied Music I | MUS 160 | Applied Music | 11/08/2015 |
| MUSC | 040B | Applied Music II | MUS 160 | Applied Music | 11/08/2015 |
| MUSC | 040C | Applied Music III | MUS 160 | Applied Music | 11/08/2015 |
| MUSC | 040D | Applied Music IV | MUS 160 | Applied Music | 04/24/2016 |
| **NUTRITION** | | | | | |
| NUTR | 010 | Nutrition | NUTR 110 | Introduction to Nutrition Science | 06/19/2015 |
| **PHILOSOPHY** | | | | | |
| PHIL | 003 | Introduction to Philosophy | PHIL 100 | Introduction to Philosophy | 09/12/2019 |
| **PHOTOGRAPHY** | | | | | |
| PHOT | 056 | Photojournalism & Documentary Photography | JOUR 160 | Introduction to Photojournalism | 03/10/2014 |
| **PHYSICAL SCIENCE** | | | | | |
| PHSC | 013 | Weather and Climate | GEOG 130 | Introduction to Weather and Climate | 10/08/2020 |
| PHSC | 013 + 014 | Weather and Climate + Atmospheric Science Laboratory | GEOG 130 | Introduction to Weather and Climate | 09/10/2020 |
| **PHYSICS** | | | | | |
| PHYS | 002 | General Physics (Non-calculus) | PHYS 105 | Algebra/Trigonometry-Based Physics A | 01/22/2014 |
| PHYS | 004 | General Physics (Non-calculus) | PHYS 110 | Algebra/Trigonometry-Based Physics B | 01/22/2014 |
| PHYS | 002 + 004 | General Physics (Non-Calculus) + General Physics (Non-Calculus) | PHYS 100 S | Algebra/Trigonometry-Based Physics: AB | 01/19/2023 |
| PHYS | 006 | Physics for Science and Engineerig | PHYS 205 | Calculus-Based Physics for Scientists and Engineers: A | 01/22/2014 |
| PHYS | 007 | Physics for Science and Engineering | PHYS 210 | Calculus-Based Physics for Scientists and Engineers: B | 01/22/2014 |
| PHYS | 008 | Physics for Science and Engineering | PHYS 215 | Calculus-Based Physics for Scientists and Engineers: C | 01/22/2014 |
| **POLITICAL SCIENCE** | | | | | |
| PLSC | 001 | Introduction to American Government and Politics | POLS 110 | Introduction to American Government and Politics | 02/06/2015 |
| PLSC | 002 | Introduction to Comparative Government | POLS 130 | Introduction to Comparative Government and Politics | 01/26/2015 |
| PLSC | 003 | Introduction to International Politics | POLS 140 | Introduction to International Relations | 01/29/2015 |
| PLSC | 004 | Introduction to Political Science | POLS 150 | Introduction to Political Science | 01/26/2015 |
| PLSC | 006 | Introduction to Political Philosophy | POLS 120 | Introduction to Political Theory and Thought | 01/26/2015 |
| PLSC | 007 | International Relations | POLS 140 | Introduction to International Relations | 09/18/2019 |
| **PSYCHOLOGY** | | | | | |
| PSYC | 001 | Introduction to Psychology | PSY 110 | Introductory Psychology | 01/26/2014 |
| PSYC | 002 | Biological Psychology | PSY 150 | Introduction to Biological Psychology | 11/28/2014 |
| PSYC | 004 | Research Methods in Behavioral Science | PSY 200 | Introduction to Research Methods in Psychology | 11/26/2013 |
| PSYC | 005 | Abnormal Psychology | PSY 120 | Introduction to Abnormal Psychology | 03/28/2019 |
| PSYC | 006 | Developmental Psychology | PSY 180 | Introduction to Lifespan Psychology | 03/29/2019 |
| PSYC | 012 | Introduction to Gender | SJS 120 | Introduction to Women's Studies | 09/27/2019 |
| PSYC | 012 | Introduction to Gender | SOCI 140 | Introduction to Gender | 09/30/2019 |

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## Course Identification Numbering System (C-ID)

| SCC Dept. | SCC Dept. # | SCC Course Title | C-ID # | C-ID Descriptor Title | Date Approved |
|---|---|---|---|---|---|
| PSYC | 030 | Introduction to Social Psychology | PSY 170 | Introduction to Social Psychology | 08/17/2018 |
| **SOCIAL JUSTICE STUDIES** | | | | | |
| SJS | 001 | Introduction to Social Justice Studies | SJS 110 | Introduction to Social Justice | 08/15/2018 |
| SJS | 002 | Introduction to Race and Ethnicity | SOCI 150 | Introduction to Race and Ethnicity | 05/04/2018 |
| **SOCIOLOGY** | | | | | |
| SOC | 001 | Introduction to Sociology | SOCI 110 | Introduction to Sociology | 12/26/2014 |
| SOC | 002 | Social Issues & Problems | SOCI 115 | Social Problems | 07/25/2018 |
| SOC | 040 | Sociology of Family | SOCI 130 | Introduction to Marriage and Family | 06/30/2019 |
| **SPANISH** | | | | | |
| SPAN | 001 | First Semester Spanish | SPAN 100 | Elementary Spanish I | 01/16/2015 |
| SPAN | 002 | Second Semester Spanish | SPAN 110 | Elementary Spanish II | 01/20/2015 |
| SPAN | 003 | Third Semester Spanish | SPAN 200 | Intermediate Spanish I | 06/23/2015 |
| SPAN | 004 | Fourth Semester Spanish | SPAN 210 | Intermediate Spanish II | 06/23/2015 |
| SPAN | 001S | Spanish for Spanish Speakers 1 | SPAN 220 | Spanish for Heritage Speakers I | 01/20/2015 |
| SPAN | 002S | Spanish for Spanish Speakers 2 | SPAN 230 | Spanish for Heritage Speakers II | 01/20/2015 |
| **THEATRE ARTS** | | | | | |
| THEA | 001 | Acting 1 | THTR 151 | Acting I | 11/11/2014 |
| THEA | 002 | Acting 2 | THTR 152 | Acting II | 10/09/2014 |
| THEA | 003 | Stagecraft | THTR 171 | Stagecraft | 08/14/2014 |
| THEA | 006 | Introduction to Theatre | THTR 111 | Introduction to Theatre | 10/09/2014 |
| THEA | 008 | Stage Make-Up | THTR 175 | Introduction to Stage Makeup or Stage Makeup | 10/09/2014 |
| THEA | 009 | Script Analysis | THTR 114 | Script Analysis | 06/04/2014 |
| THEA | 020 | Introduction to Stage Lighting | THTR 173 | Introduction to Stage Lighting or Lighting Design Fundamentals | 11/11/2014 |
| THEA | 021 | Introduction to Theatre Design | THTR 172 | Introduction to Design or Introduction to Theater Design | 10/09/2014 |
| THEA | 027 | Technical Theatre in Production Show Run Crew | THTR 192 | Technical Theatre in Production | 10/10/2019 |
| THEA | 024A | Rehearsal and Performance in Production - Comedy | THTR 191 | Rehearsal and Performance in Production | 12/15/2014 |
| THEA | 024B | Rehearsal and Performance in Production - Drama | THTR 191 | Rehearsal and Performance in Production | 12/15/2014 |
| THEA | 024C | Rehearsal and Performance in Production - Classical | THTR 191 | Rehearsal and Performance in Production | 12/15/2014 |
| THEA | 024D | Rehearsal and Performance in Production - Musical | THTR 191 | Rehearsal and Performance in Production | 12/15/2014 |
| THEA | 027A | Technical Theatre in Production Show Run Crew-Comedy | THTR 192 | Technical Theatre in Production | 10/22/2019 |
| THEA | 027B | Technical Theatre in Production Show Run Crew-Drama | THTR 192 | Technical Theatre in Production | 12/31/2019 |
| THEA | 027C | Technical Theatre in Production Show Run Crew-Classical | THTR 192 | Technical Theatre in Production | 10/10/2019 |
| THEA | 027D | Technical Theatre in Production Show Run Crew-Musical | THTR 192 | Technical Theatre in Production | 10/22/2019 |
| THEA | 032A | Fundamentals of Costume Design | THTR 174 | Introduction to Stage Costume or Fundamentals of Costume Design | 11/26/2014 |
| THEA | 032C | Fundamentals of Costume Design - Classical | THTR 174 | Introduction to Stage Costume or Fundamentals of Costume Design | 12/11/2014 |
| THEA | 032D | Fundamentals of Costume Design - Musical | THTR 174 | Introduction to Stage Costume or Fundamentals of Costume Design | 07/15/2016 |
| THEA | 047A | Technical Theatre in Production-Comedy | THTR 192 | Technical Theatre in Production | 11/26/2014 |
| THEA | 047B | Technical Theatre in Production-Drama | THTR 192 | Technical Theatre in Production | 11/26/2014 |
| THEA | 047C | Technical Theatre in Production - Classical | THTR 192 | Technical Theatre in Production | 11/26/2014 |
| THEA | 047D | Technical Theatre in Production - Musical | THTR 192 | Technical Theatre in Production | 11/26/2014 |

NOTE: This list will change periodically. Consult a counselor or visit http://www.c-id.net for the most current list of courses with C-ID agreement.

# *Solano Community College General Education 2023-2024 (Local/Non-Transfer)*

| Associate Degree Requirements | Units | C | IP | P |
|---|---|---|---|---|
| Major Requirements (See http://www.solano.edu/degrees/) | | | | |
| 18 General Education Units (at least 3 units from each area) + Area G (Local District Requirement) | | | | |
| Electives as needed to reach 60 units (any course 001-199)<br>Exception: One English course one level below ENGL 001 and one elementary algebra course may be used as elective units | | | | |
| 2.0 overall grade point average at time of graduation | | | | |
| A minimum total of 60 degree-applicable units | | | | |
| 12 units at Solano Community College with a minimum grade of C | | | | |

**Note:**

- Courses may be used to fulfill both general education and major requirements
- Courses may be used in only one SCC GE area

| AREA A – English Composition | C | IP | P |
|---|---|---|---|
| • **Complete a minimum of 3 semester units**<br>**(must be completed with a minimum grade of C or a P if course is taken on a Pass/No Pass basis)**<br>**ENGL** 001**,** 001E, 001X<br>*Course from another college*_____ *CPL/Outside Exam*_____ | | | |

| AREA B – Rationality | | C | IP | P |
|---|---|---|---|---|
| • **Complete a) OR b) – see below for requirements (minimum 3 semester units)** | | | | |
| **a)** Earn a minimum grade of C or P if taken on a P/NP basis, in one of the Mathematics courses listed<br>**OR**<br>**b)** Earn a minimum grade of C- in two semesters of high school intermediate algebra (i.e. Algebra 2, Integrated Math III) or higher math. An official high school transcript must be on file with SCC Admissions and Records<br>***AND***<br>Earn a minimum grade of C or P if taken on a P/NP basis in one of the Communication/Critical Thinking courses listed | | | | |
| Mathematics | **BUS** 020 **MATH** 002, 004, 011, 012, 020, 030, 051, 055, 104, 112<br>*Course from another college*_____ *CPL/Outside Exam*_____ | | | |
| Communication/ Critical Thinking | **BUS** 092<br>**COMM** 001, 002, 006, 010, 060<br>**PHIL** 001, 005<br>**CIS** 001, 050<br>**ENGL** 002, 004<br>*Course from another college*_____ *CPL/Outside Exam*_____ | | | |

| AREA C - Natural Sciences | C | IP | P |
|---|---|---|---|
| • **Complete a minimum of 3 semester units**<br>**ANTH** 001<br>**ASTR** 010, 030, 040, 045<br>**BIO** 004, 012, 015, 016, 018, 019, 020, 025<br>**BIOT** 001, 010<br>**CHEM** 001, 010, 012, 030, 160<br>**GEOG** 001, 002, 004, 006, 010<br>**GEOL** 001, 005, 006, 010<br>**HORT** 050<br>**NUTR** 010<br>**PHSC** 012, 013, 015, 016<br>**PHYS** 002, 006, 010<br>*Course from another college*_____ *CPL/Outside Exam*_____ | | | |

# SCC General Education

## AREA D – Arts and Humanities

| • Complete a minimum of 3 semester units | C | IP | P |
|---|---|---|---|

**ART** 030B, 030C
**ARTH** 001, 011, 012, 021, 025, 031, 035
**ASL** 001, 005
**CINA** 010, 011
**COMM** 015 **DANC** 004, 012A (1 unit)
**ENGL** 002, 004, 006, 007, 018, 021, 023, 024, 030, 031, 033, 036, 040, 041, 044, 058
**ENGR** 003
**ETHN** 033, 035, 036, 045
**FREN** 001, 002, 003, 004, 011, 031, 032
**HIST** 002, 003, 004, 005
**HUMN** 001, 002, 003
**MUSC** 005, 007, 008, 009, 010, 011, 013, 014, 015, 017, 020, 021, 024, 025, 026, 045
**PHIL** 003, 004, 005, 006
**PHOT** 031, 035
**SPAN** 001, 002, 003, 004, 011
**THEA** 001, 002, 006, 009, 010, 011, 013, 015

*Course from another college*_____ *CPL/Outside Exam*_____

## AREA E – Social and Behavioral Studies

| • Complete a minimum of 3 semester units | C | IP | P |
|---|---|---|---|

**ANTH** 002, 006, 007, 024
**CDFS** 038, 040, 050, 053, 054, 070
**CJ** 001 **COMM** 012
**COUN** 005, 015, 023, 058, 098
**ECON** 001, 002
**ETHN** 001, 024, 028, 029, 031
**GEOG** 002, 004, 006
**HED** 001
**HIST** 010, 017, 018, 028, 029, 031, 037
**HSW** 001
**JOUR** 011 **NUTR** 054
**PLSC** 001, 002, 003, 004, 005, 006, 007, 016, 019
**PSYC** 001, 002, 004, 005, 006, 007, 012, 020, 030, 034
**SJS** 001, 002, 030
**SOC** 001, 002, 023, 040, 045, 075
**TV** 050

*Course from another college*_____ *CPL/Outside Exam*_____

## AREA F – Cross Cultural Studies

| • Complete a minimum of 3 semester units | C | IP | P |
|---|---|---|---|

**ANTH** 002, 006
**ARTH** 035
**CDFS** 053
**CINA** 011
**COMM** 012
**COUN** 015
**ENGL** 036
**ETHN** 001, 035, 036
**HIST** 037
**HSW** 082
**HUMN** 003
**MUSC** 013
**PLSC** 005
**PSYC** 007
**SJS** 002
**THEA** 013

*Course from another college*_____ *CPL/Outside Exam*_____

## Local District Requirement – Health and Kinesiology

| • Complete A, B, or C: | C | IP | P |
|---|---|---|---|

Options

A. Two courses from the following:
**KINE** Activity (*A) **SPMD** 071
**DANC** Activity (*A) **ATHL** 050A
**ATHL** Activity (*A) **ATHL** 050B

B. One course from the following
**HED** 002, 003
**KINE** 040A, 041A, 042A, 045C, 050A
**SPMD** 054, 055A, 055B

C. **DD214** (military experience)

*Course from another college*_____ *CPL/Outside Exam*_____

**Note**: *A within General Education area of course description in the catalog indicates activity

# Intersegmental General Education Transfer Curriculum - IGETC

| Associate Degree Requirements | Units | C | IP | P |
|---|---|---|---|---|
| Major Requirements (See http://www.solano.edu/degrees/ for AA/AS and www.assist.org for transfer) | | | | |
| IGETC Requirements<br>(All courses must be completed with a minimum grade of C and must be IGETC approved at time of completion) | | | | |
| Electives as needed to reach 60 units (001-049 UC*; 001-099 CSU) *some 001-049 courses may not transfer to UC. Please check assist.org or meet with a Solano counselor for clarification. | | | | |
| 2.0 overall grade point average at time of graduation | | | | |
| A minimum total of 60 degree-applicable units | | | | |
| 12 units at Solano Community College with a minimum grade of C | | | | |

IGETC is a series of courses that allows community college transfer students to fulfill lower-division general education requirements either at the UC or the CSU system. The IGETC pattern is most useful for students who want to keep their options open before making a final decision about transferring to a particular UC or CSU campus. Completion of IGETC does not guarantee admission, nor is it generally required for admission. IGETC is not appropriate for some majors.

| AREA 1 – English Composition | | | | |
|---|---|---|---|---|
| • **CSU – Complete one course from each 1A, 1B, and 1C (minimum 3 units)**<br>• **UC – Complete one course from 1A and 1B (minimum 3 units each)** | | C | IP | P |
| 1A | **English Composition: ENGL** 001, 001E, 001X<br>*Course from another college_____ CPL/Outside Exam_____* | | | |
| 1B | **Critical Thinking: ENGL** 002, 004<br>*Course from another college_____ CPL/Outside Exam_____* | | | |
| 1C<br>(CSU Only) | **Oral Communication: COMM** 001, 002, 006<br>*Course from another college_____ CPL/Outside Exam_____* | | | |
| **AREA 2 – Mathematical Concepts and Quantitative Reasoning** | | | | |
| • **Complete 1 course (minimum 3 units)** | | C | IP | P |
| 2 | **CIS** 021<br>**MATH** 002+, 004+, 011, 012, 020+, 021+, 022+, 023, 030+, 031+, 040<br>*Course from another college_____ CPL/Outside Exam_____* | | | |
| **AREA 3 – Arts and Humanities** | | | | |
| • **Complete 3 courses (minimum 9 units)**<br>• **Minimum of 1 course from each 3A and 3B** | | C | IP | P |
| 3A<br>Arts | **ART** 030B, 030C<br>**ARTH** 001, 011, 012, 021, 025, 031, 035*<br>**CINA** 010, 011<br>**DANC** 004<br>**ETHN** 035*, 045*<br>**MUSC** 005+, 007, 008, 013, 045<br>**PHOT** 035<br>**THEA** 006, 009, 010, 011, 013<br>*Course from another college_____ CPL/Outside Exam_____* | | | |
| 3B<br>Humanities | **ASL** 005<br>**DANC** 004<br>**ENGL** 018, 021, 023, 024, 030, 031, 033, 036, 040, 041, 044<br>**ENGR** 003<br>**ETHN** 028*, 029*, 031*, 033, 036<br>**FREN** 002, 003, 004, 011<br>**HIST** 002*, 003*, 004*, 005*, 010*, 017*, 018*, 028*, 029*, 031*, 037*<br>**HUMN** 001, 002, 003<br>**PHIL** 003, 004, 006*<br>**PLSC** 006*<br>**SPAN** 002+, 003, 004, 011<br>*Course from another college_____ CPL/Outside Exam_____* | | | |

# Intersegmental General Education Transfer Curriculum - IGETC

| AREA 4 – Social and Behavioral Sciences | | | | |
|---|---|---|---|---|
| • **Complete 2 courses (minimum 6 units)** | | C | IP | P |
| 4 | **ANTH** 002, 006, 007, 024<br>**CDFS** 038, 040<br>**COMM** 012<br>**COUN** 015, 023<br>**CJ** 001<br>**ECON** 001, 002<br>**ETHN** 001, 024, 028, 029, 031<br>**GEOG** 002, 004, 006<br>**HED** 001<br>**HIST** 002*, 003*, 004*, 005*, 010*, 017*, 018*, 028*, 029*, 031*, 037*<br>**JOUR** 011<br>**PHIL** 006*<br>**PLSC** 001, 002, 003, 004, 005, 006*, 007, 016, 019<br>**PSYC** 001+, 002, 004, 005, 006, 007, 012, 020, 030, 034<br>**SJS** 001, 002, 030<br>**SOC** 001, 002, 023, 040, 045<br>*Course from another college*_____ *CPL/Outside Exam*_____ | | | |
| **AREA 5 – Physical and Biological Sciences** | | | | |
| • **Complete 1 course from each 5A and 5B; one of which must include a lab**<br>• **5C may be used to complete the lab requirement; the corresponding lecture course must be completed prior to or concurrently with the lab course** | | C | IP | P |
| 5A<br>Physical Science | **ASTR** 010, 030+, 040+, 045 **GEOL** 001, 005, 006<br>**CHEM** 001(L), 002(L), 003(L), 004(L), 010(L)+, 011(L)+, 012(L)<br>**ENGR** 045(L) **PHSC** 012(L)+, 013, 015, 016<br>**GEOG** 001 **PHYS** 002(L)+, 004(L)+, 006(L)+, 007(L)+, 008(L)+, 010+<br>*Course from another college*_____ *CPL/Outside Exam*_____ | | | |
| 5B<br>Biological Science | **ANTH** 001 **BIOT** 001, 010(L)<br>**BIO** 002(L), BIO 003(L), 004(L)+, 005(L)+, 012, 014(L), 015(L)+, 016+, 018, 019(L), 020, 025<br>*Course from another college*_____ *CPL/Outside Exam*_____ | | | |
| 5C Lab<br>(if not met in 5A or 5B) | **ANTH** 001L **BIO** 012L+, 016L+ **GEOL** 002, 006L<br>**ASTR** 020 **GEOG** 001L **PHSC** 014<br>*Course from another college*_____ *CPL/Outside Exam*_____ | | | |
| **AREA 6 – Language Other Than English (UC Requirement Only)** | | | | |
| • **Complete 1 course or proficiency equivalent to 2 years of high school courses in the same language** | | C | IP | P |
| 6 | **ASL** 001, 002, 003, 004 **SPAN** 001, 002+, 003, 004, 011<br>**FREN** 001, 002, 003, 004, 032<br>*Completed in high school*_____ *Course from another college* _____<br>*AP/IBHL/SAT Exam*_____ *Other* _____ | | | |
| **AREA 7 – Ethnic Studies** | | | | |
| • **Complete 1 course (minimum 3 units)** | | C | IP | P |
| 7 | **ANTH** 024* **ENGL** 033*, 036* **HIST** 028*, 029*, 031*<br>**ARTH** 035* **ETHN** 001*, 024*, 028*, 029*, 031*, 033*, 035*, 036*<br>*Verified course from another college*_____ | | | |
| **CSU Graduation Requirement in American Institutions (Not part of IGETC, may be completed prior to transfer)** | | | | |
| • **Complete 1 course each from CSU 1 and CSU 2**<br>• **Check with transfer university as they may allow courses to also be used in Area 3B or 4**<br>○ **Some limits may apply based on university.** | | C | IP | P |
| CSU 1 | **PLSC** 001, 005 | | | |
| CSU 2 | **ETHN** 028, 029, 031(as of Fall 2022) **HIST** 017, 018, 028, 029, 031(as of Fall 2022), 037 | | | |
| **SCC Cross-Cultural Graduation Requirement (Exempt if earning an AA - T or AS- T)** | | | | |
| **Complete 1 course, which may be used in one other subject area** | | C | IP | P |
| SCC | **ANTH** 002, 006 **COMM** 012 **HIST** 037 **PLSC** 005<br>**ARTH** 035 **COUN** 015 **HSW** 082 **PSYC** 007<br>**CDFS** 053 **ENGL** 036 **HUMN** 003 **SJS** 002<br>**CINA** 011 **ETHN** 001, 035, 036 **MUSC** 013 **THEA** 013 | | | |

# CSU General Education Breadth

| Associate Degree Requirements | Units | C | IP | P |
|---|---|---|---|---|
| Major Requirements (See http://www.solano.edu/degrees/ for AA/AS and www.assist.org for transfer) | | | | |
| CSU General Education Breadth Requirements | | | | |
| Electives as needed to reach 60 units (any course 001-099) | | | | |
| 2.0 overall grade point average at time of graduation | | | | |
| **A minimum total of 60 degree-applicable units** | | | | |
| 12 units at Solano Community College with a minimum grade of C | | | | |

The CSU GE-Breadth is a series of courses that California Community College (CCC) students may complete to satisfy the lower- division breadth/general education requirements before transferring to the California State University. The CSU GE-Breadth pattern is certified by the CCC and accepted by all CSU campuses.

| AREA A – English Language Communication and Critical Thinking | | | | |
|---|---|---|---|---|
| • **Complete 1 course from each A1, A2, and A3**<br>• **Must be completed with a minimum grade of C (minimum 9 units)** | | **C** | **IP** | **P** |
| A1 | **Oral Communication: COMM** 001, 002, 006*<br>*Course from another college*_____ *CPL/Outside Exam*_____ | | | |
| A2 | **Writing Communication: ENGL** 001, **ENGL** 001E, **ENGL** 001X<br>*Course from another college*_____ *CPL/Outside Exam*_____ | | | |
| A3 | **Critical Thinking: COMM** 002, 006* **ENGL** 002, 004 **PHIL** 001, 005<br>*Course from another college*_____ *CPL/Outside Exam*_____ | | | |
| **AREA B – Scientific Inquiry and Quantitative Reasoning** | | | | |
| • **Complete 1 course from each B1, B2, and B4; one of which must include a lab**<br>• **B3 may be used to complete the lab requirement (minimum 9 units)** | | **C** | **IP** | **P** |
| B1<br>Physical Science | **ASTR** 010, 030, 040, 045 **GEOL** 001, 005, 006, 010<br>**CHEM** 001(L), 002(L), 003(L), 004(L), 010(L), 011(L), 012(L), 030<br>**ENGR** 045(L) **PHSC** 012(L), 013, 015, 016<br>**GEOG** 001, 010 **PHYS** 002(L), 004(L), 006(L), 007(L), 008(L), 010<br>*Course from another college*_____ *CPL/Outside Exam*_____ | | | |
| B2<br>Life Science | **ANTH** 001 **BIOT** 001<br>**BIO** 002(L), 003(L), 004(L), 005(L), 012, 014(L), 015(L), 016, 018*, 019(L), 020, 025<br>*Course from another college*_____ *CPL/Outside Exam*_____ | | | |
| B3 Lab<br>(if not met in B1 or B2) | **ANTH** 001L **BIO** 012L, 016L **GEOG** 001L **PHSC** 014<br>**ASTR** 020, 050 **CHEM** 030L **GEOL** 002, 006L<br>*Course from another college*_____ *CPL/Outside Exam*_____ | | | |
| B4<br>Mathematics | **ENGR** 008, 012<br>**MATH** 002, 004, 011, 012, 020, 021, 022, 023, 030, 031, 040, 049, 051, 055<br>**(must be completed with a minimum grade of C)**<br>*Course from another college*_____ *CPL/Outside Exam*_____ | | | |
| **AREA C – Arts and Humanities** | | | | |
| • **Complete 3 courses. A minimum of 1 course from each C1 and C2 (minimum 9 units)** | | **C** | **IP** | **P** |
| C1<br>Arts | **ART** 030B, 030C **MUSC** 005, 007, 008, 013, 045*<br>**ARTH** 001, 011, 012, 021, 025, 031, 035* **PHOT** 031, 035<br>**CINA** 010, 011 **THEA** 001, 002, 006, 009, 010, 011, 013, 015<br>**DANC** 004, 012A (1 unit)<br>**ETHN** 035*, 045* *Course from another college*_____ *CPL/Outside Exam*_____ | | | |
| C2<br>Humanities | **ASL** 001, 005, 006<br>**ENGL** 006, 007, 018, 021, 023, 024, 030, 031, 033*, 036*, 040, 041, 044, 058<br>**ENGR** 003 **ETHN** 028*#, 029*#, 031*#, 033*, 036*<br>**FREN** 001, 002, 003, 004, 011, 031, 032<br>**HIST** 002*, 003*, 004*, 005*, 010*, 017*#, 018*#, 028*#, 029*#, 031*#, 037*#<br>**HUMN** 001, 002, 003<br>**PHIL** 003, 004 **SPAN** 001, 002, 003, 004, 011<br>*Course from another college*_____ *CPL/Outside Exam*_____ | | | |

# CSU General Education Breadth

| AREA D – Social Sciences | | | | |
|---|---|---|---|---|
| • Complete 2 courses (minimum 6 units) | | | C | IP | P |
| D | **ANTH** 002, 006, 007, 024*<br>**CDFS** 038, 040, 050, 053, 070<br>**CJ** 001<br>**COMM** 012<br>**COUN** 015, 023<br>**ECON** 001, 002<br>**ETHN** 001*, 024*, 028*#, 029*#, 031*#<br>**GEOG** 002, 004, 006<br>**HED** 001<br>**HIST** 002*, 003*, 004*, 005*, 010*, 017*#, 018*#, 028*#, 029*#, 031*#, 037*#<br>**HSW** 001<br>**PHIL** 006<br>**PLSC** 001, 002, 003, 004, 005, 006, 007, 016, 019<br>**PSYC** 001, 002, 004, 005, 006, 007, 012, 020, 030, 034<br>**SJS** 001, 002, 030<br>**SOC** 001, 002, 023, 040, 045, 075<br>**TV** 050<br>**JOUR** 011<br>*Course from another college_____ CPL/Outside Exam_____* | | | |

| AREA E – Lifelong Learning and Self Development | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| • Complete 3 semester units with no more than 1 unit of physical activity<br>• Courses in this area may be less than 3 units - please see catalog for unit values | | | | | | | C | IP | P |
| E | **ATHL** 001 | 003 | 004 A-B | 010 A-B | 016 A-B | 025 | | | |
| | 001A-B | 003 A-B | 005 | 012 | 022 | 050A | | | |
| | 002 A-E | 004 | 010 | 015 A-B | 022 A-B | 050B | | | |
| | **BIO** 018* | | | | | | | | |
| | **CDFS** 038*, 040, 050, 054, 070 | | | | | | | | |
| | **COUN** 005, 007, 058, 098 | | | | | | | | |
| | **DANC** 010A-B, 11A-B, 12A*-B, 13A-C, 14A-B, 15A, 16A-B, 20A, 25A-B | | | | | | | | |
| | **HED** 002, 003 | | | | | | | | |
| | **KINE** 002A,B,D; 003A,B,D,E,X,Y; 006E,F,X,Y; 010A; 011A,B,X,Y; 012A,B,X,Y; 013A; 018A,B,X,Z; 019A,B; 021A,B; 023A,B,X,Y,Z; 024A; 025A,B; 030A,B; 032A,X; 036A,B; 037A,B; 041A, 042A | | | | | | | | |
| | **NUTR** 010, 054 | | | | | | | | |
| | **PSYC** 006, 020, 034 | **SPMD** 071 | **DD214** Military | | | | | | |
| | *Course from another college_____ CPL/Outside Exam_____* | | | | | | | | |

| AREA F – Ethnic Studies | | | | |
|---|---|---|---|---|
| • Complete 1 course (minimum 3 units)<br>• May not be counted in any other subject area | | | C | IP | P |
| F | **ANTH** 024<br>**ARTH** 035<br>**ENGL** 033, 036<br>**ETHN** 001, 024, 028, 029, 031, 033, 035, 036<br>**HIST** 028, 029, 031<br>*Verified course from another college_____* | | | | |

| CSU Graduation Requirement in American Institutions<br>(Not required for transfer, but may be completed prior to) | | | | |
|---|---|---|---|---|
| • Complete 1 course each from CSU 1 and CSU 2<br>• Check with transfer university as they may allow courses to also be used in Area C2 or D<br>○ Some limits may apply based on university | | C | IP | P |
| CSU 1 | **PLSC** 001, 005 | | | |
| CSU 2 | **ETHN** 028, 029, 031(as of Fall 2022) **HIST** 017, 018, 028, 029, 031(as of Fall 2022), 037 | | | |

| SCC Cross-Cultural Graduation Requirement<br>(Exempt if earning an AA- T or AS- T) | | | | | | |
|---|---|---|---|---|---|---|
| • Complete 1 course which may be used in one other area | | | | | C | IP | P |
| SCC | **ANTH** 002, 006<br>**ARTH** 035<br>**CDFS** 053<br>**CINA** 011 | **COMM** 012<br>**COUN** 015<br>**ENGL** 036<br>**ETHN** 001, 035, 036 | **HIST** 037<br>**HSW** 082<br>**HUMN** 003<br>**MUSC** 013 | **PLSC** 005<br>**PSYC** 007<br>**SJS** 002<br>**THEA** 013 | | | |

General Education
General Education Outcomes (GELOs)
Upon completion of Solano Community College's General Education program, a student will demonstrate competency in the following areas:

Communication and Critical Thinking
**SCC-GE, Area A, B IGETC, Area 1 and 6 CSU GE, Area A**

- Students will develop their writing, listening and speaking skills to communicate effectively
- Students will engage in critical thinking to analyze problems and consider potential solutions

Scientific Inquiry and Quantitative Reasoning
**SCC-GE, Area B, C IGETC, Area 2 and 5 CSU-GE, Area B**

- Students will engage in scientific inquiry to discover and apply information to the analysis of data and/or scientific phenomena
- Students will solve problems using appropriate mathematical and/or statistical techniques

Arts and Humanities
**SCC-GE, Area D IGETC, Area 3 CSU-GE, Area C**

- Students will exhibit an understanding of the ways in which people in diverse cultures and eras have produced creative works
- Students will analyze significant events and/or works from the past, including cultural and regional influences
- Students will create works through diverse forms of expression

Social Sciences
**SCC-GE, Area E IGETC, Area 4 CSU-GE, Area D**

- Students will analyze human behavior in a variety of contexts
- Students will investigate the social, political, economic, historical, geographical, and/or psychological forces that impact individuals, groups, and society

Lifelong Learning and Self Development
**SCC-GE, Local District Requirement CSU-GE, Area E**

- Students will demonstrate knowledge of the physical, psychological, cognitive, and/or developmental practices that foster personal well-being and human development

Cross-Cultural Studies
**SCC-GE, Area F**

- Students will analyze cross-cultural beliefs, practices, and forms of expression to gain a rich understanding of self and others

GENERAL EDUCATION PHILOSOPHY AND CRITERIA
General education represents the breadth component of a liberal arts education as compared with the in-depth study required for a major. The purpose of this requirement is to give students the opportunity to become acquainted with intellectual, social, and aesthetic perspectives that can form the basis of an expanded plan for lifelong learning and enjoyment. In addition, it is designed to assist students in achieving an expanded context within which to explore their majors so as to enrich these specialized viewpoints. This philosophy is intrinsic to the development of the following basic educational abilities and skills:

- To improve the essential communication skills of speaking, writing, reading, and listening.
- To understand the heritage and culture of one's own society and the society of others.
- To provide opportunities to gain information which could aid students in making realistic career decisions.
- To provide the opportunity for students to achieve competence in mathematics and analytical thinking appropriate to their needs.
- To provide educational experiences for students to gain understanding and appreciation in the basic areas of knowledge: the social and behavioral sciences, the natural sciences, and the humanities which will provide an opportunity for cultural, intellectual and personal growth.
- To develop insight and knowledge in the area of self-understanding.
- To develop the knowledge and understanding of the rights, responsibilities and privileges involved in becoming a participating citizen in a democratic society.
- To develop an understanding of technological developments and the effects these will have on society today and in the future.

GENERAL EDUCATION STRUCTURE
There are three options available for completing the General Education requirements for the Associate Degree. Requirements for SCC GE, IGETC, and CSU C are as follows:

**Solano Community College GE (Local/Non-Transfer)**
*Cross-Cultural Studies Requirement*
The general education requirement for an Associate Degree from Solano Community College includes a 3 unit Cross-Cultural Studies course. Any Cross-Cultural Studies course, either current or future, may be used by students to satisfy this requirement even if that course first appears in a Catalog subsequent to the beginning of the student's course of study.

IGETC (Intersegmental General Education Transfer Curriculum)
To satisfy the general education requirements for the Associate Degree, completion of Intersegmental General Education Transfer Curriculum (IGETC) requirements may be used in lieu of the Solano Community College General Education requirements.

*Cross-Cultural Studies Requirement**
At least one of the cross-cultural courses listed on the GE sheet must be completed in order to use this option to fulfill the SCC GE requirement.

**CSU-GE Breadth (California State University General Education Breadth)**
To satisfy the general education requirements for the Associate Degree, completion of the California State University (CSU) general education breadth pattern may be used in lieu of the requirements listed in SCC GE or IGETC. In order to use this option, courses must be completed with the grades required for admission to the CSU campuses. Meet with a counselor for further information.

*Cross-Cultural Studies Requirement**
At least one of the cross-cultural courses listed on the GE sheet must be completed in order to use this option to fulfill the SCC GE requirement:

*Not required if student is completing an ADT.

GENERAL EDUCATION FOR THE UC AND CSU SYSTEMS
In addition to preparing for their transfer major, students are encouraged to complete the lower division portions of their general education (GE) program as well. These requirements may be met using one of two patterns. The Intersegmental General Education Transfer Curriculum (IGETC) and the California State University General Education Breadth pattern (CSU GE). The IGETC pattern is accepted at both the UC and the CSU to meet lower division GE requirements. All courses used for IGETC must be completed with a minimum grade of C.

California State University General Education Breadth (CSU-GE)

The CSU GE pattern is accepted for lower division general education at the CSU only. Completion of either of these patterns will permit students to transfer to the universities with all of their lower division GE courses completed. Students may also elect to follow the specific general education requirements for the college to which they plan to transfer.

**Intersegmental General Education Transfer Curriculum (IGETC)**
Completion of the IGETC is not a requirement for transfer to a CSU or UC, nor is it the only way to fulfill the lower- division general education requirements of the CSU or UC prior to transfer. Students may find it advantageous to take courses fulfilling CSU's general education requirements or those of a particular UC campus. Upon completion of CSU-GE or IGETC, a student must request certification.

GE certification may be verified with a counselor who will confirm that all requirements have been met. To see a list of the courses that meet the IGETC and CSU GE requirements see the forms on the preceding pages. These forms are used by counselors and students to identify appropriate course selection. This does not substitute for counseling advice which includes consideration of many other variables.

NOTE: In recent years, many major programs at the UC and CSU have turned away qualified applicants because of space limitations. Thus, to be competitive, students should endeavor to complete as much of the lower division preparation for their major as possible before transferring and earn stellar grades.

Major preparation gives students the best opportunity to begin upper-level courses as soon as they transfer. Additionally, some majors require that students complete specific courses before they may transfer.

*Consult with a counselor to plan course selection.*

UNIVERSITY OF CALIFORNIA GENERAL EDUCATION REQUIREMENTS
The general education requirements are designed to give UC undergraduates a broad background in all major academic disciplines—natural sciences, physical sciences, social sciences, humanities, and fine arts. The general education requirements specify the courses students must take or credit hours they must accumulate in each area.

Each school and college at every UC campus has its own set of requirements. They are described in the campus catalogs and articulation agreements. With careful planning, the student can meet many of the requirements while attending community college. At some campuses and in some majors, transfer students must fulfill all or a portion of the general education requirements before transferring.

Transfer applicants may satisfy lower division general education requirements at any UC campus by completing the Intersegmental General Education Transfer Curriculum (IGETC).

However, some majors and some colleges within a particular UC campus may not accept IGETC. Meet with a counselor for more information. See IGETC - Option B for the specific Solano Community College courses.

# *Applied Technology and Business Degrees and Certificates*

| | Associate Degree | Associate Degree for Transfer | Certificate of Achievement | Job-Direct Low Unit Certificate |
|---|---|---|---|---|
| **ACCOUNTING DEPARTMENT** | | | | |
| Accounting* | ✓ | | × | |
| Account Clerk | | | | JDC |
| **ADMINISTRATION OF JUSTICE DEPARTMENT** | | | | |
| Administration of Justice | | | | |
| Criminal Justice, Corrections* | ✓ | | × | |
| Criminal Justice, Law Enforcement* | ✓ | | × | |
| **ADVANCED MANUFACTURING DEPARTMENT** | | | | |
| Automation Technology* | ✓ | | × | |
| Maintenance Technician | | | × | |
| Mechatronics* | ✓ | | × | |
| **AERONAUTICS DEPARTMENT** | | | | |
| Airframe Maintenance Technician* | ✓ | | × | |
| Powerplant Maintenance Technician* | ✓ | | × | |
| Airframe & Powerplant Maintenance Technician* | ✓ | | × | |
| **AUTOMOTIVE DEPARTMENT** | | | | |
| Automotive Technician* | ✓ | | | |
| Automotive Automatic Transmissions and Transaxles* | | | × | |
| Automotive Electrical and Body Systems* | | | × | |
| Automotive Maintenance and Light Repair* | | | × | |
| **BUSINESS DEPARTMENT** | | | | |
| ***Business*** | | | | |
| Business Administration 2.0 | | | | |
| Business, General | ✓ | | | |
| Business Insurance: Property & Casualty* | ✓ | | × | |
| Insurance Specialist | | | | JDC |
| ***Management*** | | | | |
| Management* | ✓ | | × | |
| Retail Management* | ✓ | | × | |
| Small Business Management* | ✓ | | × | |
| ***Marketing*** | | | | |
| Marketing* | ✓ | | × | |
| ***Office Technology*** | | | | |
| Administrative Assistant* | ✓ | | × | |
| Medical Administrative Assistant* | | | × | |
| **COMPUTER INFORMATION SCIENCE DEPARTMENT** | | | | |
| Computer Programming* | ✓ | | × | |
| Microcomputer Applications* | ✓ | | × | |
| Web Design and Development* | ✓ | | × | |
| Computer Applications Specialist | | | | JDC |
| Database Specialist | | | | JDC |
| Digital and Print Publishing | | | | JDC |
| Digital Media and Web Development | | | | JDC |
| Microsoft Office Specialist | | | | JDC |
| Motion Graphic Editor | | | | JDC |
| Web Programmer | | | | JDC |
| **COMPUTER SCIENCE DEPARTMENT** | | | | |
| Computer Science | | | | |
| **COSMETOLOGY DEPARTMENT** | | | | |
| Cosmetology* | | | × | |
| Esthetics | | | x | |
| Nail Technology | | | x | |
| **DRAFTING DEPARTMENT** | | | | |
| Drafting and Design Technician* | ✓ | | × | |
| Survey and Civil Drafting Technician* | ✓ | | × | |
| Computer Aided Drafting (CAD) Technician | | | | JDC |
| Maker Space Technology | | | × | |
| **ECONOMICS DEPARTMENT** | | | | |
| Economics | | | | |
| **FIRE TECHNOLOGY DEPARTMENT** | | | | |
| Fire Technology* | ✓ | | × | |
| Firefighter 1 Academy | | | x | |
| **OCCUPATIONAL EDUCATION DEPARTMENT** | | | | |
| Soft Skills for Technicians | | | | JDC |
| **REAL ESTATE DEPARTMENT** | | | | |
| Real Estate* | ✓ | | × | |
| **WELDING DEPARTMENT** | | | | |
| Welding Technician* | ✓ | | × | |

# Counseling Degrees and Certificates

| | Associate Degree | Associate Degree for Transfer | Certificate of Achievement | Job-Direct Low Unit Certificate |
|---|---|---|---|---|
| **INTERDISCIPLINARY STUDIES DEPARTMENT** | | | | |
| Wellness and Self Development | ✓ | | | |
| **LIBERAL STUDIES DEPARTMENT** | | | | |
| Liberal Studies | ✓ | | | |
| **TRANSFER STUDIES DEPARTMENT** | | | | |
| Transfer Studies: CSU GE | | | ✓ | |
| Transfer Studies: IGETC | | | ✓ | |

# Health Sciences Degrees and Certificates

| | Associate Degree | Associate Degree for Transfer | Certificate of Achievement | Job-Direct Low Unit Certificate |
|---|---|---|---|---|
| **DANCE DEPARTMENT** | | | | |
| Dance | ✓ | | | |
| **EMERGENCY MEDICAL TECHNICIAN DEPARTMENT** | | | | |
| Emergency Medical Technician | | | | JDC |
| **HEALTH EDUCATION** | | | | |
| Public Health Science | | | | |
| **KINESIOLOGY DEPARTMENT** | | | | |
| Kinesiology | | | | |
| Sports Medicine/Athletic Training | ✓ | | | |
| **NURSING DEPARTMENT** | | | | |
| Nursing, Registered* | ✓ | | | |
| Certified Nursing Assistant | | | | JDC |
| **NUTRITION DEPARMENT** | | | | |
| Nutrition | | | | |

# Liberal Arts Degrees and Certificates

| | Associate Degree | Associate Degree for Transfer | Certificate of Achievement | Job-Direct Low Unit Certificate |
|---|---|---|---|---|
| **ART DEPARTMENT** | | | | |
| Art History | | | | |
| Studio Arts | | | | |
| Studio Arts with Emphasis | ✓ | | | |
| **COMMUNICATION STUDIES DEPARTMENT** | | | | |
| Communication Studies 2.0 | | | | |
| Sports Broadcasting* | | | x | |
| **DIGITAL MEDIA ARTS DEPARTMENT** | | | | |
| Graphic Design & Illustration | ✓ | | | |
| **ENGLISH DEPARTMENT** | | | | |
| English | ✓ | | | |
| **FILM AND TELEVISION DEPARTMENT** | | | | |
| Film and Television | ✓ | | | |
| **JOURNALISM DEPARTMENT** | | | | |
| Journalism | | | | |
| **MUSIC DEPARTMENT** | | | | |
| Music | | | | |
| Music: Instrumental | ✓ | | | |
| Music: Vocal | ✓ | | | |
| **PHOTOGRAPHY DEPARTMENT** | | | | |
| Photography, Professional* | ✓ | | ✓ | |
| Photo Illustration* | | | ✓ | |
| **THEATRE ARTS DEPARTMENT** | | | | |
| Theatre Arts | ✓ | | | |
| Theatre Arts Technical* | | | ✓ | |
| **WORLD LANGUAGES DEPARTMENT** | | | | |
| World Languages | ✓ | | | |
| American Sign Language | ✓ | | | |
| ASL/English Interpreter Training* | ✓ | | x | |
| French | ✓ | | | |
| Spanish | ✓ | | | |
| Spanish/English Communication Specialist | | | x | |
| Spanish/English Health Care Interpreter Training | | | x | |

# *Mathematics and Sciences Degrees and Certificates*

| | Associate Degree | Associate Degree for Transfer | Certificate of Achievement | Job-Direct Low Unit Certificate |
|---|---|---|---|---|
| **ASTRONOMY DEPARTMENT** | | | | |
| Astronomy | ✓ | | | |
| **BIOLOGY DEPARTMENT** | | | | |
| Biology | ✓ | ◆ | | |
| Biomedical Sciences | ✓ | | x | |
| **BIOTECHNOLOGY DEPARTMENT** | | | | |
| Biomanufacturing Bachelor of Science* | | | | |
| Biotechnology Laboratory Assistant* | | | x | |
| Industrial Biotechnology* | ✓ | | x | |
| Cell and Gene Therapies* | | | x | |
| **CHEMISTRY DEPARTMENT** | | | | |
| Chemistry | ✓ | | | |
| **ENGINEERING DEPARTMENT** | | | | |
| Engineering | ✓ | | | |
| Data Science | ✓ | | x | |
| **GEOGRAPHY DEPARTMENT** | | | | |
| Geography | | ◆ | | |
| **HORTICULTURE DEPARTMENT** | | | | |
| Horticulture and Plant Science* | ✓ | | ✓ | |
| Landscape Designer | | | | JDC |
| Landscape Technician | | | | JDC |
| **INTERDISCIPLINARY STUDIES DEPARTMENT** | | | | |
| Science and Quantitative Reasoning | ✓ | | | |
| **MATHEMATICS DEPARTMENT** | | | | |
| Mathematics | | ◆ | | |
| **PHYSICAL SCIENCE DEPARTMENT** | | | | |
| Physical Science | ✓ | | | |
| **PHYSICS DEPARTMENT** | | | | |
| Physics | ✓ | ◆ & UCTP | | |
| **SCIENCE DEPARTMENT** | | | | |
| Science, General | ✓ | | | |
| **WATER AND WASTEWATER TECHNOLOGY DEPARTMENT** | | | | |
| Water and Wastewater Technology* | ✓ | | ✓ | |

# *Social and Behavioral Sciences Degrees and Certificates*

| | Associate Degree | Associate Degree for Transfer | Certificate of Achievement | Job-Direct Low Unit Certificate |
|---|---|---|---|---|
| **CHILD DEVELOPMENT AND FAMILY STUDIES DEPARTMENT** | | | | |
| Early Childhood Education* | ✓ | ◆ | x | |
| Infant/Toddler Teacher* | | | x | |
| Associate Teacher* | | | x | |
| **ANTHROPOLOGY DEPARTMENT** | | | | |
| Anthropology | | ◆ | | |
| **EDUCATION DEPARTMENT** | | | | |
| Elementary Teacher Education | | ◆ | | |
| **HISTORY DEPARTMENT** | | | | |
| History | | ◆ | | |
| **HUMAN SERVICES DEPARTMENT** | | | | |
| Human Services and Social Work* | ✓ | | ✓ | |
| **POLITICAL SCIENCE DEPARTMENT** | | | | |
| Political Science | | ◆ | | |
| **PSYCHOLOGY DEPARTMENT** | | | | |
| Psychology | ✓ | ◆ | | |
| **SOCIAL JUSTICE/ETHNIC STUDIES DEPARTMENT** | | | | |
| Social Justice Studies | | ◆ | | |
| Ethnic Studies | ✓ | | | |
| **SOCIOLOGY DEPARTMENT** | | | | |
| Sociology | ✓ | ◆ | | |

An asterisk (*) following a program name indicates a CTE discipline

◆ = Associate Degree for Transfer ✓= Associate Degree + = Certificate of Achievement JD = Job-Direct Low Unit Certificate

# Associate Degree for Transfer

*A Degree with a Guarantee.℠*

## *Applied Technology and Business*

| Program | A.A.-T | A.S.-T |
|---|---|---|
| Administration of Justice | | ◆ |
| Business Administration 2.0 | | ◆ |
| Computer Science | | ◆ |
| Economics | ◆ | |

## *Health Sciences*

| | | |
|---|---|---|
| Kinesiology | ◆ | |
| Nutrition | | ◆ |
| Public Health Science | | ◆ |

## *Liberal Arts*

| Program | A.A.-T | A.S.-T |
|---|---|---|
| Art History | ◆ | |
| Studio Arts | ◆ | |
| Communication Studies 2.0 | ◆ | |
| English | ◆ | |
| Journalism | ◆ | |
| Music | ◆ | |
| Theatre Arts | ◆ | |
| Spanish | ◆ | |

## *Mathematics and Sciences*

| Program | A.A.-T | A.S.-T |
|---|---|---|
| Biology | | ◆ |
| Geography | ◆ | |
| Mathematics | | ◆ |
| Physics | | ◆ |
| Physics UCTP | | ◆ |

## *Social and Behavioral Sciences*

| Program | A.A.-T | A.S.-T |
|---|---|---|
| Anthropology | ◆ | |
| Early Childhood Education | | ◆ |
| Elementary Teacher Education | ◆ | |
| History | ◆ | |
| Political Science | ◆ | |
| Psychology | ◆ | |
| Social Justice Studies | ◆ | |
| Sociology | ◆ | |

The Student Transfer Achievement Reform Act of 2010 (SB 1440 - Padilla) enables the California Community Colleges and California State University to collaborate on the creation of Associate in Arts (AA) Degree and Associate in Science (AS) Degree transfer programs. Upon completion of the associate degree, the student is eligible for transfer with junior standing into the California State University (CSU) system. Students are given guaranteed admission into the California State University (CSU) system, and further are given priority consideration when applying to a particular program that is similar to the student's community college major. For more information, see the CSU website on Associate Degrees for Transfer https://www2.calstate.edu/apply/transfer/Pages/ccc-associate-degree-for-transfer.aspx

Special Courses and Programs
Air Force ROTC - Air Force (CSUS)
www.csus.edu/afrotc **det88recruiting@gmail.com**
**AFROTC, California State University, Sacramento,**
**Department of Aerospace Studies, Yosemite Hall**
**(916) 278-7315**
Air Force Reserve Officer Training Corps (AFROTC) is available to Solano Community College students through a program offered at California State University, Sacramento (CSUS). The CSUS Department of Aerospace Studies offers three-or four-year programs leading to a commission in the United States Air Force. All coursework is completed at CSUS.

Scholarships are available to qualified students. Application to the program is typically completed not later than the first semester of the sophomore year, but juniors may apply under certain conditions.

Upon completion of all the program requirements for a Bachelor's degree, cadets are commissioned second lieutenants in the Air Force and serve a minimum of four years on active duty.

CAREER AND TECHNICAL EDUCATION
The college encourages CTE students to plan, with counselor assistance, a course of study which will prepare the student for a career. Educational programs in this area offer a planned curriculum which can lead to either a certificate, an Associate degree, or transfer to a four-year college. Although many four-year colleges give full or partial credit for some specialized CTE courses, these programs are not primarily designed to satisfy transfer requirements. The student planning a Career and Technical Education major and wishing to transfer to a four-year college should plan a transfer program with the assistance of a college counselor.

WORKFORCE DEVELOPMENT
Solano Community College staff work closely with local business, industry, and advisory groups to design occupational programs that meet the needs of employers and residents in Solano County.

Experienced workers can upgrade skills and knowledge or enter a new field. In some areas, it is possible to enter a new field and get a certificate in a year or less. An associate degree can take two years or longer depending upon the field and the student's prior education. Many courses and programs are transferable to four-year institutions.

Equal access in occupational training through our career technical education (CTE) programs is provided for all students regardless of race, handicap, national origin, age or gender. Solano Community College career technical education (CTE) programs encourage women and men to enter non-traditional fields for their gender.

INDEPENDENT STUDY AND HONORS COURSES
Students in good standing at Solano Community College may pursue their studies and research beyond courses listed in the Catalog through Independent Study and Honors courses. Units taken may not be transferable.
Students should consult with a counselor regarding a specific college or university's acceptance of these units.

The course(s) consist of regular meetings with the instructor; examinations or other measures of evaluation, field trips, term papers, and assignments may be required.

Independent Study and Honors is an opportunity for students to extend classroom experience in a specific subject, while working independently of a formal classroom situation. Independent study and Honors courses cannot be used to repeat or to substitute for an existing SCC course.

To be eligible for independent study, students must have successfully completed 12 units of college credit, including 4 units from within the discipline. To be eligible for honors, students must have completed 24 units of college credit with a minimum GPA of 3.3; and a minimum of 6 units in the discipline with a minimum grade of B.

**Independent Study or Honors Course Process:**

- Discuss educational plan and the transferability of the course with a counselor.
- Discuss the option of an independent study or honors course with an instructor in the discipline.
- If the instructor agrees to supervise this course, the student and the instructor will complete a contract.
- The instructor will route the contract for the necessary approval.
- If the Contract receives final approval, Admissions and Records will add the class to the student's schedule and contact them by way of email to pay the enrollment fees.
- The completed contract must be filed by the deadline published in the class schedule in the semester in which the study is to be completed.
- At the end of the semester the student will receive a grade.

OCCUPATIONAL EDUCATION – WORK EXPERIENCE

Occupational Education is an experiential, academic program which allows students in paid or unpaid positions to apply what they have learned in the classroom to a work environment. In conjunction with their Work Experience weekly orientation course, students may earn units working in a part-time or full-time position with a licensed business. Students may brush up on soft skills or create a career portfolio - no job required. Note: See the Occupational Education program page for specific work experience courses.

ONLINE AND HYBRID CLASSES

Solano Community College offers two types of Internet classes for credit: online and hybrid classes. Online classes are taught over the Internet and hybrid classes are taught partly over the Internet and partly in the classroom. These classes have regular assignment schedules and reading material and the same learning requirements as traditional classes.

Participation in online sections and hybrid sections requires that students have a computer with Internet access and a web browser. The individual classes will also have additional requirements such as a textbook and possibly a specific software program to be used. A student may also have to come to campus for a required in-person exam or orientation. Online sections are coded as ONLN, OVJO, and OVV.

**ONLINE:** These classes utilize the Internet and Canvas, our course management system, to create an educational experience that can be partly independent of time and place. Students still purchase textbook(s) and take tests and meet due dates, but they do the majority if not all of the class work at any computer connected to the Internet. Within the semester structure and set deadlines, students complete work according to their own schedule, at home, in the office, or on open access computers on campus in the library. Course materials, the syllabus, assignments, tests, and links to other Web resources are contained within Canvas. Students communicate with their instructor, and each other, by sending and receiving email and by participating in "threaded discussions." These are discussions that continue over time where students drop in to read the comments and to add their own. While online classes may not be for everyone, they are well-suited to students who are self-motivated, who have access to a computer, who may have busy daytime schedules, and who may not be able to travel to campus for classes with specific meeting times.

**HYBRID:** These classes use a combination of the face-to- face and online formats. Some activities will be conducted in a group (traditional class) format and some activities are conducted online through Canvas. These classes offer the best of both worlds - flexibility with the online portion and the sense of being in a group with a traditional class meeting and face-to-face instruction.

SHORT-TERM COURSES

Solano Community College offers some short-term courses with flexible schedules which enable students to continue to work while they upgrade skills and obtain the knowledge needed to qualify for career advancement or change.

Community College Pathway to Law School Initiative (CCPLS)
The Community College Pathway to Law School (CCPLS) Initiative is the first and only of its kind to provide a clear pathway from community college to law school.

The CCPLS Initiative is the product of the visionary leadership of the California State Bar's Council on Access and Fairness (COAF). As a participating institution in the initiative, Solano Community College (SCC) has developed special partnerships with six top rated undergraduate and law school programs: **UC Davis, UC Irvine, USF, Santa Clara University, Loyola Marymount and USC.** Students taking part in the CCPLS program and successfully completing the initiative will be eligible to take advantage of these partnerships towards the goal of achieving a legal education.

Students apply to participate in the program. Upon admittance to the program participating students will be identified as "CCPLS / COAF Scholars" and must complete a seven (7) course core sequence and participate in activities sponsored by the CCPLS Initiative.

The curriculum and law related events build necessary skills to increase competitiveness at the next level of academia.

Upon successful completion of the undergraduate program CCPLS / COAF scholars will be eligible for admission to one of the law school programs partnering with the initiative.

For information on the Community College
Pathway to Law School Initiative,
please email the program at CCPLS@Solano.edu.

Announcement of Course and Course Numbers
COURSE NUMBERING SYSTEM
The following numbering system indicates transferability, credit or noncredit status and other related information.

Courses numbered 001-099 have been determined to generally be transferable, baccalaureate level courses. Students should understand that even though the course is designated for transfer, the courses may not meet the specific major requirements of the transferring institution. However, regardless of major applicability, these courses may be used for elective credit at the California State Universities (CSU), and may transfer to the University of California (UC) system and most private colleges and universities.

Students who plan to transfer to any campus of the University of California or other university or college should check with a counselor for transferable courses since some universities do not accept all courses numbered 001-099.

Information regarding lower division major preparation requirements required to transfer to a UC or CS campus may be obtained at www.assist.org. For information about independent or out-of-state colleges/universities, please consult with a counselor or admissions representative.

**Credit Courses:** Courses numbered 001-499 are graded courses authorized by the Governing Board of Solano Community College. All courses are not offered every year. Courses offered depend on prospective enrollment, the availability of instructors, and physical facilities. Prospective students should consult the current Schedule of Classes for information on course offerings for a specific semester.

**Noncredit Courses:** The courses numbered 500-599 are offered on a noncredit basis. Regular attendance and participation are required. No grades or college credit are issued. Contact the Admissions and Records office or see the Schedule of Classes for current offerings.

COURSE NUMBERS

001-099
Qualify for the A.A./A.S. Degree; transferable to most four-year institutions. Check with a counselor and assist.org for transferable courses.

100-199
May qualify for the A.A./A.S. Degree but, generally, do not transfer to four-year institutions.

200-299
Vocational, credit courses which DO NOT apply to the A.A./A.S. Degree and do not transfer to four-year institutions.

300-399
Credit courses which DO NOT apply to the A.A./A.S. Degree. Exception: One English course one level below ENGL 001 which may be applied to the Associate Degree as an elective and one elementary algebra course which may be used as an elective. These courses do not transfer to four-year institutions.

400-499
Upper division courses that apply to the Biomanufacturing Baccalaureate Degree.

500-599
Non-credit courses.

C-ID: The California Community College (CCC) Numbering courses at https://c-id.net/courses have been approved by the C-ID (course identification) program and given a C-ID designation. The courses with this C-ID designation will articulate with any other CCC course with the same designation for course content credit. If you have taken courses at another CCC, they may count for course credit at Solano. This website is a helpful place to start. Please connect with a Counselor for more information.

**The college reserves the right to cancel any class which does not meet the minimum enrollment requirements and whenever there are unexpected staffing or facility situations that cannot be satisfactorily resolved.**

# GPS

## GUIDED PATHWAYS SOLANO COLLEGE

### WHAT IS GPS?

**Navigating a college catalog can be frustrating if you don't know what you are looking for.**

- GPS empowers the exploration of Solano College's nearly 130 certificates and degrees according to your career goals!
- GPS provides easy-to-understand questions to guide you to the program that is right for you!
- GPS allows for meaningful exploration of program choices while making sure you take the courses you need, even if you change programs!
- GPS includes our Associate Degrees for Transfer which guarantee admission to the California State University System, and which prepare students for transfer to four-year institutions, including the University of California. GPS provides easy-to-reference recommended course sequences, so you know which courses you need now to complete your degree at Solano College!

GPS
GUIDED PATHWAYS
SOLANO COLLEGE

# GPS

## GUIDED PATHWAYS SOLANO COLLEGE

## Reach your destination with GPS!

### BUSINESS AND MANAGEMENT

- Do you want to lead or manage? Enjoy numbers and details? Like detail tasks?

### EDUCATION, BEHAVIORAL SCIENCE, AND THE SOCIAL WORLD

- Do you question and explore physical, biological, or cultural happenings?

### HEALTH AND HUMAN SERVICES

- Do you want to help, teach, counsel, or cure people?

### INDUSTRIAL AND APPLIED TECHNOLOGY

- Do you want to work hands-on with objects, machines, tools, plants, or animals? Looking for vocational training?

### SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

- Do you desire to observe, evaluate, and analyze? Interested in math and/or thinking analytically to solve complex problems?

### VISUAL, PERFORMANCE, AND LANGUAGE ARTS

- Do you express yourself creatively? Do you like to enlighten, help, or teach?

GPS
GUIDED PATHWAYS
SOLANO COLLEGE

# BUSINESS AND MANAGEMENT

## GUIDED PATHWAYS SOLANO COLLEGE (GPS)

### ARE YOU THE KIND OF PERSON WHO...

- ...desires to influence, lead or manage to reach your personal or organizational goals and/or economic gain?
- ...enjoys facts, numbers, and details?
- ...likes to carry out tasks in detail or to follow through on others' instructions?
- ...is interested in learning about how to turn your ideas into a sustainable business?

### EXPLORE OUR PROGRAMS

- Account Clerk
- Accounting
- Administrative Assistant
- Business Administration*
- Business Insurance: Property and Casualty
- Computer Applications Specialist
- Computer Programming
- Cosmetology
- Database Specialist
- Economics*
- Insurance Specialist
- Management
- Marketing
- Medical Front Office Clerk
- Microcomputer Applications
- Microsoft Office Specialist
- Real Estate
- Retail Management
- Small Business Management
- Soft Skills for Technicians
- Web Design and Development
- Web Programmer

*an asterisk indicates a program with a recommended course sequence

GPS
GUIDED PATHWAYS
SOLANO COLLEGE

# EDUCATION, BEHAVIORAL SCIENCE, AND THE SOCIAL WORLD

## GUIDED PATHWAYS SOLANO COLLEGE (GPS)

### ARE YOU THE KIND OF PERSON WHO...

- ...desires to question and explore physical, biological, or cultural happenings?
- ...enjoys using your skills with words to serve people?
- ...likes to observe, learn, analyze, evaluate, or solve problems?
- ...is interested in how social systems and society works?

### EXPLORE OUR PROGRAMS

- Administration of Justice*
- Anthropology*
- Art History*
- Associate Teacher
- Criminal Justice: Corrections
- Criminal Justice: Law Enforcement
- Early Childhood Education*
- Geography*
- History*
- Liberal Studies
- Political Science*
- Psychology*
- Social Justice Studies*
- Sociology*

* an asterisk indicates a program with a recommended course sequence

GPS
GUIDED PATHWAYS
SOLANO COLLEGE

# HEALTH AND HUMAN SERVICES

## GUIDED PATHWAYS SOLANO COLLEGE (GPS)

### ARE YOU THE KIND OF PERSON WHO...

- ...desires to inform, enlighten, help, teach, counsel, or cure people?
- ...enjoys using your skills to serve people?
- ...likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
- ...is interested in working in a medical environment?

### EXPLORE OUR PROGRAMS

- Administration of Justice*
- Administrative Assistant
- ASL/English Interpreter Training
- Associate Teacher
- Certified Nursing Assistant
- Criminal Justice: Corrections
- Criminal Justice: Law Enforcement
- Dance
- Early Childhood Education
- Emergency Medical Technician I
- General Science*
- Fire Technology
- Human Services
- Kinesiology*
- Medical Front Office Clerk
- Nutrition
- Psychology*
- Registered Nursing
- Social Justice Studies*
- Sports Medicine / Athletic Training
- Interdisciplinary Studies: Wellness and Self-Development

* an asterisk indicates a program with a recommended course sequence

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GUIDED PATHWAYS
SOLANO COLLEGE

# INDUSTRIAL AND APPLIED TECHNOLOGY

## GUIDED PATHWAYS SOLANO COLLEGE (GPS)

### ARE YOU THE KIND OF PERSON WHO...

- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan, and complete a project or task?
- ...is interested in attaining employment as soon as possible?

### EXPLORE OUR PROGRAMS

- Airframe and Powerplant Maintenance Technician
- Airframe Maintenance Technician
- Automotive Electrical and Body Systems
- Automotive Maintenance and Light Repair
- Automotive Technician
- Automotive Transmissions and Transaxles
- Biomanufacturing
- Criminal Justice: Corrections
- Criminal Justice: Law Enforcement
- Cosmetology
- Drafting and Design Technician
- Emergency Medical Technician I
- Fire Technology
- Industrial Biotechnology
- Landscape Designer
- Landscape Technician
- Mechatronics
- Powerplant Maintenance Technician
- Survey and Civil Drafting Technician
- Theater Arts Technical
- Water and Wastewater Technology
- Welding

* an asterisk indicates a program with a recommended course sequence

GPS
GUIDED PATHWAYS
SOLANO COLLEGE

# SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS

## GUIDED PATHWAYS SOLANO COLLEGE (GPS)

### ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

### EXPLORE OUR PROGRAMS

- Anthropology
- Astronomy
- Biology*
- Biomanufacturing
- Biotechnology Laboratory Assistant
- Chemistry*
- Computer Programming
- Drafting and Design Technician
- Engineering
- General Science*
- Geography*
- Horticulture and Plant Science
- Industrial Biotechnology
- Kinesiology*
- Mathematics*
- Mechatronics
- Microcomputer Applications
- Physical Science
- Physics*
- Registered Nursing
- Sports Medicine / Athletic Training
- Survey and Civil Drafting Technician
- Water and Wastewater Technology

* an asterisk indicates a program with a recommended course sequence

GPS
GUIDED PATHWAYS
SOLANO COLLEGE

# VISUAL, PERFORMANCE, AND LANGUAGE ARTS

## GUIDED PATHWAYS SOLANO COLLEGE (GPS)

### ARE YOU THE KIND OF PERSON WHO...

- ...desires to express yourself creatively and using imagination or intuition?
- ...enjoys feeling free to be inventive without limits?
- ...likes to inform, enlighten, help, or teach, using your skills with words and physicality to serve people?
- ...is interested in self-expression and thinking critically on the world in which we live?

### EXPLORE OUR PROGRAMS

- Art History*
- ASL/English Interpreter Training
- Communication Studies*
- Dance
- English*
- Film and Television
- Foreign Languages, General
- French*
- Graphic Design & Illustration
- Journalism
- Music*
- Music - Instrumental
- Music - Vocal
- Photography, Professional
- Spanish*
- Sports Broadcasting
- Studio Arts*
- Theatre Arts*

* an asterisk indicates a program with a recommended course sequence

GPS
GUIDED PATHWAYS
SOLANO COLLEGE

# Resources

## Looking for how to apply to Solano Community College?

- Detailed instructions are available at solano.edu click "APPLY NOW!"

## Feeling lost or overwhelmed? Need help getting started? Make an appointment with one of our counselors!

- Visit us in person, or call to make an appointment!
- Main Campus (Fairfield): Building 400, Room 404; or call (707) 864-7101
- Vacaville Center: Check in at the front desk; or call (707) 863-7836
- Vallejo Center: Check-in at the front desk; or call (707) 642-8188
- Travis AFB: Visit 530 Hickam Avenue, Building 249, C-WAY; or call (707) 863-7878
- More information, and online booking is available at solano.edu/counseling

## Need help with our application process? Reach out to our admissions staff!

- Visit, call, or email, so we can answer all of your questions.
- Admissions is located on the first floor of Building 400 of the Main Campus (Fairfield)
- Or, call at (707) 646-2053 or email at admissions@solano.edu

## Visit our Career and Employment Services Center to learn more about your career choices!

- Visit in person at Building 400, Room 403, of the Main Campus (Fairfield)
- Or, call at (707) 864-7124 or email at careercenter@solano.edu

## Our Disability Services Program is here to help you!

- Visit in-person at Building 400, Room 404, of the Main Campus (Fairfield)
- Or, call at (707) 864-7136

## Are you a veteran? Contact our Veterans Affairs Center (VAC)!

- Visit in-person at Building 2700, Room 2750 of the Main Campus (Fairfield)
- Or, call at (707) 864-7105 or email at veterans@solano.edu

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SOLANO

**Job-Direct Low Unit Certificates**

Many Job-Direct certificate programs are offered specifically designed to prepare students for employment in the identified field. Not all credits earned in the Job-Direct certificate programs may be counted toward the A.A./A.S. degree or the Certificate of Achievement. Counselors, faculty, and administrators are glad to answer any questions about these programs. Requirements for the programs are listed in the corresponding sections of this catalog.

**Certificates of Achievement**

A Certificate of Achievement recognizes a student's satisfactory completion of an organized program of study. A number of certificate programs are offered for students seeking specialized training in specific fields. Students are required to complete each course within the program with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis) and to maintain a grade point average of 2.0 in program coursework. Certificate of Achievement programs differ from degree programs in that students are only required to complete the courses in the field of study; general education coursework is not required. All credits earned in a certificate program may be counted toward the A.A./A.S./AD-T Degree and, in some instances, credit for certificate courses may be transferred to four-year colleges.

To be eligible for a Certificate of Achievement, a minimum of 6 units in the field or a closely related subject must be successfully completed, with a minimum grade of C, at Solano Community College.

Students may be awarded a Certificate of Achievement based on the requirements in this Catalog, or the Catalog in effect at the time of first enrollment, or when the certificate was first offered.

**Associate Degrees**

Solano Community College offers two Associate degrees: Associate in Arts and Associate in Science. A degree may be granted upon successful completion of requirements in a major field of study, appropriate general education courses, and electives to total at least 60 semester units. Students must petition for degrees and may apply for multiple degrees.

**Associate Degrees for Transfer (AD-T)**

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an associate degree for transfer (AD-T). These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree.

California Community College students who are awarded an A.A.-T or A.S.-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

In order to earn one of these degrees, students must successfully complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students who have been awarded an A.A.-T or A.S.-T are able to complete their remaining requirements for the 120- unit baccalaureate degree within 60 semester units or 90 quarter units.

To view the most current list of Solano Community College Associate Degrees for Transfer go to www.solano.edu. For additional information on Associate Degrees for Transfer, visit adegreewithaguarantee.com or the new website starting in June 2021 icangotocollege.com.

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. Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

Students expecting to complete an ADT degree should be sure to have indicated so when applying to transfer to a CSU. Students must petition for the degree at Solano Community College Admissions and Records office. If the date falls on a weekend/holiday, then the deadline is the next business day.

PROGRAM REQUIREMENTS

**Program Length**

Most degree programs at Solano Community College can be completed in two years, assuming students take an average of 15 units per term. Certificate programs vary in length; most certificate programs require less than two years of full-time study to complete and many programs may be completed on a part-time basis. Students are advised to meet with a counselor to develop an educational plan as not all courses are offered every term.

**Total Units**

A degree requires a minimum of 60 degree-applicable semester units. A minimum of 12 units must be successfully completed, with a minimum grade of C, at Solano Community College. The student must have a 2.0 overall grade point average at the time of graduation.

**Major and Area of Emphasis**

A minimum of 18 semester units must be concentrated in a designated field of study, as outlined in one of the two- year degree programs. All courses in the major or area of emphasis must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Catalog Rights**

Graduation requirements are determined according to the Catalog in effect at the time of first enrollment at SCC. If enrollment is in any credit course and is continuous (at least one course is taken each academic year), then graduation requirements are taken from the Catalog in effect at the time of first enrollment. Students enrolled at another regionally accredited institution of higher education and meeting the SCC definition of continuous enrollment shall not lose their original catalog rights. In order to maintain catalog rights, enrollment must begin with Solano Community College. Students may select a more recent catalog for catalog rights. The requirement for continuous enrollment to maintain catalog rights was implemented in academic year 1990-91. Students with catalog rights prior to this are not required to maintain continuous enrollment to maintain their original catalog rights. These students may still elect a more recent catalog.

PETITIONING FOR A DEGREE OR CERTIFICATE

In order to receive a Degree and/or Certificate from Solano Community College it is the students' responsibility to file a completed Petition for Degree or Certificate with the Admissions and Records office during the last semester of attendance.

Petitions are accepted beginning the first day of each term through a date that is set and published in the MySolano Dates and Deadlines each term. NO PETITIONS ARE ACCEPTED AFTER THE DEADLINE.

Petitions are reviewed by Admissions and Records and students are notified of the outcome up to 3 months after the term ends. For more information or answers to questions email admissions@solano.edu.

GRADUATION CEREMONY

SCC holds a graduation ceremony once a year at the end of the spring term. Students who were awarded degrees and/or certificates in the previous summer and fall and who petitioned in spring are encouraged to walk in the graduation ceremony.

Students who were awarded degrees and/or certificates in the prior summer or fall and who petitioned in spring will be sent information regarding graduation ceremony participation mid-way through the spring term from the Student Life office. Students should direct additional questions regarding the graduation ceremony participation to the Student Life office. For more information, visit www.solano.edu/ graduation. For more information or answers to questions email admissions@solano.edu.

# Courses

## A
ADVM - Advanced Manufacturing
ACCT - Accounting
AERO - Aeronautics
ANTH - Anthropology
ART - Art
ARTH- Art History
ASL - American Sign Language
ASTR - Astronomy
ATEC - Automotive Technology
ATHL - Athletics

## B
BIO - Biology
BIOT - Biotechnology
BSOT - Office Technology/
Business Information Worker
BUS - Business

## C
CDFS - Child Development and Family
Studies
CHEM - Chemistry
CINA - Cinema
CIS - Computer Information Science
CJ - Criminal Justice
COMM - Communication Studies
COSM - Cosmetology
COUN - Counseling
CS - Computer Science

## D
DANC - Dance
DMA - Digital Media Arts
DRFT - Drafting

## E
ECON - Economics
EDUC - Education
EMT - Emergency Medical
Technician
ENGL - English
ENGR - Engineering
ESL - English as a Second Language..
ETHN - Ethnic Studies (Coming Soon)

## F
FIRE - Fire Technology
FREN - French

## G
GEOG - Geography
GEOL - Geology

## H
HED - Health Education
HIST - History
HORT - Horticulture
HS - Human Services
HUMN - Humanities

## I
IT - Industrial Technology

## J
JOUR - Journalism

## K
KINE - Kinesiology

## L
LR - Learning Resources

## M
MATH - Mathematics
MGMT - Management
MKT - Marketing
MUSC - Music

## N
NURS - Nursing
NUTR - Nutrition

## O
OCED - Occupational Education
OT - Office Technology

## P
PHIL - Philosophy
PHOT - Photography
PHSC - Physical Science
PHYS - Physics
PLSC - Political Science
PSYC - Psychology

## Q

## R
RE - Real Estate

## S
SJS - Social Justice Studies
SOC - Sociology
SPAN - Spanish
SPMD - Sports Medicine

## T
THEA - Theatre Arts
TUTR - Tutoring
TV- Television

## U

## V

## W
WATR - Water/Wastewater
WELD - Welding

## X

## Y

## Z

# Accounting

## Accounting

*Certificate of Achievement and Associate in Science*

**Program Description**

In recent years, accounting has been one of the fastest growing professions, and the monetary rewards for the individual just entering the field and those achieving corporate positions are among the highest. Accountants deal with the financial condition of a company, an individual, or an organization. An accountant is an analyst who is employed because of expertise in financial matters.

The Certificate of Achievement can be obtained upon completion of the 29-unit major. The Associate in Science can be obtained by completing the 29-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses within the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/ No Pass basis.

**Program Outcomes**

Students who earn the Accounting Associate in Science will be able to:

1. Demonstrate the use of the accounting cycle to prepare the income statement, statement of owner's equity, and balance sheet while applying the generally accepted accounting principles and concepts.
2. Analyze and evaluate managerial decisions using basic managerial accounting concepts and theory.

Students who earn the Accounting Certificate of Achievement will be able to:

1. Demonstrate the use of the accounting cycle to prepare the income statement, statement of owner's equity, and balance sheet while applying the generally accepted accounting principles and concepts.

| **REQUIRED COURSES** | **Units** |
|---|---|
| ACCT 001 Principles of Accounting - Financial | 4 |
| ACCT 002 Principles of Accounting - Managerial | 4 |
| ACCT 050 Computer Accounting | 3 |
| ACCT 176 Intermediate Accounting | 3 |
| ACCT 177 Cost Accounting | 3 |
| ACCT 183 Principles of Income Tax | 3 |
| CIS 001 Introduction to Computer Science | 3 |
| or | |
| CIS 050 Microcomputer Applications | 3 |
| CIS 066 Microsoft Word | 3 |
| CIS 073 Microsoft Excel | 3 |
| **Required Major Total units.** | **29** |

## Account Clerk

*Job-Direct Low Unit Certificate*

| **REQUIRED COURSES** | **Units** |
|---|---|
| ACCT 001 Principals of Accounting-Financial | 4 |
| BUS 097 Work Readiness | 1.5 |
| CIS 073 Microsoft Excel | 3 |
| OT 162 Ten-Key | 1 |
| **Total units** | **9.5** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# ACCT - Accounting

**ACCT 001** **4.0 Units**
**Principles of Accounting - Financial**
*C-ID: ACCT 110*
*Transferable to UC/CSU*
*Hours: 64-72 lecture*
A study and analysis of accounting as an information system, its importance and use by external users such as investors, creditors, and others making decisions. The course covers the accounting cycle, application of the generally accepted accounting principles, financial reporting, and statement analysis, including issues relating to the valuation of assets, liabilities, and equity, the recognition of revenue and expenses, cash flow, internal controls, ethics, and International Financial Reporting Standards.

**ACCT 002** **4.0 Units**
**Principles of Accounting - Managerial**
*C-ID: ACCT 120*
*Prerequisite**: ACCT 001*
*Course Advisory: Working knowledge of Excel*
*Transferable to UC/CSU*
*Hours: 64-72 lecture*
A study and analysis of how managers use accounting information in decision-making, planning, directing operations, and controlling, to include the following: terms and concepts; job order cost accounting; process cost accounting; departmental accounting; product analysis; pricing decisions; flexible budgeting; standard cost analysis; cost-volume-profit analysis; preparation of operational, capital and financial budgets; and analysis of financial reporting in manufacturing and service environments.

**ACCT 050** **3.0 Units**
**Computer Accounting**
*Prerequisite**: ACCT 001*
*Transferable to CSU*
*Hours: 48-54 lecture*
A hands-on course covering a complete computerized accounting system. Topics include a review of basic accounting concepts, preparation of business reports and graphs, and the creation of an accounting system for a company.

**ACCT 176** **3.0 Units**
**Intermediate Accounting**
*Prerequisite**: ACCT 001*
*Course Advisory: Working knowledge of Excel*
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
Accounting theory as applied to common issues faced by accountants in today's businesses. Lecture, group-study, and computer-based study emphasize the conceptual framework, the four major financial statements, footnotes, and present-value concepts. The class helps prepare the student for an entry-level position in a professional accounting career.

**ACCT 177** **3.0 Units**
**Cost Accounting**
*Prerequisite**: ACCT 002*
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
A comprehensive study and analysis of manufacturing costs as they apply to planning, controlling, and determining unit costs, inventory valuation, and income.

**ACCT 180** **3.0 Units**
**Introduction To Accounting**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
A study and analysis of the accounting cycle for a merchandising business and professional enterprises, payroll accounting, accruals and deferrals, accounting systems, error correction, and financial reporting.

**ACCT 183** **3.0 Units**
**Principles Of Income Tax**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
A comprehensive study and analysis of the principles of federal income tax applied to individual, partnership, informational, and corporate tax returns.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Administration of Justice

## Associate in Science in Administration of Justice for Transfer (ADT: A.S.-T)

**Program Description**
This program offers core and selective courses which provide the student with a base of knowledge and proficiencies in the area of criminal justice. The program operates with the cooperation and participation of local criminal justice agencies. All instructors in the program have experience in the criminal justice field. Courses are scheduled both day and evening to accommodate full-time or part-time students seeking to acquire or upgrade skills and to prepare the criminal justice student for a four-year degree in the CSU system.

The Associate in Science in Administration of Justice for Transfer is designed for students who plan to complete a bachelor's degree in Administration of Justice at a CSU campus. Students completing an Associate in Science in Administration of Justice for Transfer degree are guaranteed priority admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts the Associate in Science in Administration of Justice will be required to complete no more than 60 units after transfer to earn a bachelor's degree. The Associate in Science in Administration of Justice for Transfer degree also provides students with the learning experience on how to preserve and maintain social order by gaining critical skills in these key areas: law enforcement; corrections, probation, and parole; juvenile justice, delinquency, and juvenile corrections; criminology theory and crime control; and criminal justice leadership and administration. With this transfer degree, students will gain an understanding of both adult and juvenile justice systems, as well as the skills to apply innovative programmatic efforts. From due process to constitutional protections to the importance of case law in American criminal justice, the student will be exposed to the specific legal and ethical challenges for each branch of the U.S. criminal justice system.

**To earn the Associate in Science in Administration of Justice for Transfer, students must:**
1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Science in Administration of Justice for Transfer will be able to:
1. Demonstrate an understanding of the American Criminal Justice system and the scope of responsibilities of the various local, state, and federal law enforcement agencies beginning with arrest through parole.
2. Articulate the system's objectives, the crime problem, and role expectations of criminal justice personnel, and describe the various agencies and each subsystem within the system.
3. Describe the system's responsibilities to the community, factors in crime causation, the social implications of crime and communication barriers between the system and the community.
4. Articulate the differences between the major criminological theories of the causes of crime and how those theories relate to policies toward crime and criminal behavior.
5. Analyze legal concepts and make rational decisions about case processing.
6. Demonstrate knowledge of the rules of evidence, legal definitions, and concepts of evidentiary law. Apply basic investigative proficiencies.
7. Demonstrate critical thinking and analytical skills acquired in the social sciences in preparation for continuance of college-level education at a four-year college.

# Administration of Justice

| **REQUIRED COURSES** | **Units** |
|---|---|
| CJ 001 Introduction to Criminal Justice | 3 |
| CJ 002 Concepts of Criminal Law | 3 |
| Select Two Courses from List A | 6 |
| Select Two Courses from List B | 6 |

| **List A (select two courses)** | **Units** |
|---|---|
| CJ 011 Community Relations | 3 |
| CJ 051 Criminal Investigation | 3 |
| CJ 053 Legal Aspects of Evidence | 3 |
| CJ 056 Juvenile Procedures | 3 |

| **List B (select two courses)** | **Units** |
|---|---|
| CJ 064 Principles and Procedures of the Criminal Justice System | 3 |
| PSYC 001 Introduction to Psychology. | 3 |
| SOC 001 Introduction to Sociology | 3 |
| **Required Major Total Units** | **18** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Administration of Justice

## Criminal Justice, Corrections

*Certificate of Achievement and Associate in Science*

**Program Description**

This program offers core and selective courses which provide the student with a base of knowledge and proficiencies in the area of corrections. The program operates with the cooperation and participation of local corrections agencies. All instructors in the program have experience in the corrections field. Courses are scheduled both day and evening to accommodate full-time or part-time students seeking to acquire or upgrade skills in the corrections field.

The Certificate of Achievement can be obtained upon completion of the 30-unit major. The Associate in Science can be obtained upon completion of the 30-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/ No Pass basis.

**Program Outcomes**

Students who complete the Criminal Justice, Corrections Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate an understanding of the American Criminal Justice system and the scope of responsibilities of the various local, state, and federal law enforcement agencies beginning with arrest through parole.
2. Articulate the system's objectives, the crime problem, and role expectations of criminal justice personnel, and describe the various agencies and each subsystem within the system.
3. Describe the system's responsibilities to the community, factors in crime causation, the social implications of crime and communication barriers between the system and the community

| **REQUIRED COURSES** | **Units** |
|---|---|
| CJ 001 Introduction to Criminal Justice | 3 |
| CJ 002 Concepts of Criminal Law | 3 |
| CJ 011 Community Relations | 3 |
| CJ 051 Criminal Investigation | 3 |
| CJ 052 Investigative Report Writing | 3 |
| CJ 053 Legal Aspects of Evidence | 3 |
| CJ 058 Fundamentals of Crime and Delinquency | 3 |
| CJ 059 Interviewing and Counseling | 3 |
| 6 units from List A | 6 |
| **Required Major Total Units** | **30** |

| **List A: (Select 6 units)** | **Units** |
|---|---|
| CJ 057 Criminal Justice Career Development | 3 |
| CJ 060 Probation and Parole | 3 |
| CJ 062 Legal Aspects of Correction | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Administration of Justice

## Criminal Justice, Law Enforcement

*Certificate of Achievement and Associate in Science*

**Program Description**

This program was established with the cooperation of the Solano County Criminal Justice Advisory Committee and offers courses for both pre-service and in-service students. All instructors have experience in law enforcement, and courses are scheduled day or evening to accommodate full-time and part-time students seeking to acquire or upgrade skills in the field.

The Certificate of Achievement can be obtained upon completion of the 30-unit major. The Associate in Science can be obtained upon completion of the 30-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/ No Pass basis.

**Program Outcomes**

Students who complete the Criminal Justice, Law Enforcement Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate an understanding of the responsibilities of law enforcement, courts, and corrections, and their applicability to adults and juveniles.
2. Articulate the roles of the criminal and civil court systems.
3. Identify and describe the three proximate cause theories of attributed liability

| **REQUIRED COURSES** | **Units** |
|---|---|
| CJ 001 Introduction to Criminal Justice | 3 |
| CJ 002 Concepts of Criminal Law | 3 |
| CJ 011 Community Relations | 3 |
| CJ 051 Criminal Investigation | 3 |
| CJ 052 Investigative Report Writing | 3 |
| CJ 053 Legal Aspects of Evidence | 3 |
| CJ 058 Fundamentals of Crime and Delinquency | 3 |
| CJ 059 Interviewing and Counseling | 3 |
| 6 units from List A | 6 |
| **Required Major Total Units** | **30** |

| **List A:** (select 6 units) | **Units** |
|---|---|
| CJ 056 Juvenile Procedures | 3 |
| CJ 057 Criminal Justice Career Development | 3 |
| CJ 064 Principles and Procedures of the Criminal Justice System | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# CJ - Criminal Justice

**CJ 001** **3.0 Units**
**Introduction to Criminal Justice**
*C-ID: AJ 110*
*Course Advisory: ENGL 001*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Introduction to the characteristics of the criminal justice system in the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, responses to crime, components of the system, and current challenges to the system. The course examines the evolution of the principles and approaches utilized by the justice system and the evolving forces which have shaped those principles and approaches. Although justice structure and process is examined in a cross cultural context, emphasis is placed on the US justice system, particularly the structure and function of US police, courts, and corrections. Students are introduced to the origins and development of criminal law, legal process, and sentencing and incarceration policies.

**CJ 002** **3.0 Units**
**Concepts of Criminal Law**
*C-ID: AJ 120*
*Course Advisory: ENGL 001*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A study of the history, philosophy and development of law and various legal systems; case law and legal research; corpus delicti, mental elements, capacity to commit crimes, and defenses; classification of crimes and penalties; elements of major crimes.

**CJ 011** **3.0 Units**
**Community Relations**
*C-ID: AJ 160*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Examines the complex, dynamic relationship between the justice system and the community in addressing crime and conflict. The emphasis is on the challenges and prospects of administering justice within a diverse multicultural population. Topics covered may include crime prevention, restorative justice, conflict resolution and ethics.

**CJ 051** **3.0 Units**
**Criminal Investigation**
*C-ID: AJ 140*
*Course Advisory: CJ 001*
*Transferable to CSU*
*Hours: 48-54 lecture*
Addresses the techniques, procedures, and ethical issues in the investigation of crime, including organization of the investigative process, crime scene searches, interviewing and interrogating, surveillance, source of information, utility of evidence, scientific analysis of evidence and the role of the investigator in the trial process. Introduces the fundamentals of investigation, crime scene search and recording, collection and preservation of evidence, scientific aid, interviews and interrogation, follow-up and case preparation.

**CJ 052** **3.0 Units**
**Investigative Report Writing**
*Course Advisory: CJ 001; CJ 002; CJ 051*
*Transferable to CSU*
*Hours: 48-54 lecture*
Presents investigative report writing in criminal justice relative to police, probation, institutional and parole activities. Includes practical experience in preparing field notes, statements, and reports.

**CJ 053** **3.0 Units**
**Legal Aspects of Evidence**
*C-ID: AJ 124*
*Course Advisory: CJ 001*
*Transferable to CSU*
*Hours: 48-54 lecture*
A study of the origin, development, philosophy and constitutional basics of evidence; constitutional and procedural considerations affecting arrest, search and seizure; kinds of degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights and case studies.

**CJ 056** **3.0 Units**
**Juvenile Procedures**
*C-ID: AJ 220*
*Transferable to CSU*
*Hours: 48-54 lecture*
Presents the organization, function, and jurisdiction of juvenile agencies; the processing and detention of juveniles; juvenile case disposition; juvenile statutes and court procedures.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
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# CJ - Criminal Justice

**CJ 057** **3.0 Units**

**Criminal Justice Career Development**

*Course Advisory: CJ 001*
*Transferable to CSU*
*Hours: 48-54 lecture*

Examines criminal justice career positions, employment standards and current occupational opportunities in the field. Includes practical aspects of various jobs and provides information and practice in entrance examination taking, oral interviews, and general preparation for various occupations within the criminal justice field.

**CJ 058** **3.0 Units**

**Fundamentals of Crime and Delinquency**

*Course Advisory: CJ 001*
*Transferable to CSU*
*Hours: 48-54 lecture*

Introduction to major types of criminal behavior, patterns of career offenders, factors which contribute to the production of criminality of delinquency. Includes methods used in dealing with violators in the justice system; the changing roles of police courts and after-care process of sentence, probation, prisons, and parole; changes of the law in crime control and treatment processes.

**CJ 059** **3.0 Units**

**Interviewing and Counseling**

*Course Advisory: CJ 001*
*Transferable to CSU*
*Hours: 48-54 lecture*

Overview of the interviewing and counseling techniques available to practitioners in law enforcement, the courts, and corrections emphasizing communication and practical skills.

**CJ 060** **3.0 Units**

**Probation and Parole**

*Course Advisory: CJ 001; CJ 058*
*Transferable to CSU*
*Hours: 48-54 lecture*

Presents the philosophy and history of correctional services. A survey of the correctional sub-systems of institutions by type and function, probation concepts and parole operations. A discussion of correctional employee responsibilities as applied to offender behavior modifications through supervisory control techniques. Covers rehabilitation goals as they affect individual and intimate cultural groups in both confined and field settings.

**CJ 062** **3.0 Units**

**Legal Aspects of Correction**

*Course Advisory: CJ 058*
*Transferable to CSU*
*Hours: 48-54 lecture*

Presents the legal aspects of corrections and code provisions relative to all phases of the correctional system.

**CJ 064** **3.0 Units**

**Principles and Procedures of the Criminal Justice System**

*Course Advisory: CJ 001*
*Transferable to CSU*
*Hours: 48-54 lecture*

A detailed study of the role and responsibility of each sub-system within the criminal justice system; an examination of the philosophy, history, structure, operation and interrelation of each sub-system component; a description of procedure from initial entry of the individual into the system to the final disposition.

**CJ 070A** **3.0 Units**

**Forensic Crime Scene Investigation - Basic**

*Transferable to CSU*
*Hours: 48-54 lecture*

An introduction to the basic methods and processes used during a forensic examination of a crime scene. This course includes topics such as crime scene and evidence photography, methods of searching for and determining items of evidentiary value, scene sketching and measuring techniques, best practices for evidence collection and packaging, establishing chain of custody, scene integrity, field processing techniques for developing forensic evidence, and crime scene report writing. *This course is intended for students seeking a career in forensic science, crime scene investigation, or law enforcement. Field trips may be offerred to labs at local or regional forensic labs, coroner's office, or related law enforcemnt venues.*

**CJ 070B** **3.0 Units**

**Forensic Crime Scene Investigation - Advanced**

*Prerequisite**: CJ 070A*
*Transferable to CSU*
*Hours: 48-54 lecture*

Advanced forensic examination techniques for crime scene and evidence examination. This course includes topics such as blood spatter reconstruction, shooting trajectory and reconstruction, forensic vehicle examinations, collection of forensic evidence at autopsies, nighttime photography, and crime scene court testimony. *This course is intended for students seeking a career in forensic science, crime scene investigation, or law enforcement.*

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# CJ - Criminal Justice

**CJ 080** **3.0 Units**

**The Criminal Justice System Viewed Through a Multi-Cultural Lens**

*Transferable to CSU*

*Hours: 48-54 lab*

Examines the interaction of law enforcement with various cultures in their respective communities with emphasis on intercultural communications and historical interactions with diverse cultures, races, ethnicities, genders and sexual orientations.

**CJ 082** **3.0 Units**

**Victimology: Victims and The Criminal Justice System**

*Transferable to CSU*

*Hours: 48-54 lab*

A study of crime victims and their interaction with various components of the criminal justice system focusing on the victim's experience within the system. Students will examine data research, various methodologies and victim precipitation theories. The tangible and intangible costs of victimization will also be examined as well as victim services and current trends in the field of victimology.

# Advanced Manufacturing

## Automation Technology

*Certificate of Achievement and Associate in Science*

**Program Description**

The Automation Technology degree program provides an introduction to industrial automation including digital electronic, process control and programming of PLCs, robotics and data acquisition systems (SCADA). The program examines applications and examples of automated manufacturing systems including both the theory and function of digital and industrial electronics, hydraulics and pneumatics, robotics systems, digital programming languages and alarm management. Students completing this degree will be able to describe and apply current safety rules and regulations while working on various manufacturing and automation systems. Students will also be able to configure and program manufacturing systems and modules including Programmable Logic Controllers (PLCs), Human Machine Interfaces (HMIs), and industrial robots. Finally, students will demonstrate an understanding of electrical systems and devices related to manufacturing and automation systems. Career opportunities for those obtaining this degree include maintenance technician, automation technician, industrial machinery mechanic, electronics technician, electro-mechanical technician, or as a robotics technician.

The Associate in Science can be obtained by completing the 27-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses within the major must be completed with a minimum grade of C or P if taken on a Pass/No Pass basis. The Certificate of Achievement can be obtained upon completion of the 27-unit major. All courses within the major must be completed with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**

Students who complete the Automation Technology Certificate of Achievement/Associate in Science will be able to:

1. Describe and apply current safety rules and regulations while working on various manufacturing and automation systems.
2. Configure and program manufacturing systems and modules including Programmable Logic Controllers (PLCs), Human Machine Interfaces (HMIs), and industrial robots.
3. Demonstrate an understanding of electrical systems and devices related to manufacturing and automation systems

| **REQUIRED COURSES** | **Units** |
|---|---|
| CIS 001 Introduction to Computer Science | 3 |
| IT 101 Introduction to Mechatronics | 3 |
| IT 151 Vocational Mathematics | 3 |
| ADVM 121 Electronics | 3 |
| ADVM 162 Robotic Manufacturing Systems | 3 |
| ADVM 163 Advanced Robotics Manufacturing Systems | 3 |
| ADVM 164 Programmable Logic Controllers | 3 |
| ADVM 165 Advanced Programmable Logic Controllers | 3 |
| Three units from Elective List | 3 |
| **Required Major Total Units** | **27-28** |

| **Elective List (select three units)** | **Units** |
|---|---|
| ADVM 132 Principles of Fluid Power Systems | 3 |
| ADVM 142 Principles of Electrical Machinery | 3 |
| ADVM 166 CNC Programming | 3 |
| ADVM 167 Advanced CNC Programming | 3 |
| DRFT 151 3D Modeling with Fusion 360 | 1.5 |
| IT 174 Making Things 4 – Basic Electronics | 1 |
| OCED 070 Occupational Soft Skills | 1.5 |
| OCED 090 Occupational Work Experience | 1-3 |

*Consult with your **counselor** for guidance on custom course pathway*
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# Advanced Manufacturing

## Maintenance Technician

*Certificate of Achievement*

**Program Description**

The Maintenance Technician program introduces the student to basic electrical and mechanical components used in basic manufacturing systems. Topics covered include functional descriptions, physical properties and operation of electrical and mechanical components and devices. Industrial components and preventative maintenance requirements are also investigated. Students receive hands-on practical experience in the use and application of basic electrical instruments and mechanical measuring devices. An emphasis is placed on safe work habits and procedures, systematic preventive maintenance, localization and correction of malfunctions, and troubleshooting techniques

The Certificate of Achievement can be obtained by completing the 18-unit major. All courses for the major must be completed with a minimum grade of C or a grade of P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Maintenance Technician Certificate of Achievement will be able to:

1. Describe and apply current safety rules and regulations while working on various industrial equipment and machinery.
2. Understand the physical operation of electro-mechanical components such as AC and DC motors, solenoids, relays and various sensors used in basic manufacturing systems.
3. Describe and perform troubleshooting, preventative maintenance and documentation methods associated with basic manufacturing systemstanding of electrical systems and devices related to manufacturing and automation systems

| **REQUIRED COURSES** | **Units** |
|---|---|
| IT 101 Introduction to Mechatronics | 3 |
| IT 151 Vocational Mathematics | 3 |
| ADVM 130 Principles of Mechanical Power Systems | 3 |
| ADVM 132 Principles of Fluid Power Systems | 3 |
| ADVM 140 Principles of Industrial Electrical Systems | 3 |
| ADVM 142 Principles of Electrical Machinery | 3 |
| **Required Major Total Units** | **18** |

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# Advanced Manufacturing

## Mechatronics

*Certificate of Achievement and Associate in Science*

**Program Description**

Mechatronics is the study of electronics, mechanics, electrical, and control systems to produce a well-rounded technician capable of handling the complex maintenance and operations tasks demanded by modern manufacturing, packaging, processing, transportation, and communication industries.

Individuals with well-rounded knowledge of how electromechanical and automated systems work together are in high demand and qualify to enter occupations such as a technician or specialist in industrial maintenance, automation, engineering, or in testing/research.

The Associate in Science Degree can be obtained by completing the 37-unit major, the general education requirements, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or P if taken on a Pass/No Pass basis. The Certificate of Achievement can be obtained upon completion of the 37-unit major. All courses within the major must be completed with a minimum grade of C or P if taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Mechatronics Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate safe work habits around mechanical and electrical industrial equipment.
2. Troubleshoot and solve basic problems involving electrical wiring, connections, and distribution at both the component level.
3. Troubleshoot and solve basic problems involving mechanical and fluid power systems.
4. Demonstrate proficiency in relating and integrating math and science concepts with basic systems found in industry.
5. Demonstrate proficiency in integrating computer use with industrial machinery and control systems

| **REQUIRED COURSES** | **Units** |
|---|---|
| CIS 001 Introduction to Computer Science | 3 |
| IT 101 Introduction to Mechatronics | 3 |
| IT 151 Vocational Mathematics | 3 |
| ADVM 121 Electronics | 4 |
| ADVM 130 Principles of Mechanical Power Systems | 3 |
| ADVM 132 Principles of Fluid Power Systems | 3 |
| ADVM 140 Principles of Industrial Electrical Systems | 3 |
| ADVM 142 Principles of Electrical Machinery | 3 |
| ADVM 162 Robotic Manufacturing Systems | 3 |
| ADVM 164 Programmable Logic Controllers | 3 |
| 6 units from List A | 6 |
| **Required Major Total Units** | **36-37** |

| **List A: (select 6 units)** | **Units** |
|---|---|
| DRFT 079 Blueprint Reading | 3 |
| DRFT 151 3D Modeling with Fusion 360 | 1.5 |
| IT 140 Industrial Materials | 3 |
| IT 174 Making Things 4 – Basic Electronics | 1 |
| ADVM 163 Advanced Robotics Manufacturing Systems | 3 |
| ADVM 165 Advanced Programmable Logic Controllers | 3 |
| ADVM 166 CNC Programming | 3 |
| OCED 070 Occupational Soft Skills | 1.5 |
| OCED 090 Occupational Work Experience | 1-6 |

*Consult with your **counselor** for guidance on custom course pathway*

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# ADVM - Advanced Manufacturing

**ADVM 121** **3.0 Units**
**Electronics**
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
Introduces the topics of analog and digital electronics. Studies include an introduction to DC and AC circuitry as well as specific analog and digital electronic components, circuits, and instruments used in the operation, installation, and troubleshooting of electronic systems. (Formerly MT 121)

**ADVM 130** **3.0 Units**
**Principles of Mechanical Power Systems**
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
Introduces the topic of mechanical power systems and mechanical power transmission as it applies to mechatronics. Studies include mechanical theory, mechanical power, thermal systems, hand tools, precision measuring instruments, and mathematics applied to mechanical power systems. Includes studies in manufacturing technology using modern manufacturing equipment and software simulators. (Formerly MT 130)

**ADVM 132** **3.0 Units**
**Principles of Fluid Power Systems**
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
Introduces the topic of hydraulic and pneumatic systems as they apply to mechatronics. Studies include fluid power systems theory, pumps, actuators, accumulators, filters, meters, valves, control devices, and mathematics applied to fluid power systems. Includes studies in manufacturing technology using modern manufacturing equipment and software simulators. (Formerly MT 132)

**ADVM 140** **3.0 Units**
**Principles of Industrial Electrical Systems**
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
Introduces the topic of DC, single-phase and three-phase AC circuits as they apply to mechatronics. Introduces commercial/industrial electrical installations that meet National Electrical Code requirements. Students will complete labs and wiring projects. Lab, electrical and worksite safety is emphasized. (Formerly MT 140)

**ADVM 142** **3.0 Units**
**Principles of Electrical Machinery**
*Prerequisite**: ADVM 140*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
Introduces the topic of electrical machinery as it applies to mechatronics. Studies include direct-current and alternating- current generators, alternators, transmission equipment, and motors. Students will complete labs and electrical machinery projects. Lab, electrical and worksite safety is emphasized. (Formerly MT 142)

**ADVM 162** **3.0 Units**
**Robotic Manufacturing Systems**
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
Presentation of physical principles applied to automated manufacturing systems. Students will develop solutions to manufacturing problems using robots, programmable logic controllers (PLC) and computer numerical control (CNC) manufacturing machines. Students will also apply safety-oriented work habits to the completion of laboratory projects while working individually and in groups. (Formerly MT 162)

**ADVM 163** **3.0 Units**
**Advanced Robotics Manufacturing Systems**
*Prerequisite**: ADVM 162*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
Advanced programming, vision recognition systems, PLC and HMI integration, and hardware concepts associated with industrial robots. Students in this course will program several robots to work together and with other common automation systems to increase the efficiency and throughput of industrial automation processes. Robot safety procedures including Dual Check Safety (DCS) and other industry standards will be emphasized throughout the course. (Formerly MT 163)

**ADVM 164** **3.0 Units**
**Programmable Logic Controllers**
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
Introduces the student to process control via Programmable Logic Controllers (PLC's). Content includes the popular Allen- Bradley PLC systems and the most common command instructions for the RSLogix 5, RSLogix 500, RSLogix 5000, Micrologix 1000, SLC5 and SLC 500 as well as ControlLogix processors. Troubleshooting and electrical safety are emphasized. (Formerly MT 164)

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# ADVM - Advanced Manufacturing

**ADVM 165** **3.0 Units**

**Advanced Programmable Logic Controllers**

*Prerequisite**: ADVM 164*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*

For PLC (Programmable Logic Controllers) programmers, electricians, maintenance and instrumentation technicians, automation students and professionals that have some experience with basic PLC programming. Topics include Tag-Based programming with ControlLogix PLCs along with the RSLogix 5000 programming suite, process control methods, variable frequency drives, SCADA (Supervisory Control and Data Aquisition), and HMI's (Human Machine Interface). (Formerly MT 165)

**ADVM 166** **3.0 Units**

**CNC Programming**

*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*

Operational and theory of Computer Numerical Control (CNC) machinery, with a focus on skill building, safety practices and maintenance to work as an operator. Includes integration of Computer-Aided Design and Computer-Aided Manufacturing (CAM) as well as manual programming techniques. (Formerly MT 166)

**ADVM 167** **3.0 Units**

**Advanced CNC Programming**

*Prerequisite**: ADVM 166 and DRFT 151*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*

Exposes the beginning CNC Machinist to advanced programming techniques for creating basic macro programs, tool and work probing methods, sub programs, sub-routines, 2-axis lathes, 3 + 2 axis mill programming, and 5 axis mill simultaneous programming. Includes preparatory skill and knowledge development in preparation for Haas CNC Operator and/or National Institute for Metalworking Skills (NIMS) certification exams. (Formerly MT 167)

# IT - Industrial Technology

**IT 050** **3.0 Units**
**Alternative Energy Technologies**
*Transferable to CSU*
*Hours: 48-54 lecture*
Introduces the topics of power generation, transmission, and consumption of both conventional and alternative energy sources. Students will be exposed to an in-depth analysis of the design and use of fossil fuel based systems and then compare those systems to alternatives. Energy use in transportation, industrial, commercial, and residential applications will be examined.

**IT 101** **3.0 Units**
**Introduction to Mechatronics**
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
Provides an understanding of how mechatronic technology in our lives works using only basic science and math concepts. This course explores basic mechatronic systems commonly found in industry and focuses on their principles of operation, histories, and relationships to one another. Topics will include an exploration of and science behind basic mechanics, fluid power, electrical power, and control systems. Students will learn about these mechatronic technologies through lecture, classroom discussion, and laboratory experiments and projects.

**IT 110** **3.0 Units**
**Modern Welding**
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
Acquaints the student with MIG and TIG welding methods and knowledge necessary to weld in all positions utilizing the mild steel, low hydrogen electrodes, metal inert gas and tungsten inert gas techniques.

**IT 111** **3.0 Units**
**Modern Welding**
*Prerequisite**: IT 110*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
Aquaints the student with MIG and TIG welding methods and knowledge necessary to weld in all positions utilizing the mild steel, low hydrogen electrodes, metal inert gas and tungsten inert gas techniques.

**IT 120** **1.0 to 3.0 Units**
**Electrical Safety**
*Non-transferable to UC or CSU*
*Hours: 16-54 lecture*
A survey of the proper use, handling, and hazards associated with electrical and electronic equipment. The student will be introduced to the current generally accepted (National Electrical Safety Code) safety practices and procedures associated with power transmission, industrial, and consumer electrical and electronic equipment. This is an Open Entry/Open Exit course. Students may take this course up to the maximum number of units over multiple semesters.

**IT 140** **3.0 Units**
**Industrial Materials**
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
A broad overview of the characteristics and comparative qualities of naturally occurring, alloyed and man-made materials used in industry. Testing and practical use of materials are required.

**IT 151** **3.0 Units**
**Vocational Mathematics**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
Focuses on mathematical functions, plane and solid geometry, measurement systems, algebra, and trigonometry applied to specific vocational areas.

**IT 171** **1.0 Unit**
**Making Things 1 - 3D Technology**
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 8-9 lab*
A hands-on course using 3-Dimensional Computer Aided Drafting (CAD) tools to create objects with a 3D printer and Computer Numeric Controlled (CNC) machine. Students will gain a basic understanding of design to product workflow as well as the basics of 3D printing and CNC machines, including applications and use in industry.

**IT 172** **1.0 Unit**
**Making Things 2 - 2D Technology**
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 8-9 lab*
A hands-on course using 2-Dimensional Computer Aided Drafting (CAD) tools to create objects with a laser cutter and vinyl cutter. Students will gain a basic understanding of safety, design, and project workflow as well as the basics of each machine's uses in industry.

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# IT - Industrial Technology

**IT 173** **1.0 Unit**

**Making Things 3 - Tool Use and Safety**

*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 8-9 lab*

Introduction to Maker Space terminology and safety standards for hand and power tools in a laboratory setting. Students learn proper usage and applications of common hand and power tools pertinent to Maker Space laboratory and some industrial settings.

**IT 174** **1.0 Unit**

**Making Things 4 - Basic Electronics**

*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 8-9 lab*

A hands-on introduction to basic electronics and microcontrollers used in a Maker Space environment. Students will learn basic soldering techniques, electronic terminology and circuitry, and simple programming of devices such as Arduino and Raspberry Pi.

**IT 175** **1.5 Units**

**Maker Space Technology Lab**

*Prerequisite**: IT 171, IT 172, IT 173, and IT 174*
*Non-transferable to UC or CSU*
*Hours: 72-81 lab*

Utilize the full range of Maker Space equipment to create and design projects in the Maker Space laboratory. Students will create designs using instructor-given parameters in order to gain more skill on machines used in IT 171, IT 172, IT 173 and IT 174.

**IT 176** **1.5 Units**

**Maker Space Technology Lab II**

*Prerequisite**: IT 175 and IT 179*
*Non-transferable to UC or CSU*
*Hours: 72-81 lab*

Utilize the full range of Maker Space equipment to create and design projects in the Maker Space laboratory. An emphasis will be given to multiple tooled projects (3D printing and electronics or laser cutting and woodworking, for example). Students will create designs using instructor-given parameters, plan projects and analyze results.

**IT 179** **1.0 Unit**

**Making Things 5 - Sewing Fundamentals**

*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 8-9 lab*

Introduces students to industry sewing techniques with an emphasis on safe and appropriate operation of consumer and industrial sewing machines and tools. Students produce projects by applying the techniques taught in the course as a foundation to the understanding of pattern construction, manufacturing, and production. Designed for students with little to no sewing experience.

**IT 181** **3.0 Units**

**Introduction to Drones**

*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*

An introduction to Drones and Unmanned Aerial Vehicles. Provides a starting point to use drones for multiple purposes and careers. Topics include the basics of aviation and flight, classes of drone systems, applications, required equipment, maintenance, mission planning, control systems, recovery systems and regulations. Intended for those looking to become licensed to use drones for commercial purposes such as aerial cinematography, photography, surveying, and imaging.

**IT 182** **3.0 Units**

**Basic Drone Operations**

*Prerequisite**: IT 181*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*

Basic flight operation, drone controls, and equipment as well as safety procedures. Students will understand the varied uses of unmanned aviation vehicles (UAV) and learn the Federal Aviation Administration (FAA) guidelines for commercial usage.

**IT 183** **3.0 Units**

**Drone Photography and Video**

*Prerequisite**: IT 182*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*

Covers the use of cameras and sensors to capture and analyze aerial photos and video. Camera and sensor mounting, settings, accessories, image analysis, options, software, and best practices will be explored.

**IT 184** **1.5 Units**

**Remote Pilot Exam Prep**

*Prerequisite**: IT 182*
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture.*

Covers the aeronautical knowledge required to fly drones for commercial purposes. Prepares the student to take the Federal Aviation Administration (FAA) Part 107 examination.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Aeronautics

## Airframe and Powerplant Maintenance Technician

*Certificates of Achievement and Associates in Science*

**Program Description**

Practical and theoretical knowledge in basic maintenance techniques, plus the special requirements of airframe, powerplant, or airframe & powerplant work. Upon satisfactory completion of the required courses, the student is eligible to take the Federal Aviation Administration written oral and practical examination for airframe, powerplant, or airframe and powerplant license.

A focused Airframe or Powerplant Certificate of Achievement can be obtained upon completion of the corresponding 41-unit major. A focused Airframe or Powerplant Associate in Science can be obtained upon completion of the corresponding 41-unit major, General Education, and electives as needed to complete a minimum of 60 units.

The combination Airframe & Powerplant Maintenance Technician Certificate of Achievement can be obtained upon completion of the 62-unit Airframe and Powerplant Maintenance major. The combination Associate in Science can be obtained upon completion of the 62-unit Airframe and Powerplant Maintenance major and General Education.

The Federal Aviation administration (FAA) requires 1150 hours (four full semesters) of instruction to complete either the Airframe Maintenance curriculum or Powerplant Maintenance Curriculum (An additional 750 hours, two full semesters for the Combination of Airframe and Powerplant Maintenance Curriculum). All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Airframe Maintenance Technician, Powerplant Maintenance Technician or Airframe & Powerplant Maintenance Technician Certificate of Achievement or Associate in Science will be able to:

1. Demonstrate proficient, entry-level aviation maintenance skills in airframe, powerplant, or airframe and powerplant with emphasis on aircraft engines, aircraft structures, and aircraft systems.
2. Have a working knowledge to inspect, maintain, service and repair aircraft electrical, engine (piston and turbine), airframe structure, flight control, hydraulic, pneumatic, fuel, navigation and instrument systems and other aircraft components specified by Federal Aviation Regulation Part 147.
3. Obtain the knowledge and skills to pass oral, practical and written Federal Aviation Administration (FAA) examination in general and airframe/powerplant subjects.

| **AIRFRAME REQUIRED COURSES** | **Units** |
|---|---|
| AERO 102 Aviation Maintenance Technician - Airframe Structures | 10 |
| AERO 105 Aviation Maintenance Technician - Airframe Systems | 10 |
| AERO 118 Aviation Maintenance Technician - FAA Airframe Test Preparation | 1 |
| General Required Courses | 20 |
| **Required Major Total units** | **41** |

| **POWERPLANT REQUIRED COURSES** | |
|---|---|
| AERO 106 Aviation Maintenance Technician - Powerplant Reciprocating Engines | 10 |
| AERO 107 Aviation Maintenance Technician - Powerplant Turbine Engines | 10 |
| AERO 119 Aviation Maintenance Technician - FAA Powerplant Test Preparation | 1 |
| General Required Courses | 20 |
| **Required Major Total units** | **41** |

| **GENERAL REQUIRED COURSES** | **Units** |
|---|---|
| AERO 055 Aviation Maintenance Technician - General Aircraft Subjects | 10 |
| AERO 103 Aviation Maintenance Technician - Basic Electricity and Hydraulics | 10 |

| **AIRFRAME AND POWERPLANT REQUIRED COURSES** | **Units** |
|---|---|
| Complete all courses | 62 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# AERO - Aeronautics

**AERO 055** **10.0 Units**
**Aviation Maintenance Technician - General Aircraft Subjects**
*Transferable to CSU*
*Hours: 80-90 lecture, 240-270 lab*
Presents the fundamentals necessary for the advanced study in Aeronautics. It will define the history of aviation and powerplant operation, and the study of flight: aircraft weight and balance, ground operation and servicing, mathematics, maintenance forms and records, basic physics , maintenance publication, and mechanic privileges and limitation. Safety is stressed throughout the course. In addition, this course is a study of the methods and processes used in the production of an aircraft, including shop safety. The course includes fundamentals in the use of hand tools and power equipment, aircraft drawings, cleaning, corrosion control; and the processes used by the manufacturers for aircraft construction.

**AERO 102** **10.0 Units**
**Aviation Maintenance Technician - Airframe Structures**
*Non-transferable to UC or CSU*
*Hours: 80-90 lecture, 240-270 lab*
Presents the application of fundamental methods, techniques, and practices used in aircraft inspection, maintenance, and repair. The course includes fundamentals of shop safety, wood structures, fabric covering, finishes, composite structures, plastics, sheet-metal structures, welding, assembly and rigging, and airframe inspection.

**AERO 103** **10.0 Units**
**Aviation Maintenance Technician - Basic Electricity and Hydraulics**
*Non-transferable to UC or CSU*
*Hours: 80-90 lecture, 240-270 lab*
A study of fluid control systems and components with emphasis on design, maintainability, testing and system repair. The course includes the fundamentals of hydraulic fluids, fluid carrying lines and fittings, inspection, servicing and testing of pneumatic and hydraulic systems. The course also presents theory and application of direct and alternating current as related to aircraft electrical components and systems.

**AERO 105** **10.0 Units**
**Aviation Maintenance Technician - Airframe Systems**
*Non-transferable to UC or CSU*
*Hours: 80-90 lecture, 240-270 lab*
A detailed study of the fundamentals of fabrication, maintenance, and repair of aircraft airframe systems. The course includes study of all basic systems which include: landing gear, hydraulic, pneumatic, cabin atmospheric control, flight instrumentation, communication, navigation, fuel storage and delivery, ice and rain detection, prevention and removal as well as fire detection and protection systems.

**AERO 106** **10.0 Units**
**Aviation Maintenance Technician - Powerplant Reciprocating Engines**
*Non-transferable to UC or CSU*
*Hours: 80-90 lecture, 240-270 lab*
Designed to acquaint the student with reciprocating engines. The course includes study in the fundamentals of basic engine design, types and materials of construction, nomenclature, repair, overhaul and servicing, maintainability and reliability concepts.

**AERO 107** **10.0 Units**
**Aviation Maintenance Technician - Powerplant Turbine Engines**
*Non-transferable to UC or CSU*
*Hours: 80-90 lecture, 240-270 lab*
Presents a study of the theory, operation, maintenance and repair of the turbine engine and related systems. It gives the student practical “hands on” experience that will satisfy future employment and FAA requirements.

**AERO 118** **0.5 to 1.5 Units**
**Aviation Maintenance Technician - FAA Airframe Test Preparation**
*Non-transferable to UC or CSU*
*Hours: 24-81 lab*
Taken during the final semester of a student’s enrollment in the Aeronautics program. The course consists of a comprehensive oral, practical, and written examination of all material covered in the Airframe Program for the purpose of verifying the students’ readiness to pass the Federal Aviation Administration Airframe Examinations. Students may take this course up to the maximum number of units over multiple semesters. *This is an Open Entry/ Open Exit course.*

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# AERO - Aeronautics

**AERO 119** **0.5 to 1.5 Units**
**Aviation Maintenance Technician -**
**FAA Powerplant Test Preparation**
*Non-transferable to UC or CSU*
*Hours: 24-81 lab*
Taken during the final semester of a student's enrollment in the Aeronautics program. The course consists of a comprehensive oral, practical, and written examination of all material covered in the Powerplant Program for the purpose of verifying the students readiness to pass the Federal Aviation Administration Powerplant Examinations. Students may take this course up to the maximum number of units over multiple semesters. *This is an Open Entry/ Open Exit course.*

**AERO 150** **0.5 to 1.5 Units**
**Aviation Maintenance Technician -**
**FAA Special Projects and Course Enhancement**
*Course Advisory: Any Solano College Aeronautics course (AERO 055-119); or previous training/experience in aeronautics*
*Non-transferable to UC or CSU*
*Hours: 24-81 lab*
This course gives Aeronautics students a chance to make up time lost for FAA certificate and/or to work on special projects required by FAA to bring students in line with new FAA FAR Part 66 requirements. Students may take this course up to the maximum number of units over multiple semesters. *This is an Open Entry/Open Exit course.*

**AERO 151** **0.5 to 1.5 Units**
**Aviation Maintenance Technician -**
**FAA Special Projects - Powerplant Enhancement**
*Non-transferable to UC or CSU*
*Hours: 24-81 lab*
Gives Aeronautics students a chance to make up time lost for FAA certificate and/or to work on special projects required by FAA to bring students in line with new FAA FAR Part 66 requirements. Students may take this course up to the maximum number of units over multiple semesters. *This is an Open Entry/Open Exit course.*

# Anthropology

## Associate in Arts in Anthropology for Transfer (ADT: AA-T)

**Program Description**

This program emphasizes the development and diversity of, and adaptations in, human behavior and biology. Students in this program may study a variety of anthropological subfields, including Biological, Cultural, and Archaeology. In addition to acting as a path for successful transfer to an institution offering a baccalaureate degree in Anthropology, the Associate in Arts in Anthropology for Transfer degree provides students pursuing any baccalaureate degree with basic skills in critical analysis, application of the scientific method, and cross-cultural understanding.

Upon completion of the Associate in Arts in Anthropology for Transfer, students will be prepared to transfer to a CSU undergraduate Anthropology program. Students completing the transfer degree are guaranteed priority admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accept them into an Anthropology major will be required to complete no more than 60 units after transfer to earn the bachelor's degree.

**To earn the Associate in Arts in Anthropology for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**

Students who complete the Associate in Arts in Anthropology for Transfer degree, will be able to:

1. Demonstrate an understanding of anthropology as a science, in particular with regard to major theories, methods, and applications.
2. Demonstrate an understanding of human biological diversity, and be able to discuss processes responsible for such variation.
3. Demonstrate an understanding of human cultural diversity, and be able to discuss processes responsible for such variation.

| **REQUIRED COURSES** | **Units** |
|---|---|
| ANTH 001 Introduction to Biological Anthropology | 3 |
| ANTH 001L Biological Anthropology Laboratory | 1.5 |
| ANTH 002 Introduction to Cultural Anthropology | 3 |
| ANTH 007 Introduction to Archaeology | 3 |
| MATH 011 Elementary Statistics | 4 |
| 3-5 units from List A | 3-5 |
| 3-5 units from List B | 3-5 |
| **Required Major Total units** | **20.5-23.5** |

| **List A (select one of the options: 3-5 units)** | **Units** |
|---|---|
| *Option 1:* | |
| BIO 004 Human Anatomy | 5 |
| *Option 2:* | |
| PSYC 004 Research Methods in Behavioral Science | 3 |
| *Option 3:* | |
| GEOL 001 Physical Geology | 3 |
| GEOL 002 Geology Laboratory | 1 |

| **List B (select 3-5 units)** | **Units** |
|---|---|
| Any List A option not already used | 3-5 |
| ANTH 006 Magic, Witchcraft, and Religion | 3 |
| ANTH 024 Native Americans and Social Justice | 3 |
| COMM 012 Intercultural Communication | 3 |
| GEOG 002 Cultural Geography | 3 |
| PSYC 007 Cross-Cultural Psychology | 3 |
| SOC 001 Introduction to Sociology | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# ANTH - Anthropology

**ANTH 001** **3.0 Units**

**Introduction to Biological Anthropology**

*C-ID: ANTH 110*
*Course Advisory: ENGL 001*
*General Education: SCC: Area C; IGETC: Area 5B; CSU: Area B2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

An introduction to the science of biological anthropology; covering the concepts, methods of inquiry, and scientific explanations of biological evolution and their application to the human species. Topics to be covered will include: the scientific method, genetics, principles and mechanisms of biological evolution, modern human variation and the race concept, biocultural adaptations, primate classification, comparative primate anatomy and behavior, and the fossil evidence for human evolution.

**ANTH 001L** **1.5 Units**

**Biological Anthropology Laboratory**

*C-ID: ANTH 115L*
*Prerequisite**: ANTH 001 (may enroll concurrently)*
*General Education: IGETC: Area 5C; CSU: Area B3*
*Transferable to UC/CSU*
*Hours: 8-9 lecture, 48-54 lab*

An introductory laboratory course designed to familiarize students with the methods and materials of biological anthropology, and intended to be a companion course to ANTH 001 (Biological Anthropology). This course provides hands-on experience with genetics exercises as well as the skeletal materials of modern humans, non-human primates, and fossil hominins. Other topics discussed include the scientific method, sources of biological variation (with special focus on variation in humans and non-human primates) and the forces of evolution, biological classification of the primates, and non-human primate behavior. *A field trip may be required.*

**ANTH 002** **3.0 Units**

**Introduction to Cultural Anthropology**

*C-ID: ANTH 120*
*Course Advisory: ENGL 001*
*General Education: SCC: Area E, Area F; IGETC: Area 4; CSU: Area D; SCC Cross-Cultural Graduation Requirement*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

An introduction to the anthropological study of human culture; covering anthropological concepts such fieldwork, holism, the comparative method, cultural relativism, the nature of culture and cultural identity, and research ethics. Topics will include: subsistence patterns, political organizations including social inequality, kinship and family, communication, supernatural belief systems, gender and sexuality, art, culture change including globalization, and applied anthropology.

**ANTH 006** **3.0 Units**

**Magic, Witchcraft, and Religion**

*Course Advisory: ENGL 001*
*General Education: SCC: Area E, Area F; IGETC: Area 4; CSU: Area D; SCC Cross-Cultural Graduation Requirement*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

A cross-cultural, multi-cultural examination of the forms and functions of supernatural belief systems and associated rituals that have developed in various societies. Basic anthropological concepts and methodologies will be introduced and applied to the assessment and analysis of selected cultural and religious traditions. This course also examines the general functions of ritual and mythology in reinforcing cultural ideals and ethics. Emphasis will be placed on understanding religious belief systems within their given social contexts.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# ANTH - Anthropology

**ANTH 007 3.0 Units**

**Introduction to Archaeology**

*C-ID: ANTH 150*
*Course Advisory: ENGL 001*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

An introduction to the study of the concepts, theories, methods, and data of archaeology that contribute to our knowledge of human cultures. The course includes a discussion of the nature of scientific inquiry; the history and interdisciplinary nature of archaeological research; dating techniques; methods of survey, excavation, analysis, and interpretation; cultural resource management; professional ethics; and selected cultural sequences. Several key archaeological sites will be covered and will serve to illustrate central archaeological theories and methods.

**ANTH 024 3.0 Units**

**Native Americans and Social Justice**

*Course Equivalent: ETHN 024*
*Course Advisory: ENGL 001*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D, Area F; CSU Ethnic Studies*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

This introductory course is a comparative and interdisciplinary examination of the experiences of Indigenous peoples throughout the Americas, with a focus on Native North American and Native Amazonian groups. Using the lens of ethnic studies, and considering the contributions of anthropology, history, and human rights studies, we will examine both historical and contemporary Native American struggles for social justice, with a focus on social movements since the 1960s. Students will analyze these movements and Native American history through an intersectional analysis that interrogates categories of identity and power, including race, ethnicity, culture and culture change, religion, and gender. This course also explores a range of theoretical concepts and social processes, including ethnocentrism, sovereignty and self-determination, citizenship, religion and spirituality, and human rights. With an emphasis on the voices of Native American activists and writers, we will pay special attention to historical and contemporary policies that have affected Native American land use, religion, and language.

# Art

## Associate in Arts in Studio Arts for Transfer (ADT: A.A.-T)

**Program Description**

This program provides the academic and practical experience to prepare students for a career, or further education at a four-year institution, in studio art. The program is designed for students to develop visual skills in a variety of art media.

The Associate in Arts in Studio Arts for Transfer is especially designed for students who plan to complete a bachelor's degree in Studio Art at a CSU campus. Students completing an Associate in Arts for Transfer degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts the A.A. degree for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree also prepares students for studio art programs at other four-year institutions, but does not come with the same guarantees. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

**To earn the Associate in Arts in Studio Arts for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes:**

Students who complete the Associate in Arts in Studio Arts for Transfer will be able to:

1. Apply appropriate materials and techniques to solve creative problems.
2. Apply composition strategies to create visually unified and compositionally effective works of art.
3. Utilize appropriate language and approaches to create, analyze and critique conceptually effective works.

| **REQUIRED CORE** | **Units** |
|---|---|
| ARTH 012 Western Art, Renaissance to Contemporary | 3 |
| ART 006 Design Principles in 2-Dimensions | 3 |
| ART 008 Design Principles in 3-Dimensions | 3 |
| ART 014 Drawing - Beginning | 3 |
| One course from List A | 3 |
| Three courses from List B | 9 |
| **Required Major Total units** | **24** |

| **List A: (select one course)** | **Units** |
|---|---|
| ARTH 011 Western Art, Prehistory through Middle Ages | 3 |
| ARTH 021 Asian Art | 3 |
| ARTH 025 African, Oceanic, Ancient and Indigenous American Art | 3 |
| ARTH 031 Modern Art | 3 |

| **List B: (select three courses)** | **Units** |
|---|---|
| **Drawing: (only one may be chosen)** | |
| ART 004 Life Drawing - Beginning | 3 |
| ART 015 Drawing - Intermediate | 3 |
| **Mixed Media (may choose up to 3 courses)** | |
| ART 016 Painting - Beginning | 3 |
| DMA 009 Introduction to Digital Design | 3 |
| PHOT 030 Black and White Darkroom Photography | 3 |
| ART 007 Design-Color | 3 |
| **Ceramics: (onloy one may be chosen)** | |
| ART 023 Ceramics: Hand Building - Beginning | 3 |
| ART 026 Ceramics: Wheel Throwing - Beginning | 3 |
| **Sculpture: (only one may be chosen)** | |
| ART 031 Sculpture - Beginning | 3 |
| ART 034 Sculpture: Ceramics - Beginning | 3 |
| **Intermediate courses: (only one may be chosen)** | |
| ART 005 Life Drawing - Intermediate | 3 |
| ART 017 Painting: Intermediate | 3 |
| ART 019 Figure Painting | 3 |
| ART 021 Watercolor - Beginning | 3 |
| ART 024 Ceramics: Hand Building - Intermediate | 3 |
| ART 032 Sculpture: Human Figure - Beginning | 3 |
| ART 033 Sculpture - Intermediate | 3 |
| ART 039 Printmaking: Etching and Engraving - Line | 3 |
| ART 040 Printmaking: Etching and Engraving - Tone | 3 |
| ART 041 Printmaking: Etching and Engraving - Color | 3 |
| ART 042 Screen Printing | 3 |
| ART 043 Printmaking: Relief | 3 |
| DMA 010 Graphic Design I | 3 |
| DMA 015 Typography | 3 |
| DMA 020 Introduction to Digital Illustration | 3 |

## Studio Arts with Emphasis

*Associate in Arts*

**Program Description**

The Studio Arts Degree with Emphasis offers students a strong fine arts foundation, with core courses that develop essential technical skills, aesthetic vision, historical and contemporary art context, and an understanding of the artist's role as a global citizen. Students may select an Emphasis which will allow deeper technical, aesthetic, and conceptual study within a specific medium: drawing and mixed media; painting; printmaking; sculpture; and ceramics. The Studio Arts Degree with Emphasis is designed for students seeking to further their study at an art school or at one of the University of California art departments. Students who earn this degree will also meet the requirements for the AA-T degree in Studio Arts, and should petition for the AA-T degree only if they plan to transfer to a CSU campus.

The Associate in Arts Degree can be obtained upon completion of the 25-27-unit major, general education requirements, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Studio Arts with Emphasis Associate in Arts will be able to:

1. Demonstrate advanced skills in selecting a broad range of appropriate materials and techniques to solve creative problems.
2. Apply advanced composition strategies to create visually unified and compositionally effective works of art.
3. Utilize appropriate language and approaches to create, analyze, and critique conceptually effective works of art at an advanced level, with breadth and depth of analysis.

| **REQUIRED CORE** | **Units** |
|---|---|
| ARTH 012 Western Art, Renaissance to Contemporary | 3 |
| ART 006 Design Principles in 2-Dimensions | 3 |
| ART 007 Design-Color | 3 |
| ART 008 Design Principles in 3-Dimensions | 3 |
| ART 014 Drawing - Beginning | 3 |
| One course from List A: Art History | 3 |
| Three courses from one of the Areas of Emphasis | 8-9 |
| **Required Major Total Units** | **25-27** |

| **List A: Art History (select one course)** | **Units** |
|---|---|
| ARTH 011 Western Art, Prehistory through Middle Ages | 3 |
| ARTH 031 Modern Art | 3 |

**Areas of Emphasis: (select three courses from one Area)**

| **Drawing and Mixed Media** | **Units** |
|---|---|
| ART 004 Life Drawing - Beginning | 3 |
| ART 005 Life Drawing - Intermediate | 3 |
| ART 015 Drawing Intermediate | 3 |
| ART 015B Collage & Assemblage | 3 |
| ART 020 Landscape Drawing and Painting — Reflections of Nature | 2-3 |

| **Painting** | **Units** |
|---|---|
| ART 016 Painting - Beginning | 3 |
| ART 017 Painting - Intermediate | 3 |
| ART 018 Painting - Advanced | 3 |
| ART 019 Figure Painting | 3 |
| ART 021 Watercolor - Beginning | 3 |

| **Printmaking** | **Units** |
|---|---|
| ART 038 Printmaking - Beginning | 3 |
| ART 039 Printmaking: Etching and Engraving - Line | 3 |
| ART 040 Printmaking: Etching and Engraving - Tone | 3 |
| ART 041 Printmaking: Etching and Engraving - Color | 3 |
| ART 042 Screen Printing | 3 |
| ART 043 Printmaking: Relief | 3 |

| **Sculpture** | **Units** |
|---|---|
| ART 031 Sculpture - Beginning | 3 |
| ART 032 Sculpture: Human Figure - Beginning | 3 |
| ART 033 Sculpture - Intermediate | 3 |
| ART 034 Sculpture: Ceramics - Beginning | 3 |

| **Ceramics** | **Units** |
|---|---|
| ART 023 Ceramics: Hand Building - Beginning | 3 |
| ART 024 Ceramics: Hand Building - Intermediate | 3 |
| ART 025 Ceramic: Hand Building - Design and Decoration | 3 |
| ART 026 Ceramics: Wheel Throwing - Beginning | 3 |
| ART 027 Ceramics: Wheel Throwing - Intermediate | 3 |
| ART 028 Ceramics: Wheel Throwing - Design | 3 |
| ART 029 Raku Pottery | 3 |
| ART 030C Ceramics: History, Culture, Practice | 3 |
| ART 035A Ceramics: Wood-Fired - Beginning | 3 |
| ART 037 Ceramics: Clay and Glazes | 3 |

# ART - Art

**ART 004** **3.0 Units**
**Life Drawing - Beginning**
*C-ID: ARTS 200*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
A study of the human figure in action and repose using a variety of drawing materials and approaches. Students work directly from the live model to develop skills using assignments which include gesture, line drawings, tone studies and the use of color. The student submits a midterm and final portfolio for evaluation. *Field trip may be required*.

**ART 005** **3.0 Units**
**Life Drawing - Intermediate**
*Prerequisite**: ART 004*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
The continued study of the human figure with more advanced problems in drawing and composition. The student may choose an individual program of study with the approval of the instructor. Working is from the live model as part of the instruction. *Field trip may be required*.

**ART 006** **3.0 Units**
**Design Principles In 2-Dimensions**
*C-ID: ARTS 100*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
An introductory study of the elements and principles of design for 2-Dimensional Art. Students will make work in black and white, using various materials. The course will introduce both historical and aesthetic concepts as a basis to explore the relationship of form and content. *Field trip may be required*.

**ART 007** **3.0 Units**
**Design-Color**
*C-ID: ARTS 270*
*Course Advisory: ART 006 and ART 014*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
Understand how to use color to influence the visual experience. Learn to think about color as it relates to other important aspects of Art and Design, including form (the shape of objects we see) and composition (the position of those objects to one another.) Studying color, form and composition will give an introduction to the thinking used in good design. Students produce a portfolio of color exercises that will support graphic design and fine art practices. Attention will be paid to issues of racism, representation, and the power structures that exist in both past and current practices of art and design.
*Field trip may be required*.

**ART 008** **3.0 Units**
**Design Principles In 3-Dimensions**
*C-ID: ARTS 101*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
The fundamental study of visual elements and principles of design for production of objects in three dimensions using various materials and methods. Design concepts developed from historic and esthetic precepts are employed to investigate the relationships of form and content. *Field trip may be required*.

**ART 014** **3.0 Units**
**Drawing - Beginning**
*C-ID: ARTS 110*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
A study of drawing as a means of expression with emphasis on the potential variety of forms and materials available to the artist. Students will create representational and abstract drawings from still life, the figure, nature and imagination. Observational drawing skills and technical skills will be developed. *Field trip may be required*.

**ART 015** **3.0 Units**
**Drawing - Intermediate**
*C-ID: ARTS 205*
*Course Advisory: ART 014*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
Exploration of artistic concepts, styles, and creative expression related to intermediate-level drawing, focusing on complex subject matter and concepts using a variety of drawing mediums, techniques, and methodologies. Students in this course will build on fundamental drawing skills to develop personalized approaches to content and materials in exercises covering multiple historical and contemporary approaches to drawing. There will be an emphasis on composition and the development of a personal approach to drawing. Students will be required to submit a portfolio of assignments. *Field trip may be required*.

**ART 015B** **3.0 Units**
**Collage and Assemblage**
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
Explores the making of 2D and 3D collages and assemblages in a variety of media. Addresses the history and prevalence of collage thinking as an approach to art making while integrating traditional drawing and painting skills. *Field trip may be required*.

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# ART - Art

**ART 015C** **3.0 Units**

**Book Making**

*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*

This hands on, studio course explores book making in a variety of formats. Discussion of the history and development of the book is included. Students will make several books: Classic signature book bound between boards, side bound books and a variety of artists books including altered books, boxed books, and 3 dimensional book structures like accordion books and pop-up books. Attention will be paid to issues of racism, representation, and the power structures that exist in both past and current practices of art and design.
*Field trip may be required*.

**ART 016** **3.0 Units**

**Painting - Beginning**

*C-ID: ARTS 210*
*Course Advisory: ART 014*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*

Introduction to techniques and materials of painting in acrylic or oil. Designed for the student with limited experience in painting, this course includes color theory, composition, exposure to a variety of subject matters, and the development of skills for individual expression. Attention will be paid to issues of racism, representation, and the power structures that exist in both past and current practices of painting. *Field trip may be required*.

**ART 017** **3.0 Units**

**Painting - Intermediate**

*Course Advisory: ART 016*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*

A study of acrylic and oil painting techniques focusing on use of color, the medium of painting and composition. Students work through a series of painting assignments designed to develop visual and technical skills. Attention will be paid to issues of racism, representation, and the power structures that exist in both past and current practices of art making. *Field trip may be required*.

**ART 018** **3.0 Units**

**Painting - Advanced**

*Prerequisite**: ART 017*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*

A study of color, composition and painting technique in oil or acrylic painting on an advanced, intermediate level. Students may choose to build on assignments from ART 017 or develop an outline of semester assignments appropriate to their interests and skill needs. Attention will be paid to issues of racism, representation, and the power structures that exist in both past and current practices of art making. *Field trip may be required*.

**ART 019** **3.0 Units**

**Figure Painting**

*Course Advisory: ART 016*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*

A study of the human figure using a variety of painting techniques and approaches. Students work directly from the live model to develop skills in rendering and expression. Assignments include long and short observational paintings which will afford skills development in materials handling as well as compositional and thematic developments.
*Field trip may be required*.

**ART 019B** **3.0 Units**

**Figure Drawing and Painting - Clothed**

*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*

An emphasis on understanding the various properties of clothing and drapery, as used with the figure in painting and drawing. Gesture, proportion, form and color will be studied in relation to the clothed figure. Projects will include a variety of costume statements including fashion, sport, fantasy or science fiction and theatre costume.
*Field trip may be required.*

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# ART - Art

**ART 020** **2.0 or 3.0 Units**
**Landscape Drawing And Painting - Reflections Of Nature**
*Transferable to UC/CSU*
*Hours: 16-36 lecture, 48-72 lab*
A focus on the outdoors as subject matter using frequent field trips and class exercises to introduce and expand the student's awareness and observational skills of the environment, in the tradition of Natural History as well as plein air (outdoor) art making. The student will reflect and translate these experiences into graphic terms using various media while considering line, shape, mass, space, texture, light, color and shadow. The student will focus on composition and content while developing a personal understanding of the environment. Keeping a written and visual journal will also be a component of this class. This course will examine the interrelationships of humans and their surroundings, and the esthetics choices available with which to communicate our responses. This class will consist of regular field trips during class meetings as well as some weekend outings. Films, special lectures, various projects and assignments as well as consideration for weather conditions will make up the remaining time in the studio. *Students who wish to transfer must enroll in the 3-unit section.*

**ART 021** **3.0 Units**
**Watercolor - Beginning**
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
An introduction to the materials and techniques of transparent watercolor. Course includes basic composition, color study and an exploration of materials. Lectures, demonstrations and field study will supplement class assignments. *Field trip may be required*.

**ART 022** **3.0 Units**
**Watercolor - Intermediate**
*Prerequisite**: ART 021*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
A continuation of the study of basic watercolor techniques with emphasis on a more individual approach to the medium. The student and instructor develop a course of study that will focus on needs in the areas of skills and self-expression. *Field trip may be required*.

**ART 023** **3.0 Units**
**Ceramics: Hand Building - Beginning**
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
Basic construction methods of hand building and finishing pottery. Emphasis on form, craftspersonship, and creativity. Building methods include pinch technique, coil building, and slab construction. Surface techniques include texture, stencil, slip, relief, stain, and glaze. Non-traditional construction and surface techniques will also be covered. *Field trip may be required*.

**ART 024** **3.0 Units**
**Ceramics: Hand Building - Intermediate**
*Prerequisite**: ART 023*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
Developing and expanding skills, experimentation, design, craftspersonship, and creativity. Application of experience and intermediate techniques to create finished art forms. Intermediate construction methods of hand building and finishing pottery. Building methods include pinch technique, coil building, and slab construction. Surface techniques include texture, stencil, slip, relief, stain, and glaze. Non-traditional construction and surface techniques will also be covered. Increased capacity of personal expression through ceramic art. *Field trip may be required*.

**ART 025** **3.0 Units**
**Ceramics: Handbuilding - Design And Decoration**
*Prerequisite**: ART 024*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
Emphasizes ceramic design problem-solving. Emphasis on creativity, design, honing skills, craftspersonship and experimentation. Ceramic art of the past as well as contemporary art is discussed. Loading and firing kilns, formulating glazes and mixing clay bodies are also covered. *Field trip may be required*.

**ART 026** **3.0 Units**
**Ceramics: Wheel Throwing - Beginning**
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
Introduction to basic wheel throwing techniques. Emphasis on form, craftspersonship, and creativity. Surface techniques include texture, stencil, slip, relief, stain, and glaze. Non-traditional construction and surface techniques will also be covered. *Field trip may be required*.

# ART - Art

**ART 027** **3.0 Units**

**Ceramics: Wheel Throwing - Intermediate**

*Prerequisite**: ART 026*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*

Intermediate wheel throwing techniques. Emphasis on form, craftspersonship, and creativity. Surface techniques include texture, stencil, slip, relief, stain, and glaze. Non-traditional construction and surface techniques will also be covered. Application of demonstrated techniques to create finished art. *Field trip may be required.*

**ART 028** **3.0 Units**

**Ceramics: Wheel Throwing - Design**

*Prerequisite**: ART 027*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*

Emphasizes ceramic design problem-solving. Emphasis on creativity, design, honing skills, craftspersonship and experimentation. Ceramic art of the past as well as contemporary art is discussed. Loading and firing kilns, formulating glaze and mixing clay bodies are also covered. *Field trip may be required*.

**ART 029** **2.0 or 3.0 Units**

**Raku Pottery**

*Course Advisory: ART 023 or ART 026 (one college level ceramics course)*
*Transferable to UC/CSU*
*Hours: 16-36 lecture, 48-72 lab*

The ancient and contemporary art of Raku. Topics include techniques of forming clay, the formulation of clay bodies and glazes for Raku, kiln construction, firing, post firing, Eastern and Western aesthetics, and the history of Raku. The course will not cover basic ceramic construction techniques. Students should already be familiar with basic hand building or wheel throwing techniques. Students who wish to transfer must enroll in the 3-unit section. *Field trip may be required*.

**ART 030A** **2.0 or 3.0 Units**

**Ceramics: Architecture, Murals and Tiles**

*Course Advisory: ART 023 or ART 026 (one college level ceramics course)*
*Transferable to UC/CSU*
*Hours: 16-36 lecture, 48-72 lab*

Investigates the history, contemporary examples, materials, techniques and the vast range of artistic expression possible in architectural ceramics, ceramic murals and tiles. Students should already be familiar with basic hand building or wheel throwing techniques. Student should expect to incur materials and equipment costs typical of a studio art course. *Field trips may be required.* Students who wish to transfer must enroll in the 3-unit section.

**ART 030B** **3.0 Units**

**Mural Painting**

*General Education: SCC: Area D; IGETC: Area 3A; CSU: Area C1*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab.*

Explore the cultural history of mural painting as well as the social and political issues related to the creation and public reception of mural paintings. Students will apply aesthetic as well as conceptual analyses to the design and creation of a full-scale mural. Through both study and practice, students will consider the importance of the community in the mural- making process. Attention will be paid to issues of racism, representation, and the power structures that exist in both past and current practices of art and design. *Field trips may be required.* Students may travel to view murals in the Bay Area. Murals may be painted at an off-campus site.

**ART 030C** **3.0 Units**

**Ceramics: History, Culture, Practice**

*General Education: SCC: Area D; IGETC: Area 3A; CSU: Area C1*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*

Introduction to a broad spectrum of ceramic art from diverse cultures including Western/European Art, Asian/ Middle Eastern Art, Meso-American Art and African Art within a technical, historical, and cultural context. Students will utilize creative problem solving skills to produce contemporary, original works of art that reinterpret the traditions presented in the course content.

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# ART - Art

**ART 031** **3.0 Units**

**Sculpture - Beginning**

*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*

Introduction to sculpture methods and materials. Emphasis on principles of three-dimensional design and the interrelationship of form, content and context. Sculpture methods to be covered include modeling, mold making, welding, assemblage, and construction with a variety of materials. Various sculpture methods are practiced with attention to creative self-expression and historical context. *Field trip may be required*.

**ART 032** **3.0 Units**

**Sculpture: Human Figure - Beginning**

*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*

Study of the human form in sculpture. Students will create both realistic and abstract sculpture of the human form in a variety of materials. Students will investigate both historical and contemporary examples of human figure sculpture. *Field trip may be required*.

**ART 033** **3.0 Units**

**Sculpture - Intermediate**

*Prerequisite**: ART 031, ART 032 or ART 034*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*

Further development of concepts and skills central to the practice of sculpture.. Emphasis is placed on individual expression. A variety of materials, methods, and sculptural concepts are explored. *Field trip may be required*.

**ART 034** **3.0 Units**

**Sculpture: Ceramics - Beginning**

*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*

Introduction to basic sculpture concepts, materials, and approaches with an emphasis on ceramics. Subjects to be covered include: Historic and contemporary approaches to ceramic sculpture, slab construction, coil building, mold making, extruded fabrication, modeling from the figure, introduction to ceramic color, characteristics and limitations of ceramic materials. *Field trip may be required*.

**ART 035A** **3.0 Units**

**Ceramics: Wood-Fired - Beginning**

*Course Advisory: ART 023 or ART 026*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*

The ancient and contemporary art of wood-fired ceramics. Topics include techniques of forming clay, the formulating of clay bodies and glazes for wood fire, kiln construction, wood firing techniques, Eastern and Western aesthetics and the history of wood-fired ceramics. The course will not cover basic ceramic construction techniques. Students should already be familiar with basic hand building or wheel throwing techniques. *Course will require participation in wood firing with some time spent outside regularly scheduled class hours.*

**ART 036** **2.0 or 3.0 Units**

**Ceramics: Drawing and Painting on Clay**

*Course Advisory: ART 023 or ART 026*
*Transferable to UC/CSU*
*Hours: 16-36 lecture, 48-72 lab*

Explore the possibilities of the vast range of artistic expression with ceramic slips, stains, glazes and firing techniques at low medium and high temperature ranges. The course will not cover basic ceramic construction techniques. Students should already be familiar with basic hand building or wheel throwing techniques. *Field trip may be required*. Students who wish to transfer must enroll in the 3-unit section.

**ART 037** **2.0 or 3.0 Units**

**Ceramics: Clay and Glazes**

*Prerequisite**: ART 023 or ART 026*
*Transferable to UC/CSU*
*Hours: 16-36 lecture, 48-72 lab*

An investigation of the theoretical and practical aspects of clay body and glaze formulation. Topics covered include: Clay/glaze fit, glaze calculation, testing strategies, the development of color, the development of texture, kiln types, kiln temperatures and kiln atmosphere. *Field trip may be required*. Students who wish to transfer must enroll in the 3-unit section.

# ART - Art

**ART 038** **3.0 Units**
**Printmaking - Beginning**
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
Explores contemporary and traditional approaches to etching (Intaglio), lithography, relief (woodcut and linoleum), screen printing and lithography. Digital and new methods of photographic printmaking are also covered. This project oriented course allows students to develop completed prints in several mediums. Attention will be paid to issues of racism, representation, and the power structures that exist in both past and current practices of art and design. *Field trip may be required*.

**ART 039** **3.0 Units**
**Printmaking: Etching and Engraving - Line**
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
Etching is a diverse process, offering a unique set of tools and marks with which to experiment and communicate. Line etching and engraving focuses on creating intaglio prints from both plastic and copper plates. Basic techniques including: dry point, hard ground line etching, plate preparation, and printing. Attention will be paid to issues of racism, representation, and the power structures that exist in both past and current practices of printmaking. *Field trip may be required*.

**ART 040** **3.0 Units**
**Printmaking: Etching and Engraving - Tone**
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
Building on the skills of line etching, students will create prints using a variety of etching techniques. Tonal techniques such as aquatint and soft ground will allow students to produce printed areas that have gray and black spaces. Attention will be paid to issues of racism, representation, and the power structures that exist in both past and current practices of printmaking. *Field trip may be required*.

**ART 041** **3.0 Units**
**Printmaking: Etching and Engraving - Color**
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
Etching and engraving techniques and their history, including the use of multiple plates for each color used on the key plate. Some color plate methods covered include a la poupee, monotype, chine colle, color rollings, and viscosity printing. The students will create a portfolio of completed projects. Attention will be paid to issues of racism, representation, and the power structures that exist in both past and current practices of printmaking.*Field trip may be required*.

**ART 042** **3.0 Units**
**Screen Printing**
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
Screen printing techniques from paper stencils to photographic and digital processes. Students will develop a portfolio of prints that emphasizes the exploration of personal content while employing advanced screen techniques and related digital processes. The course will consist of studio production, lectures on contemporary and historical screen printing, demonstrations and critiques. Attention will be paid to issues of racism, representation, and the power structures that exist in both past and current practices of printmaking.
*Field trip may be required*.

**ART 042A** **3.0 Units**
**Screen Printing - Commercial**
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*
An introduction to the screen-printing process. Students will participate in the various functions of a design studio. They will produce artwork; select mesh, frames, and stencil systems; and select inks and substrates based on printing techniques. A combination of laboratory applications and theory will provide the foundation for this course. Acquisition of technical skills through the actual production of screen-printed products is a major goal of this course. Tee shirts, reusable shopping bags and aprons will be some of the merchandise the class will design and print for the Solano College community. Attention will be paid to issues of racism, representation, and the power structures that exist in both past and current practices of art in the workplace.

# ART - Art

**ART 043** **3.0 Units**

**Print Making: Relief**

*Transferable to UC/CSU*
*Hours: 32-36 lecture, 64-72 lab*

An introduction to the history, development, techniques, and processes of relief printmaking. This hands on course will study and apply relief methods such as embossing, collagraph, linoleum cut, woodcut, and non-traditional methods. Students will make prints using these methods and will learn to apply graphic principals to their creative work. Attention will be paid to issues of racism, representation, and the power structures that exist in both past and current practices of art and design.
*Field trip may be required*.

**ART 049** **1.0 to 3.0 Units**

**Studio Art Honors**

*Prerequisite**: Completion of 24.0 units of college credit with a minimum GPA of 3.3; a minimum of 5.0 units in the discipline with a grade of 'B' or better; an ability to work independently and permission of the School Dean based on instructor availability.*
*Transferable to CSU*
*Hours: 48-162 lab by arrangement*

An independent study course designed for students who have taken the introductory classes in an area of emphasis (Drawing and Mixed Media, Painting, Printmaking, Ceramics, or Sculpture) and would like to work with an instructor to focus on specific technical, aesthetic, and/or conceptual problems in that area. Students will create a portfolio or project and reflect on their work in written papers.

**ART 064** **3.0 Units**

**Printmaking: Monotype/Monoprint**

*Transferable to CSU*
*Hours: 32-36 lecture, 64-72 lab*

This hands-on printmaking course focuses on the unique print and includes the history and development of this form in relation to print traditions. Students will develop skills in using the press and will build a portfolio of prints using a variety of techniques. Attention will be paid to issues of racism, representation, and the power structures that exist in both past and current practices of art and design. *Field trip may be required*.

**ART 074** **2.0 or 3.0 Units**

**Kiln Design and Operation**

*Course Advisory: ART 023 or ART 026 (one college level ceramics course)*
*Transferable to CSU*
*Hours: 16-36 lecture, 48-72 lab*

Investigate the vast range in kiln designs, their operation and the opportunities each offers for artistic expression. Kiln designs covered will include natural gas, propane, electric, raku, salt, wood, and alternative kilns. Students will be able to determine which kilns and which firing strategies are best suited to their current artistic vision. The course will not cover basic ceramic construction techniques. Students should already be familiar with basic hand building or wheel throwing techniques. *Field trips may be required.* Students who wish to transfer must enroll in the 3-unit section.

**ART 075** **2.0 or 3.0 Units**

**Art Studio Concepts**

*Transferable to CSU*
*Hours: 16-36 lecture, 48-72 lab*

Guided by their professor, students investigate a specific subject area in the fine arts. Exposure to contemporary art directions, trends and selected topics. Different studio problems will be investigated each semester. *Field trips may be required.* Students who wish to transfer must enroll in the 3-unit section.

**ART 076A** **3.0 Units**

**Portfolio Development - Artistic Inquiry**

*Course Advisory: At least 3 courseds in designated studio art focus of the semester or instructor consent*
*Transferable to CSU*
*Hours: 32-36 lecture, 64-72 lab*

An advanced course designed to serve the student in the preparation of a professional fine art portfolio consisting of a body or series of work. Emphasis is placed on 1) individual expression of an artistic vision, 2) idea development 3) artistic inquiry 4) setting and meeting artistic goals and timelines for the production of a body or series of work. For this course the student should have the necessary skills, art making experience and motivation to work independently, with expert consultation by the instructor, on developing a coherent body of work. This course is the first in a two part course offering completed by Portfolio Development- Documentation.Student should expect to incur materials and equipment costs typical of a studio art course.
*Field trip may be required*.

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**ART 076B** **3.0 Units**

**Portfolio Development - Documentation**

*Course Advisory: At least 3 courseds in designated studio art focus of the semester or instructor consent*
*Transferable to CSU*
*Hours: 32-36 lecture, 64-72 lab*

An advanced course designed to serve the student in the preparation of a professional fine art portfolio consisting of a body or series of work. Emphasis is placed on 1) individual expression of an artistic vision, 2) professional quality documentation and presentation of artwork and 3) capacity to communicate both verbally and in writing about artwork produced. For this course the student should have the necessary skills, art making experience and motivation to work independently, with expert consultation by the instructor, on developing a coherent body of work. This course is the second in a two part course offering following Portfolio Development- Artistic Inquiry. Student should expect to incur materials and equipment costs typical of a studio art course.
*Field trip may be required*.

**ART 077A** **3.0 Units**

**Professional Practices for Artists**

*Transferable to CSU*
*Hours: 48-54 lecture*

Provides the skills and information to serve the student in developing a professional art career. Topics include: How to approach galleries, institutions, universities, art schools, and potential employers. Techniques for promoting art for employment or transfer to four year schools, portfolio preparation, resume writing, artist statement and biography composition, sales and pricing of art, business basics, entrepreneurship, public relations, art on the internet, planning and goal setting, contracts, taxes, grant getting, display, shipping, sustaining creativity. Evaluation of marketing and promotional concepts. Recommended for all art and design majors seeking to become professionals.
*Field trips may be required.*

**ART 077B** **3.0 Units**

**Art on Site**

*Transferable to CSU*
*Hours: 48-54 lecture*

A movable feast. In this course students will visit artists, gallery owners, museum curators and art administrators on site, at their studios, galleries museums and offices. This will be a forum for students to hear first hand from artists, arts scholars and other art professionals discussing and contextualizing their work within the contemporary art field. Includes multiple lecturers by visitors and additional class lectures providing further context. Exposure to contemporary art directions, trends and job markets. *This course requires extensive field trips to destinations in the greater Sacramento and Bay Area.*

**ART 100** **2.0 or 3.0 Units**

**Drawing: Color and Mixed Media**

*Non-transferable to UC or CSU*
*Hours: 16-36 lecture, 48-72 lab*

A focus on the use of a variety of drawing materials and techniques with special attention to color theory. Lectures, demonstrations and field study will supplement class assignments. *Field trip may be required*.

**ART 145** **2.0 or 3.0 Units**

**Portrait Drawing and Painting**

*Prerequisite: ART 014*
*Non-transferable to UC or CSU*
*Hours: 16-36 lecture, 48-72 lab*

A multi-faceted course addressing the representation of likeness portrait study. Includes anatomy and work with live models, self- portraits and portraits of others. Issues of gender, ethnic identity, youth and aging, stereotyping and caricature will be presented in historical and contemporary contexts. Portrait work will be explored in a variety of stylistic formats from observational likeness to expressionistic images to symbolic portraits. Work in a variety of media is required. *Field trip may be required*.

# Art History

## Associate in Arts in Art History for Transfer (ADT: A.A.-T)

**Program Description**
This program provides the academic and practical experience to prepare students for a career, or further education at a four-year institution, in art history and related fields, such as museum studies, art education and administration. The Associate in Arts in Art History for Transfer provides the academic and practical experience to transfer into the CSU system to complete a baccalaureate degree that will prepare students for a career in Art History. Students wishing to transfer to the University of California (UC) system for an Art History B.A. should take all the art history courses in the program (ART 001, 002, 003A, 003B, 011 and 012). Students completing an Associate in Arts in Art History for Transfer are guaranteed admission to the CSU system, but not to a particular campus or major.

Students transferring to a CSU campus that are accepted into an Art History major will be required to complete no more than 60 units after transfer to earn a bachelor's degree. The Associate in Arts in Art History for Transfer also prepares students for art history degree programs at UC institutions, but does not come with the same guarantees. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

**To earn the Associate in Arts in Art History for Transfer, students must:**
1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Arts in Art History for Transfer degree will be able to:
1. Analyze the relationship between various cultures and their art forms, linking specific works, artists, and art movements/periods to relevant historical events, cultural values, and belief systems.
2. Analyze issues related to the perception, scholarship, and display of artwork.
3. Use scholarly sources effectively and ethically to support their analyses of art.

**REQUIRED COURSES ..... Units**
ARTH 011 Western Art, Prehistory through Middle Ages ..... 3
ARTH 012 Western Art, Renaissance to Contemporary..... 3
ART 014 Drawing - Beginning ..... 3
3 units from List A..... 3
3 units from List B..... 3
3 units from List C..... 3
**Required Major Total units..... 18**

**List A: Non-Western Arts History (select 3 units) .. Units**
ARTH 021 Asian Art ..... 3
ARTH 025 African, Oceanic, Ancient and Indigenous American Art ..... 3

**List B: Studio Art (select 3 units) ..... Units**
ART 004 Life Drawing - Beginning..... 3
ART 006 Design Principles in 2-Dimensions ..... 3
ART 007 Design-Color..... 3
ART 008 Design Principles in 3-Dimensions ..... 3
ART 016 Painting - Beginning..... 3
ART 019 Figure Painting..... 3
ART 023 Ceramics: Hand Building - Beginning..... 3
ART 026 Ceramics: Wheel Throwing - Beginning ..... 3
ART 031 Sculpture - Beginning ..... 3
ART 032 Sculpture: Human Figure - Beginning..... 3
ART 038 Printmaking - Beginning ..... 3
ART 039 Printmaking: Etching and Engraving - Line ..... 3
ART 043 Printmaking: Relief ..... 3
DMA 010 Graphic Design I..... 3
PHOT 030 Black and White Darkroom Photography ..... 3

**List C: Modern, Contemporary, and Theory (select 3 units)..... Units**
ARTH 031 Modern Art ..... 3
ARTH 035 Diverse Art: Race and Representation in the U.S.A. ..... 3

# ARTH - Art History

**ARTH 001 Introduction to Art History 3.0 Units**
*C-ID: ARTH 100*
*General Education: SCC: Area D; IGETC: Area 3A; CSU: Area C1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An examination of the cultural, universal, and personal factors influencing the making and viewing of art throughout history. Includes a study of style, composition, materials and techniques used in the creation of art from different cultures and periods. *Field trip may be required*. (Formerly ART 010)

**ARTH 011 3.0 Units**
**Western Art, Prehistory through Middle Ages**
*C-ID: ARTH 110*
*General Education: SCC: Area D; IGETC: Area 3A; CSU: Area C1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Survey of the history of art in the Western World from the Paleolithic era through the Middle Ages. Focuses on the interrelation of art and culture, with a comparative study of select works of non-Western art.
*Field trip may be required*. (Formerly ART 001)

**ARTH 012 3.0 Units**
**Western Art, Renaissance to Contemporary**
*C-ID: ARTH 120*
*General Education: SCC: Area D; IGETC: Area 3A; CSU: Area C1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Explores the history of Western Art through a critical analysis of Renaissance art through Post-Modern Art. Students will examine the connection between art and culture, and evaluate the historic, religious, and political influences on diverse artists from the 15th century to today. *Field trip may be required*. (Formerly ART 002)

**ARTH 021 3.0 Units**
**Asian Art**
*C-ID: ARTH 130*
*General Education: SCC: Area D; IGETC: Area 3A; CSU: Area C1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A survey of art and architecture from India, Southeast Asia, China, Korea, and Japan from pre-history to modern times. (Formerly ART 003A)

**ARTH 025 3.0 Units**
**African, Oceanic, Ancient and Indigenous American Art**
*C-ID: ARTH 140*
*General Education: SCC: Area D; IGETC: Area 3A; CSU: Area C1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Survey of the arts and architecture of Africa, Oceania, and the ancient Americas, with an emphasis on traditional arts and practices. This course will also address issues related to the scholarship and display of these arts in the Western world. (Formerly ART 003B)

**ARTH 031 3.0 Units**
**Modern Art**
*C-ID: ARTH 150*
*General Education: SCC: Area D; IGETC: Area 3A; CSU: Area C1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A study of the art and architecture of the major modern movements and artists from the 19th century and 20th centuries. Includes analysis of subject, form, and content of paintings, photography, sculpture, and new media. Also examines the role of the art world (such as critics, curators, museums) in shaping modern art history. *Modern Art is a capstone course designed for, but not limited to, Art History and Studio Art Majors. Field trip may be required.* (Formerly ART 011)

**ARTH 035 3.0 Units**
**Diverse Art: Race and Representation in the U.S.A.**
*General Education: SCC: Area D, Area F; IGETC: Area 3A, SCC Cross-Cultural; CSU: Area C1, SCC Cross-Cultural*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An art survey course that examines and assesses the work of African American artists and artists representing one or more additional communities: Native American, Asian American, and/or Latinx. Examines artists' anti-racist and anti-colonial strategies to assert agency and effect change through the creation and display of their art, in both contemporary and historical contexts. Explores the complexities of intersectional identity, as well as the racism of art organizations and U.S. society.
*Field trip may be required*. (Formerly ART 012)

## Astronomy

*Associate in Science*

**Program Description**

The Astronomy program introduces students to the physical properties and processes that govern celestial bodies in the Universe. Students may take astronomy courses to satisfy their natural sciences requirements or to transfer with a major in astronomy/astrophysics or double major in astronomy and physics to the university. Transfer level astronomy curricula stress very strong preparation in physics and mathematics. While most astronomy courses will be taken at the upper division or graduate level, exposure to lower division astronomy courses will assist in exploring the major. Students planning to transfer may need to complete additional coursework and/or select specific electives required by the transfer institution and should consult with a counselor to identify required courses at their target university. Students who pursue a B.S. degree in astronomy will be qualified to enter a teaching credential program, operate a planetarium, and assist at an observatory. With an M.S. degree, students can teach astronomy or physics at a community college, be a telescope operator at a major observatory, or work in industry. A Ph.D. qualifies students for a career in research at a university, space agency, or observatory

The Associate in Science in Astronomy can be obtained by completing the 39-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for the major must be completed with a minimum grade of C, or a grade of P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Astronomy Associate in Science will be able to:

1. Explain and discuss basic astronomical phenomena including, but not limited to: gravitation, the seasons, the phases of the Moon, eclipses.
2. Apply the laws of  to explain the properties of planets, stars, galaxies, and the Universe.
3. Explain and discuss the impact and history of scientific theories and their importance in the advancement of astronomy.
4. Demonstrate proficiency in applying scientific procedures for making observations and measurements typical of modern astronomical research.

| **REQUIRED COURSES** | **Units** |
|---|---|
| ASTR 010 General Astronomy | 3 |
| ASTR 020 Astronomy Laboratory | 1 |
| MATH 020 Analytic Geometry and Calculus I | 5 |
| MATH 021 Analytic Geometry and Calculus II | 5 |
| MATH 022 Analytic Geometry and Calculus III | 4 |
| PHYS 006  for Science and Engineering | 5 |
| PHYS 007  for Science and Engineering | 5 |
| PHYS 008  for Science and Engineering | 5 |
| 6 units from List A: | 6 |
| **Required Major Total Units** | **39** |

| **List A:** (select 6 units) | **Units** |
|---|---|
| ASTR 030 The Solar System | 3 |
| ASTR 040 Stars, Galaxies, and Cosmology | 3 |
| ASTR 045 Introduction to Astrobiology and the Search for Life in the Universe | 3 |
| ASTR 050 Astronomical Optics | 1 |
| CHEM 001 General Chemistry | 5 |
| CIS 022 Introduction to Programming | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# ASTR - Astronomy

**ASTR 010** **3.0 Units**

**General Astronomy**

*General Education: SCC: Area C; IGETC: Area 5A; CSU: C: Area B1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

An introductory study of the universe, including the properties and evolution of galaxies, stars, pulsars, black holes, quasars, the sun, planets and life in the universe. *Field trip may be required*.

**ASTR 020** **1.0 Unit**

**Astronomy Laboratory**

*Prerequisite**: A minimum grade of D in ASTR 010, ASTR 030, ASTR 040 or ASTR 045 (courses may be taken concurrently)*
*General Education: IGETC: Area 5C; CSU: Area B3*
*Transferable to UC/CSU*
*Hours: 48-54 lab*

A familiarization with the sky, telescopes, and other astronomical equipment. Students will conduct experiments in physics related to astronomy. Topics will cover the moon, planets, stars, galaxies, and cosmology. *Field trip may be required.*

**ASTR 030** **3.0 Units**

**The Solar System**

*General Education: SCC: Area C; IGETC: Area 5A; CSU: Area B1*
*Transferable to UC/CSU; UC limitation of credit: 3 units between ASTR 030 and ASTR 040*
*Hours: 48-54 lecture*

An introductory study of solar system astronomy, the physics related to that astronomy, the planets and their moons, the sun, solar system debris, and the possibility of extraterrestrial life. *Field trip may be required.*

**ASTR 040 Stars, Galaxies, and Cosmology** **3.0 Units**

*General Education: SCC: Area C; IGETC: Area 5A; CSU: Area B1*
*Transferable to UC/CSU; UC limitation of credit: 3 units between ASTR 030 and ASTR 040*
*Hours: 48-54 lecture*

An introductory study of stars, galaxies, the universe, and the physics related to these topics. Including an examination of the facts relating to the sun, stellar lifetimes, supernovae, black holes, and cosmology. *Field trip may be required*.

**ASTR 045** **3.0 Units**

**Introduction to Astrobiology and the Search for Life in the Universe**

*General Education: SCC: Area C; IGETC: Area 5A; CSU: Area B1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

An exploration of the possibility of life beyond the Earth. Topics include the origin and evolution of life on Earth, the formation of Earth and other planets in the solar system, the likelihood of life existing on other planets or moons within our solar system, attempts to locate life within our solar system and attempts to communicate with intelligent life in other parts of the galaxy.

**ASTR 049** **1.0 to 3.0 Units**

**Astronomy Honors**

*Prerequisite**: ASTR 020 or ASTR 045 and an ability to work independently; permission of the School Dean based on instructor availability.*
*Transferable to CSU*
*Hours: 48-144 lab*

Universities and research laboratories across the country critically depend on ordinary citizens to collect the data that they need for their research projects. These people are known as "Citizen Scientists". In this course students will contribute to a current Citizen Science research project in Astronomy. This project requires the approval of a faculty member sponsor.

**ASTR 050** **1.0 Unit**

**Astronomical Optics**

*Prerequisite**: ASTR 010, ASTR 030, ASTR 040, or ASTR 045*
*Course Advisory: MATH 104*
*General Education: CSU: Area B3*
*Transferable to CSU*
*Hours: 48-54 lab*

An introduction to principles of astronomical optics. The student will apply these principles to the design, fabrication, and use of a telescope, which will be tested under the night sky. Primary mirrors will be ground, smoothed, polished, and figured by hand. Optics and optical testing theories will be presented. Students will design and build a custom optical tube assembly and telescope mount.
*A field trip to test the finished telescope will be required.*

# Automotive

## Automotive Technician

*Associate in Science*

**Program Description**

The Automotive Technician program is designed to prepare graduates for entry level employment in the automotive industry as apprentice technicians, parts specialists, service consultants, or specialists in one of the many areas in the automotive service and repair industry.

The Associate in Science can be obtained upon completion of the 45-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Automotive Technician Associate in Science will be technically proficient in entry level skills as defined by the National Automotive Technician's Education Foundation (NATEF) by demonstrating:

1. Demonstrate the ability to properly service and repair automotive engines, automatic and manual transmissions and transaxles.
2. Demonstrate the ability to properly service and repair automotive brakes, steering and suspension systems.
3. Demonstrate the ability to properly service and repair automotive electrical, engine performance, HVAC and hybrid/alternative fuel vehicles.
4. Demonstrate effective workplace skills including oral and written communication and proper disposal and handling of hazardous waste materials

| **REQUIRED COURSES** | **Units** |
|---|---|
| ATEC 070 Automotive Fundamentals | 3 |
| ATEC 130 Automotive Suspension and Steering | 4 |
| ATEC 131 Automotive Electrical Systems | 4 |
| ATEC 132 Automotive Brake Systems | 4 |
| ATEC 133 Automotive Engine Repair | 4 |
| ATEC 134 Automatic Transmissions/Transaxles | 4 |
| ATEC 135 Automotive Engine Performance | 4 |
| ATEC 136 Automotive Manual Drivetrain and Axles | 4 |
| ATEC 137 Automotive Heating and Air Conditioning | 4 |
| ATEC 138 Automotive Electronics | 4 |
| ATEC 139 Advanced Engine Performance | 4 |
| ATEC 140 Hybrid Vehicle Maintenance and Repair | 2 |
| **Required Major Total Units** | **45** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

## Automotive Automatic Transmissions and Transaxles

*Certificate of Achievement*

**Program Description**

This program is designed to prepare graduates for entry level employment in the automotive industry as an Automatic Transmission/Transaxle Service/Repair Technician.

The Certificate of Achievement can be obtained by completing the 17-unit major. All courses must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Automatic Transmissions and Transaxles Certificate of Achievement will be able to:

1. Diagnose, remove, and repair automotive transmissions and transaxles
2. Utilize electrical diagnostic equipment and do hands-on testing with digital multi-meter
3. Safely work on and repair hybrid and alternative fuel vehicles

| **REQUIRED COURSES** | **Units** |
|---|---|
| ATEC 070 Automotive Fundamentals | 3 |
| ATEC 131 Automotive Electrical Systems | 4 |
| ATEC 134 Automatic Transmissions/Transaxles | 4 |
| ATEC 138 Automotive Electronics | 4 |
| ATEC 140 Hybrid Vehicle Maintenance and Repair | 2 |
| **Total Units** | **17** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Automotive

## Automotive Electrical and Body Systems

*Certificate of Achievement*

**Program Description**

This program is designed to prepare graduates for entry level employment in the automotive industry as an Automotive Electrical/Electronics Service/Repair Technician.

The Certificate of Achievement can be obtained by completing the 17-unit major. All courses must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Automotive Electrical and Body Systems Certificate of Achievement will be able to:

1. Understand the theory of air conditioning and heating systems and how to properly repair automotive HVAC systems
2. Utilize electrical diagnostic equipment and do hands-on testing with digital multi-meter
3. Safely work on and repair hybrid and alternative fuel vehicles

| **REQUIRED COURSES** | **Units** |
|---|---|
| ATEC 070 Automotive Fundamentals | 3 |
| ATEC 131 Automotive Electrical Systems | 4 |
| ATEC 137 Automotive Heating and Air Conditioning | 4 |
| ATEC 138 Automotive Electronics | 4 |
| ATEC 140 Hybrid Vehicle Maintenance and Repair | 2 |
| **Total Units** | **17** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Automotive

## Automotive Maintenance and Light Repair

*Certificate of Achievement*

**Program Description**

This program is designed to prepare graduates for entry level employment in the automotive industry as apprentice technicians, lube technician, express service technician or parts specialist.

The Certificate of Achievement can be obtained by completing the 17-unit automotive major. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a pass-no pass basis.

**Program Outcomes**

Students who complete the Automotive Maintenance and Light Repair Certificate Achievement will be able to:

1. Demonstrate proficiency in diagnosing and repairing automotive steering and suspension systems
2. Use electrical diagnostic equipment and do hands-on testing with a digital multi-meter
3. Proficiently diagnose, service, and repair automotive brake systems
4. Safely work on and repair hybrid and alternative fuel vehicles

| **REQUIRED COURSES** | **Units** |
|---|---|
| ATEC 070 Automotive Fundamentals | 3 |
| ATEC 130 Automotive Suspension and Steering | 4 |
| ATEC 131 Automotive Electrical Systems | 4 |
| ATEC 132 Automotive Brake Systems | 4 |
| ATEC 140 Hybrid Vehicle Maintenance and Repair | 2 |
| **Total Units** | **17** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# ATEC - Automotive Technology

**ATEC 070** **3.0 Units**

**Automotive Fundamentals**

*Transferable to CSU*
*Hours: 32-36 lecture, 48-54 lab*

Provides the knowledge and skills needed to prepare students for entry into the automotive core curriculum. The study of automotive industry fundamentals including careers, safety, fasteners, hand tool identification and usage, vehicle systems, electrical fundamentals, service information access and use, automotive chemical and fluid applications, hazardous waste handling, general shop equipment usage, and vehicle servicing. The course is designed in conjunction with Automotive Service Excellence (ASE) standards and subsequently will in part prepare the student for the ASE Maintenance and Light Repair G1 Certification Examination.

**ATEC 130** **4.0 Units**

**Automotive Suspension and Steering**

*Prerequisite**: ATEC 070 (may enroll concurrently)*
*Course Advisory: ATEC 131*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 96-108 lab*

The study of automotive suspension and steering fundamentals including: Diagnosis, inspection, repair, and adjustment of modern automotive steering, suspension, supplemental restraint, tire pressure monitoring, and alignment systems. Theory of operation, common automotive steering and suspension systems, wheel alignment principles, methods of diagnosis, adjustment and repair, and the use of suspension service equipment will be covered. The course is designed in conjunction with Automotive Service Excellence (ASE) standards and subsequently will in part prepare the student for the ASE Suspension and Steering A4 Certification Examination.

**ATEC 131** **4.0 Units**

**Automotive Electrical Systems**

*Prerequisite**: ATEC 070 (may enroll concurrently)*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 96-108 lab*

Theory and principles of automotive electrical systems including basic electrical theory, Ohm's Law, series and parallel circuits, electrical symbols and schematics, automotive batteries, charging systems, voltage regulation, starting systems, lighting systems, and various accessory systems. Laboratory will place emphasis on diagnosis and testing techniques required to effectively determine the necessary action in an electrical system failure. Use of schematics, technical specifications, voltmeters, ohmmeters, ammeters, and circuit testers will be required. The course is designed in conjunction with Automotive Service Excellence (ASE) standards and subsequently will in part prepare the student for the ASE Electrical / Electronic A6 Certification Examination.

**ATEC 132** **4.0 Units**

**Automotive Brake Systems**

*Prerequisite**: ATEC 070 (may enroll concurrently)*
*Course Advisory: ATEC 131*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 96-108 lab.*

The study of modern automotive braking systems. Hydraulic principles, coefficients of friction, and thermodynamics will be discussed. Diagnosis, repair, overhaul, and adjustment procedures of drum, disc/drum, and four-wheel disc systems will be emphasized. Anti-lock Braking Systems (ABS) diagnostics, servicing, and repair procedures will also be covered. The course will cover common domestic and import passenger vehicles, and light trucks only. The course is designed in conjunction with Automotive Service Excellence (ASE) standards and subsequently will prepare the student for the ASE Brakes A5 Certification Examination.

**ATEC 133** **4.0 Units**

**Automotive Engine Repair**

*Prerequisite**: ATEC 070 (may enroll concurrently)*
*Course Advisory: ATEC 131*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 96-108 lab*

The study of four stroke combustion cycle theory, engine torque, horsepower, materials, and manufacturing processes as they relate to internal combustion powerplants used in production automobiles and light trucks. The theory, principles, and diagnosis of cooling systems, lubrication systems, and common engine mechanical failures will be emphasized. Laboratory will focus on comprehensive engine testing, in-vehicle engine servicing, engine disassembly/reassembly, precision measuring, and inspection of internal engine components. The course is designed in conjunction with Automotive Service Excellence (ASE) standards and subsequently will prepare the student for the ASE Engine Repair A1 Certification Examination.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# ATEC - Automotive Technology

**ATEC 134** **4.0 Units**

**Automatic Transmissions/Transaxles**

*Prerequisite**: ATEC 070 (may enroll concurrently).*
*Course Advisory: ATEC 131*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 96-108 lab.*

The study of hydraulic and electronically actuated automatic transmissions and transaxles. Topics will include positive and variable displacement pumps, torque converters, bands and clutches, hydraulic valves, electronic shift solenoids, governors, and common compound planetary gear arrangements. Laboratory will focus on diagnostic and overhaul procedures, in-vehicle testing, and bench testing of various components. The course is designed in conjunction with Automotive Service Excellence (ASE) standards and subsequently will prepare the student for the ASE Automatic Transmission A2 Certification Examination.

**ATEC 135** **4.0 Units**

**Automotive Engine Performance**

*Prerequisite**: ATEC 070 (may enroll concurrently)*
*Course Advisory: ATEC 131*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 96-108 lab*

Operation, troubleshooting and repair of the ignition, fuel and emission control systems of import and domestic passenger vehicles and light trucks. Emphasis is on theoretical knowledge and the proper use of diagnostic tools and equipment. The course is designed in conjunction with Automotive Service Excellence (ASE) standards and subsequently, will in part, prepare the student for the ASE Engine Performance A8 Certification Examination.

**ATEC 136** **4.0 Units**

**Automotive Manual Drivetrain and Axles**

*Prerequisite**: ATEC 070 (may enroll concurrently)*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 96-108 lab*

Theory and principles of manual transmissions/transaxles, clutches, driveshafts, half shafts, variable and constant velocity joints, differentials, rear wheel drive axle assemblies, all wheel drives, and four wheel drives. Gear types, ratios, and noise, vibration, harshness diagnostic routines will be discussed. Diagnosis, repair, overhaul, and adjustment procedures for common domestic, import, and light truck drivetrain components will be emphasized. The course is designed in conjunction with Automotive Service Excellence (ASE) standards and subsequently will prepare the student for the ASE Manual Transmission/Transaxle & Drivetrain A3 Certification Examination.

**ATEC 148A** **2.5 Units**

**Special Topics-Smog Check Level I**

*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 32-36 lab*

The Engine and Emission Control Training is intended to provide students with fundamental knowledge of engine and emission control theory, design and operation. Students who successfully complete this training will have met the first step of the Bureau of Automotive Repair's training requirements for inexperienced or minimally experienced candidates for the Smog Check Inspector license. The training is a minimum of 68 hours and must be completed at a Bureau of Automotive Repair (BAR) certified school. To pass Level 1 training, a student must successfully complete a series of hands-on assessments and pass a written examination. Experienced candidates may skip Level 1 training if they: Possess ASE A6, A8 and L1 certification; or possess an AA/AS Degree or Certificate in automotive technology and have 1 year experience; or have 2 years experience and have completed BAR specified diagnostic and repair training.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Biology

## Associate in Science in Biology for Transfer (ADT: A.S.-T.)

**Program Description**
The Associate in Science in Biology for Transfer prepares students to seamlessly transfer to the California State University (CSU) system as a Biology major. 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 are accepted into the Biology major will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree gives students the Biology, Mathematics, Chemistry, and Physics knowledge that allows them to succeed in upper division courses after transfer. In the major, students gain knowledge of biological molecules, cell structure and function, bioenergetics, Mendelian and molecular genetics, microbiology, plant biology, evolution, ecology, biodiversity, and biotechnology. In the laboratory students learn experimental design including data collection and analysis, keeping a legal laboratory notebook, and reporting the results in a standard scientific journal format. The Biology courses give students an extensive laboratory experience where they gain essential skills required to study and manipulate macromolecules, aseptically transfer cells, work with the common model organisms used in Biology research, and carry out a field study.

**Associate in Science in Biology for Transfer**
Students who complete this degree will be guaranteed admission with junior status to the California State University system, though not to a particular campus or Major.

**The Associate in Science in Biology for Transfer requires:**
1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Science in Biology for Transfer will be able to:
1. Design and/or interpret an investigation, including data collection and/or analysis.
2. Describe the molecular basis of genetics and energetics.
3. Explain the principles and mechanisms of microevolution and macroevolution.

| **REQUIRED COURSES** | **Units** |
|---|---|
| BIO 002 Cell and Molecular Biology | 5 |
| BIO 003 Evolution, Ecology & Biodiversity | 5 |
| CHEM 001 General Chemistry I | 5 |
| CHEM 002 General Chemistry II | 5 |
| MATH 020 Analytic Geometry and Calculus I | 4 |
| Select List A or List B | 10 |
| **Required Major Total Units** | **34** |

| **List A** | **Units** |
|---|---|
| PHYS 002 General (Non-Calculus) | 5 |
| PHYS 004 General (Non-Calculus) | 5 |

| **List B** | **Units** |
|---|---|
| PHYS 006 for Science and Engineering | 5 |
| PHYS 007 for Science and Engineering | 5 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

## Biology

*Associate in Science*

**Program Description**

This degree has been designed for students planning on transferring to a University of California (UC) campus as a Biology, Cell Biology, Molecular Biology, or Biochemistry major. The program incorporates a study of the mathematics, chemistry, and biology required to understand and research biological processes including cell biology, molecular biology, bioenergetics, genetics, population genetics, microbiology, evolution, developmental biology, ecology, biodiversity, and biotechnology.

The Associate in Science can be obtained by completing the 40-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Biology Associate in Science will be able to:

1. Design and/or interpret an investigation, including data collection and/or analysis.
2. Describe the molecular basis of genetics and energetics.
3. Explain the principles and mechanisms of microevolution and macroevolution.

| **REQUIRED COURSES** | **Units** |
|---|---|
| BIO 002 Cell and Molecular Biology | 5 |
| BIO 003 Evolution, Ecology & Biodiversity | 5 |
| CHEM 001 General Chemistry I | 5 |
| CHEM 002 General Chemistry II | 5 |
| CHEM 003 Organic Chemistry I | 5 |
| CHEM 004 Organic Chemistry II | 5 |
| MATH 020 Analytic Geometry and Calculus I | 4 |
| MATH 021 Analytic Geometry and Calculus II | 4 |
| **Required Major Total Units** | **38** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Biology

## Biomedical Sciences

*Certificate of Achievement and Associate in Science*

**Program Description**

The Biomedical Sciences program prepares students to transfer into a health care profession program offered at a community college or a four year institution. These fields include nursing, respiratory therapy, radiological science, physical therapy, occupational health, dental assistant, and dental hygiene. The degree provides basic knowledge in chemistry, microbiology, human anatomy, and human physiology. These are the common prerequisites for community college and university allied health majors.

The Certificate of Achievement can be obtained upon completion of the 18-19-unit major. The Associate in Science can be obtained by completing the 18-19-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for the major must be completed with a minimum grade of C or a grade of P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Biomedical Sciences Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate knowledge of the structure and function of the major organ systems of the human body.
2. Demonstrate knowledge of the normal physiological functions of the organ systems and explain how disturbances of normal physiological functions lead to metabolic and physiological disorders (clinical applications).
3. Demonstrate knowledge of how microorganisms interact with the human body and describe how these interactions lead to health or human disease

| **REQUIRED COURSES** | **Units** |
|---|---|
| BIO 004 Human Anatomy | 5 |
| BIO 005 Human Physiology | 5 |
| BIO 014 Principles of Microbiology | 4 |
| One course from Chemistry List | 4-5 |
| **Required Major Total Units** | **18-19** |

| **Chemistry List: (select one course)** | **Units** |
|---|---|
| CHEM 001 General Chemistry I | 5 |
| CHEM 010 Intermediate Chemistry | 4 |
| CHEM 012 Chemistry for the Health Sciences | 5 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# BIO - Biology

**BIO 002 Cell and Molecular Biology 5.0 Units**
*C-ID: BIOL 190*
*Prerequisite**: CHEM 001*
*General Education: IGETC: Area 5B, 5C; CSU: Area B2, B3*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 96-108 lab*
This course, intended for biology majors, covers the structure and function of prokaryotic and eukaryotic cells, biological molecules, cell reproduction and its controls, Mendelian and molecular genetics, cell physiology and metabolism including cellular respiration and photosynthesis, cellular communication, and homeostasis. An extensive laboratory component teaches the techniques used in biotechnology to manipulate DNA and to study proteins.

**BIO 003 Evolution, Ecology & Biodiversity 5.0 Units**
*C-ID: BIOL 140*
*Prerequisite**: BIO 002*
*General Education: IGETC: Area 5B, Area 5C; CSU: Area B2, B3*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 96-108 lab*
This course for biology majors covers evolution, ecology, and the diversity of life. The laboratory component includes invertebrate and vertebrate dissection. *Field trips may be required with some involving a fee.*

**BIO 004 Human Anatomy 5.0 Units**
*C-ID: BIOL 110B*
*Course Advisory: BIO 016 and BIO 016L strongly recommended*
*General Education: SCC: Area C; IGETC: Area 5B, 5C; CSU: Area B2, B3*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 96-108 lab*
A study of the structural organization of the human body, from cellular to organismal level. Throughout the course, various types of instruction are used, including microscopic investigation of prepared slides of tissues and organs, gross (macroscopic) anatomical dissection, and examination of prosected human material. (Formerly BIO 006)

**BIO 005 Human Physiology 5.0 Units**
*C-ID: BIOL 120B*
*Prerequisite**: BIO 004 and CHEM 001, CHEM 010 or CHEM 012*
*General Education: IGETC: Area 5B, 5C; CSU: Area B2, B3*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 96-108 lab*
A description of physiological and homeostatic mechanisms of the body systems in health and disease. The laboratory relates structure to function, uses instrumentation to measure physiological variables, and enables students to critically evaluate functional status.

**BIO 012 Environmental Science 3.0 Units**
*General Education: SCC: Area C; IGETC: Area 5B; CSU: Area B2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Examines environmental issues from a scientific perspective by using an understanding of the physical, chemical, and biological processes of the Earth system to examine the interaction between humans and these processes. Topics include ecological principles, biodiversity, human population growth, climate change, air and water pollution, solid waste management, and the management of renewable and non-renewable energy, water, land, soil, and mineral resources. The course utilizes knowledge of these subject to find solutions to environmental challenges.
*Field trips may be required.*

**BIO 012L Environmental Science Laboratory 1.5 Units**
*Prerequisite**: BIO 012 (may enroll concurrently)*
*General Education: IGETC: Area 5C; CSU: Area B3*
*Transferable to UC/CSU; UC limitation: Must be taken after or concurrently with BIO 012 to receive transfer credit*
*Hours: 8-9 lecture, 48-54 lab*
A course that uses laboratory and mandatory fieldtrip techniques to examine the ecological roles of organisms, resource use, and pollution/waste.
*Field trips may be required.*

**BIO 014 Principles of Microbiology 4.0 Units**
*Prerequisite**: CHEM 001, CHEM 010, or CHEM 012*
*General Education: IGETC: Area 5B, 5C; CSU: Area B2, B3*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 48-54 lab*
The study of the structure, morphology, physiology, genetics, diversity, evolution, and ecology of microorganisms. The course also includes principles of immunology, the control of microbes, and their relationship to disease control and prevention. Laboratory exercises cover microscopy, staining, aseptic techniques, identification, and microbial growth

**BIO 015 Introduction to Biology 4.0 Units**
*General Education: SCC: Area C; IGETC: Area 5B, 5C; CSU: Area B2, B3*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 48-54 lab*
Intended for non-science majors, a survey of biology including biological chemistry, cell structure and function, genetics, evolution, and ecology. The laboratory component emphasizes the scientific method to reinforce lecture concepts. *Off-campus field trips may be scheduled.* NOTE: Not open for credit to students who have completed BIO 003.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# BIO - Biology

**BIO 016 Introduction to Human Biology 3.0 Units**
*General Education: SCC: Area C; IGETC: Area 5B; CSU: Area B2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An introduction to general biology with emphasis on the human model. Topics include cell structure and function, human evolution, anatomy and physiology, genetics, and the human impact on the environment. This is a course for non-majors. NOTE: Not open for credit to students who have completed BIO 001, 002, 004, 005, 010 or 015.

**BIO 016L Human Biology Laboratory 1.5 Units**
*Prerequisite**: BIO 016 (may enroll concurrently)*
*General Education: IGETC: Area 5C; CSU: Area B3*
*Transferable to UC/CSU; UC limitation: Must be taken after or concurrently with BIO 016 to receive transfer credit*
*Hours: 8-9 lecture, 48-54 lab*
A non-majors laboratory course providing an introduction to general biology with an emphasis on the human model. Topics include microscopy, cell structure and function, human anatomy and physiology, genetics and the human impact on the environment. *Off-campus field trips may be required and may involve a fee.* This course is for non-majors. Note: Not open for credit to students who have completed BIO 002, 003, 004, 005 or 015.

**BIO 018 Biology Of Sex 3.0 Units**
*General Education: SCC: Area C; IGETC: Area 5B; CSU: Area B2, E*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
The biology behind sex and gender in humans is the focus of this course. We will discuss the development of human reproductive systems and how they are designed to function for pleasure and reproduction. We will learn about genetic disorders and acquired diseases that can interfere with these normal functions. *This course is designed for non-majors.*

**BIO 019 Marine Biology 4.0 Units**
*General Education: SCC: Area C; IGETC: Area 5B, 5C; CSU: Area B2, B3*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 48-54 lab*
A non-majors course that studies the diversity and natural history of life in the marine environment with an emphasis on the adaptations of organisms to their environment. *Field trips may be required. Some field trips may involve a fee.* This course is for non-majors. NOTE: This course is not open for credit to students who have completed BIO 001 or 002.

**BIO 020 3.0 Units**
**Infectious Disease, Plagues, and Public Health**
*General Education: SCC: Area C; IGETC: Area 5B; CSU: Area B2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Examine infectious disease and the changing disease landscape from the molecular to the ecological level. Topics include cell structure and function, microorganisms, immunity, epidemiology, historical plagues, emerging diseases, prevention and treatment, and conditions that promote novel disease emergence. This is a course designed for non-science majors.

**BIO 025 Human Genetics 3.0 Units**
*General Education: SCC: Area C; IGETC: Area 5B; CSU: Area B2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Designed for non-science majors to provide an understanding of basic principles of genetics, current developments in genetics, and the influence of genes and the environment in determining human characteristics. *This course is for non-science majors.*

**BIO 047 Independent Study 0.5 to 3.0 Units**
*Prerequisite**: A minimum grade of C in 12.0 Units of credit, including 4.0 Units from within the discipline*
*Course Advisory: MATH 011 may be useful for data analysis*
*Transferable to CSU*
*Hours: 48-162 lab by arrangement*
A course of independent study designed for students who intend to major in biological sciences or pre-professional programs. *Students may take this course up to the maximum number of units over multiple semesters.*

**BIO 049 Biology Honors 1.0 to 3.0 Units**
*Prerequisite**: Eligibility for Honors Program; BIO 002, BIO 005 (either of these courses may be taken concurrently).*
*Transferable to CSU*
*Hours: 24-162 lab by arrangement*
This course requires students to complete an independent student project under the supervision of a member of the faculty. The project may be a laboratory or field study or a library study that leads to a thesis. In all cases, the final written product should show integration and synthesis of ideas. *Students may take this course up to the maximum number of units over multiple semesters.*

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# BIO - Biology

**BIO 099** **0.5 to 2.0 Units**

**Biology Honors: Special Dissection**

*Prerequisite**: Completion of 24.0 units of college credit with a minimum GPA of 3.3; BIO 004 with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability.*

*Transferable to CSU*

*Hours: 24-108 lab by arrangement*

An independent study project designed to increase understanding of human anatomy through detailed dissection and other projects assigned by the supervising instructor. The student will be evaluated through oral examination and evaluation of dissections. *This course is an Open Entry/Open Exit course. Students may continue BIO 099 over multiple semesters not to exceed 2.0 units.*

**BIO 101 How to Study Science** **0.5 Units**

*Non-transferable to UC or CSU*

*Hours: 8-9 lab*

A step-by-step approach for success in transferable science courses. Topics include: overcoming science anxiety; learning how science courses are organized; how best to learn and retain scientific information; how to use science textbooks, common scientific terms, and symbols; how to analyze figures; how to develop test-taking skills to prepare for lecture and laboratory tests; and more.

**BIO 160** **2.5 Units**

**Review of Scientific Principles of Pre-Nursing**

*Prerequisite**: Current acceptance or on the waiting list of an RN Program.*

*Non-transferable to UC or CSU*

*Hours: 40-45 lecture.*

A focus on science and mathematics topics that are critical to success for students entering an RN program. Providing a clinically pertinent review of select anatomy, physiology, nutrition, and microbiology topics for students entering nursing school. Especially designed for students that have had an extended time period between finishing their pre-nursing requirements and entering nursing school. This course is taught by a panel of experts in the field. Case studies are extensively used in order to contextualize the material. *This is a Pass/No Pass only course.*

# Biotechnology

## Biomanufacturing

*Bachelor of Science (Baccalaureate)*

Solano Community College is one of fifteen community colleges in the state of California to offer a pilot four year, or baccalaureate, degree. Solano Community College's degree is a Bachelor of Science in Biomanufacturing. In biomanufacturing scientists develop techniques to grow genetically engineered cells (bacterial, yeast, or animal cells) in large tanks called bioreactors and develop methods to purify the protein that the cells produce. Then technicians use analytical techniques to prove the purity of the isolated protein. In the future Biomanufacturing will be expanded to include the industrial production of biofuels, biomaterials, stem cells, and other products currently manufactured using chemical rather than biological techniques.

**Program Description**

The Biomanufacturing program builds upon the Associate in Science in Industrial Biotechnology. In the baccalaureate program students gain knowledge in biology, chemistry, engineering, statistics, quality, regulatory affairs, and business. Students use biomanufacturing laboratory facilities to gain process development skills. Many of the courses have been designed with curriculum that aligns with the requirements of certifications from professional organizations.

The Bachelor of Science is awarded upon successful completion of a total of 120 units that include 60 lower-division units and ten upper-division major courses, three upper division general education courses, and electives. All courses in the major must be completed with a minimum grade of C.

**Program Outcomes**

**Technology:**

1. Identify and critically analyze two viable options for a biomanufacturing process. The critical analysis will include the technical, financial, and environmental impact of the two options as well as the identification of the benefits and disadvantages of each.
2. Produce a professional report and presentation representing their opinion regarding the advantages of selecting a specific biomanufacturing process.

**Quality:**

3. Demonstrate the skills needed to conduct an investigation and analysis of an Out of Specification deviation that occurred during a production step in the manufacturing of a pharmaceutical protein. The student will be able to determine the impact of the OOS deviation on the batch of protein.
4. Produce a written Corrective Action Preventative Action report in a format standard to the industry. The report will include evidence to justify their conclusions and action plan.
5. Demonstrate the ability to apply Quality by Design (QbD) principles (understanding of the product, the process, and the process control) as adopted by the U.S. Food and Drug Administration (FDA) to design a robust, stable, and controlled manufacturing process for a protein pharmaceutical that can be carried out under current Good Manufacturing Practices (cGMPs). This includes the ability to predetermine values and potential ranges of the critical quality attributes (CQAs) of the product and the critical material attributes (CMAs) of the materials. Students will also be able to determine which parameters would benefit from a Design of Experiments (DoE) approach for their optimization, and construct a strategy for experimental planning and data analysis.
6. Use a quality risk assessment approach to perform a criticality assessment to determine the Critical Process Parameters (CPPs) that would need to be monitored and controlled.

# Biotechnology

**Program Requirements and Courses**
The program has been designed to follow a cohort model: all students take all of the courses in order.

**REQUIRED COURSES**

| **First Semester** | **Units** |
|---|---|
| BIOT 401 Biomanufacturing Process Sciences | 5 |
| BIOT 407 Advanced Topics in Quality Assurance and Regulatory Affairs | 4 |
| ENGL 400 Advanced Technical Writing: Writing in the Scientific Professions | 3 |

| **Second Semester** | **Units** |
|---|---|
| BIOT 402 Design of Experiments for Biomanufacturing | 4 |
| BIOT 403 Design of Biomanufacturing Facilities, Critical Utilities, Processes, and Equipment | 4 |
| BIOT 404 Bioprocess Monitoring and Control | 5 |

| **Third Semester** | **Units** |
|---|---|
| BIOT 405 Emerging Biomanufacturing Technologies | 3 |
| BIOT 406 Supply Chain and Enterprise Resource Planning | 3 |
| BIOT 408 Six Sigma and Lean Manufacturing | 4 |
| PHIL 400 Bioethics | 3 |

| **Fourth Semester** | **Units** |
|---|---|
| BIOT 409 Methods in Quality Improvements, Investigations and Audits | 4 |
| BIOT 410 Emerging Trends in Biomanufacturing Quality | 3 |
| BUS 400 Project Management | 3 |
| **Total Units** | **48 Units** |

## Biomanufacturing Program Eligibility Requirements

The Biomanufacturing Bachelor of Science program admits students once per year in the fall. Eligibility requirements, application process, and related information is available online at ***http://www.solano.edu/biomanufacturing.***

All of the following requirements must be met in order to apply to the Biomanufacturing program. For any questions about these items, meet with an Academic Counselor. For counseling information, please visit ***http://www.solano.edu/counseling/***.

1. Overall cumulative grade point average (GPA) of 2.5 for ALL college coursework.
2. Completion of, or current Spring semester enrollment in Biomanufacturing Program Prerequisites:

   *Courses must be completed with a minimum grade of C and with a combined GPA of 2.5*

   BIO 002 Cell and Molecular BIology ..... 5
   BIOT 001 Principles of Biotechnology..... 3
   BIOT 052 Business, Regulatory, and Quality Practices in Biotechnology ..... 3
   BIOT 062 Cell Culture and Protein Recovery..... 4
   BIOT 063 Biotechnology Intrumentation: Quality Control & Genetic Engineering ..... 4
   CHEM 001 General Chemistry I ..... 5
   MATH 011 Elementary Statistics..... 4
3. Completion of lower division IGETC or CSU General Education Breadth.
4. Applicants who have attended college outside the United States must have transcripts evaluated by a National Association of Credential Evaluation Services (NACES) approved independent agency, demonstrating equivalency to the Program Eligibility requirements (1, 2, & 3).
5. One Statement of Interest, submitted with your application, explaining why you are interested in the program. Topic below:

   Write a Statement of Interest that explains why you would like to complete the Bachelor of Science degree in Biomanufacturing. In this essay, state how your background in the prerequisite courses and/or any job experience has prepared you to succeed in this rigorous program. Emphasize your laboratory background. Include any life experience, special circumstances or barriers that you had to overcome while completing the prerequisite courses.
6. Submit unofficial Transcripts
7. For additional application and acceptance information go to https://welcome.solano.edu/biomanufacturing/

# Biotechnology

## Industrial Biotechnology

*Associate in Science*

**Program Description**

This program prepares graduates to work in the biotechnology industry as production technicians. A production technician operates and maintains the equipment used to manufacture protein pharmaceuticals or other products. Students will grow bacterial, yeast, and mammalian cells and recover the proteins that they produce. They will follow good manufacturing practices by maintaining records in order to comply with quality assurance procedures and government regulations. Students in the program must be able to adjust their time to a flexible schedule.

The Associate in Science can be obtained upon completion of the 22-24 unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Industrial Biotechnology Associate in Science will be able to:

1. Explain how the structure and function of protein pharmaceuticals and evaluate which protein properties a production facility can exploit to purify a particular protein from other cellular components.
2. Construct a pathway analyzing how a drug or biologic is produced by genetically engineered cells and subsequently purified.
3. Explain how the manufacturer of pharmaceuticals is regulated by the Food and Drug Administration and other international regulatory agencies and how quality systems assure the safety, purity, identity, consistency, potency, and stability of a product.

| **REQUIRED COURSES** | **Units** |
|---|---|
| BIOT 001 Principles of Biotechnology | 3 |
| BIOT 052 Business, Regulatory and Quality Practices in Biotechnology | 3 |
| BIOT 062 Cell Culture and Protein Recovery | 4 |
| BIOT 063 Biotechnology Instrumentation: Quality Control & Genetic Engineering | 4 |
| Select Option A or Option B | 8-10 |
| **Required Major Total Units** | **22-24** |

| **Option A** | **Units** |
|---|---|
| BIO 002 Principles of Cell and Molecular Biology | 5 |
| CHEM 001 General Chemistry I | 5 |

| **Option B** | **Units** |
|---|---|
| BIO 014 Principles of Microbiology | 4 |
| CHEM 010 Intermediate Chemistry | 4 |

**NOTE: Prior knowledge and use of computers is advised, including word processing, spreadsheets, and databases.**

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Biotechnology

## Industrial Biotechnology

*Certificate of Achievement*

**Program Description**

This program prepares graduates to work in the biotechnology industry as production technicians. A production technician operates and maintains the equipment used to manufacture protein pharmaceuticals and other products. Students will grow bacterial, yeast, and mammalian cells and recover the proteins that they produce. They will follow good manufacturing practices by maintaining records in order to comply with quality assurance procedures and government regulations. Students in the program must be able to adjust their time to a flexible schedule.

The Certificate of Achievement can be obtained upon completion of the 18-24-unit major. Each course must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Industrial Biotechnology Certificate of Achievement will be able to:

1. Explain how the structure and function of protein pharmaceuticals and evaluate which protein properties a production facility can exploit to purify a particular protein from other cellular components.
2. In preparation to working at a biotechnology company, a successful student should be able to construct a pathway analyzing how a drug of biologic is produced by genetically engineered cells and subsequently purified.
3. Explain how the manufacturer of pharmaceuticals is regulated by the Food and Drug Administration and other international agencies and how quality systems assure the safety, purity, identity, consistency, potency, and stability of a product.

| **REQUIRED COURSES** | **Units** |
|---|---|
| BIOT 001 Principles of Biotechnology | 3 |
| BIOT 052 Business, Regulatory and quality Practices in Biotechnology | 3 |
| BIOT 062 Cell Culture and Protein Recovery | 4 |
| BIOT 063 Biotechnology Instrumentation: Quality Control & Genetic Engineering | 4 |
| Choose Option A, B or C | 4-10 |
| **Required Major Total Units** | **18-24** |

| **Option A** | **Units** |
|---|---|
| BIO 002 Principles of Cell and Molecular Biology | 5 |
| CHEM 001 General Chemistry I | 5 |

| **Option B** | **Units** |
|---|---|
| BIO 014 Principles of Microbiology | 4 |
| CHEM 010 Intermediate Chemistry | 4 |

| **Option C** | **Units** |
|---|---|
| BIOT 160 Basic Concepts/Methods in Biotechnology | 4 |

**NOTE: Prior knowledge and use of computers is advised, including word processing, spreadsheets, and databases.**

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# Biotechnology

## Biotechnology Laboratory Assistant

*Certificate of Achievement*

**Program Description**

This program serves as a Bridge to Biosciences, enabling graduates to enter the Solano College Industrial Biotechnology program or to enter an entry level position in a biotechnology company. It serves as a stackable certificate that may be followed by Industrial Biotechnology Certificate. A Laboratory Assistant may be hired by life science related companies to prepare buffers, prepare media, operate routine laboratory equipment, and to clean glassware.

The Certificate of Achievement can be obtained upon completion of the 12-14-unit major with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Biotechnology Laboratory Certificate of Achievement will be able to:

1. Demonstrate the ability to perform mathematical (algebraic) operations required for calculations important in chemistry and biology
2. Demonstrate the ability to read and write in a range of writing style categories typical of laboratory and scholarly environments, including lab reports, expository texts, and research-based arguments.
3. Demonstrate the ability to perform routine laboratory techniques including buffer preparation, media preparation, and aseptic microbial culture.

**REQUIRED COURSES**.....**Units**

**English** (select one course)..... **4-5**
ENGL 001 College Composition ..... 4
ENGL 001E College Composition for Non-native English Speakers ..... 5
ENGL 001X College Composition with Support ..... 5

**Mathematics** (select one course)..... **3-4**
MATH 011 Elementary Statistics ..... 4
MATH 012 Mathematical Ideas ..... 3

**Biotechnology** (select one course)..... **4**
BIOT 160 Basic Concepts/Methods in Biotechnology .... 4
BIOT 010 Introductory Biotechnology ..... 4

**Learning Resources** ..... **1**
LR010 - Information Skills for College and Beyond ..... 1
**Total Units: .....14**

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Biotechnology

## Cell and Gene Therapies

*Certificate of Achievement*

**Program Description**

This program trains students to enter the emerging fields of gene therapy (with the production of viral vectors) and cell therapy including the production of CAR-T cells as a cancer therapy and stems cells for use in regenerative medicine.

The Certificate of Achievement can be obtained by completing the 24-29-unit major. All courses must be completed with a minimum grade of C or a grade of P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Stem Cells and Cell-Based Technologies Certificate of Achievement will be able to:

1. Apply knowledge of the regulation of the Food and Drug Administration and other international regulatory agencies of cell-based therapeutic agents.
2. Apply knowledge of cell biology concepts to prepare and maintain cells in culture while maintaining sterility stem cells must be able to be cultured in an undifferentiated state or induced to differentiate into different cell types.
3. Follow the appropriate procedures to maintain controlled documents: In a research setting, students will keep a research laboratory notebook using a standard legal format. In a manufacturing setting, students will keep the appropriate controlled documents

**REQUIRED COURSES** ..... **Units**
BIOT 001 Principles of Biotechnology ..... 3
BIOT 052 Business and Regulatory Practices in Biotechnology ..... 3
BIOT 057 Synthetic Biology and Algae Biotechnology ..... 3
BIOT 060 Mammalian Cell Culture ..... 3
BIOT 061 Stem Cells and Cell-Based Technologies ..... 3
One course from Biomanufacturing List ..... 1-4
One course from Biology List ..... 4-5
One course from the Chemistry List ..... 4-5
**Total Units: ..... 24-29**

**Biomanufacturing: ..... Units**
BIOT 062 Cell Culture and Protein Recovery ..... 4
BIOT 065 Biomanufacturing Fundamentals ..... 1

**Biology ..... Units**
BIO 002 Cell and Molecular Biology ..... 5
BIO 014 Principles of Microbiology ..... 4

**Chemistry ..... Units**
CHEM 001 General Chemistry ..... 5
CHEM 010 Intermediate Chemistry ..... 4
CHEM 012 Chemistry for the Health Sciences ..... 5

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# BIOT - Biotechnology

**BIOT 001 Principles of Biotechnology 3.0 Units**

*C-ID: BIOT 101X*
*Prerequisite**: BIO 014, BIO 002, BIOT 010 or BIOT 160*
*General Education: SCC: Area C; IGETC: Area 5B; CSU: Area B2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

Covering topics important in the development, production, recovery, and analysis of products produced by biotechnology. The course traces the path of a drug or biologic from the cell through the production facility, the final processing, and into the human body. It discusses the growth characteristics of the organisms used to produce pharmaceutical proteins, the techniques used in product recovery, and the techniques used in product analysis. (Formerly BIOT 051)

**BIOT 003 3.0 Units**

**Fermentation: The Science of Beer and Brewing**

*Prerequisite**: Must be at least 18 years of age to enroll*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 48-54 lab*

Beer making, the oldest biotechnology process, is used to introduce students to the concept of employing living cells to produce a value-added product. The course utilizes brewing principles to explore basic scientific, agricultural, and engineering principles: yeast cell structure and growth, cellular biochemistry including metabolism and fermentation, plant physiology and the agricultural practices used to grow different varieties of barley and hops, the biochemistry of malted barley and hops, the chemical reactions that occur during mashing and brewing, and the basic engineering of brewing equipment and processes. The course also covers business, regulatory, and cultural issues related to brewing. In the laboratory, students will brew beer using modern techniques and equipment. This class is limited to students 18 and over and no one under the age of 21 will be able to taste a fermented product.

**BIOT 010 4.0 Units**

**Introductory Biotechnology**

*General Education: SCC: Area C; IGETC: Area 5B*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 48-54 lab*

An application of biological principles as they relate to the field of biotechnology that applies these principles to produce products, especially medicines. Topics include the fundamental chemical processes common in prokaryotic and eukaryotic organisms, the structure and function of biological molecules (proteins, enzymes, nucleic acids, and lipids), principles of cellular and molecular biology, basic immunology, and classical and molecular genetics with an emphasis on gene expression and genetic engineering. The laboratory addresses the core skills and techniques common to the biotechnology industry. *This course is intended for students exploring a major in Biotechnology and as a general education option for all students.*

**BIOT 052 3.0 Units**

**Business, Regulatory, and Quality Practices in Biotechnology**

*Transferable to CSU*
*Hours: 48-54 lecture*

Examine how basic business principles and sound manufacturing procedures assure the quality and safety of a biopharmaceutical as the manufacturing team moves a product down the biotechnology production pipeline. The course explores the role of governmental oversight, Quality Assurance practices, and regulation during the discovery, development, and manufacturing of new products produced by biotechnology. The course includes a discussion of current Good Manufacturing Practices, Good Laboratory Practices, Quality Assurance, Quality Control, and Validation.

# BIOT - Biotechnology

**BIOT 057** **3.0 Units**

**Synthetic Biology and Algea Biotechnology**

*Prerequisite**: BIO 002 or BIO 014*
*Transferable to CSU*
*Hours: 32-36 lecture, 48-54 lab*

Combines two emerging areas in biotechnology through exploration of advances in synthetic biology and algae biotechnology. Synthetic biology applies advanced gene editing techniques for the creation of new organisms. Topics include synthetic DNA synthesis, minimal cells, manipulation of biobricks, gene circuits, CRISPR/Cas and other gene editing tools, and cell free production. These techniques can be utilized to produce biomaterials, DNA for gene therapy, and algae bio-based production. Students isolate, identify, manipulate, grow, monitor, and harvest algae for biofuels, nutraceuticals, industrial enzymes, and therapeutic proteins in the laboratory.

**BIOT 060** **3.0 Units**

**Mammalian Cell Culture**

*C-ID: BIOT 230X*
*Prerequisite**: BIO 002 or BIO 014*
*Transferable to CSU*
*Hours: 16-18 lecture, 96-108 lab*

Lab-intensive course on mammalian cell culture techniques that include working under aseptic conditions, sterile techniques in a biosafety cabinet (laminar flow hood), media preparation, quantification and passage of cells, and cryopreservation of cell lines. Laboratory experience prepares students for work in industry. Students may be required to perform laboratory tasks outside of class hours to care for cells.

**BIOT 061** **3.0 Units**

**Stem Cells and Gene Therapy Vectors**

*Prerequisite**: BIO 002 or BIO 014*
*Transferable to CSU*
*Hours: 16-18 lecture, 96-108 lab*

Covers the principles of stem cell biology, cell therapies (like CAR-T treatments of cancer), and the production of virus vectors for gene therapies. Topics include the technological and regulatory considerations required to generate immune cells or stem cells as therapy agents and the manufacturing techniques used to generate virus vectors for gene therapy or to transduce cells. This includes the growth of embryonic stem cells, adult stem cells, induced pluripotent stem cells, and the ethical issues involved in stem cell research. Emphasis on laboratory techniques including culture and analysis of cells, and the use of several methods of cell culture used in the production of viruses.

**BIOT 062 Cell Culture and Protein Recovery** **4.0 Units**

*Prerequisite**: BIO 002, BIO 014 or BIOT 010*
*Transferable to CSU*
*Hours: 32-36 lecture, 96-108 lab*

This laboratory course teaches the skills needed to serve as a technician in biotechnology production. Students grow and monitor bacterial, yeast, and mammalian cells on a laboratory scale that emulates the large-scale production used in industry. Students will become familiar with the cleaning, sterilization, aseptic inoculation, operation, and monitoring of fermenters and bioreactors. Students then recover and purify proteins produced by those cell cultures. They recover and purify proteins using centrifugation, ultrafiltration, and chromatography techniques. The course emphasizes the use of current Good Manufacturing Practices (cGMP), and students gain experience following Standard Operating Procedures (SOP).

**BIOT 063** **4.0 Units**

**Biotechnology Instrumentation: Quality Control & Genetic Engineering**

*Prerequisite**: BIO 014, BIO 002, BIOT 010, or BIOT 160*
*Transferable to CSU*
*Hours: 32-36 lecture, 96-108 lab*

Familiarizes students with small scale laboratory practices, both those used in a research laboratory and those used by a quality control department in industry, to analyze the quality of a cell culture process and the purity of protein products produced by cells in culture. The course emphasizes the use of Good Laboratory Practices (GLP) in these analyses. Students will gain experience in techniques used to analyze nucleic acids and in the genetic engineering of cells. They will also gain experience with the common assays used in Quality Control including electrophoresis, High Performance Liquid Chromatography (HPLC), Enzyme Linked Immunosorbant Assay (ELISA), and Polymerase Chain Reaction (PCR) to test products generated using cell culture.

**BIOT 065** **1.0 Unit**

**Biomanufacturing Fundamentals**

*Prerequisite**: BIO 002 or BIO 014*
*Transferable to CSU*
*Hours: 8-9 lecture, 24-27 lab*

Explore the basic biological, chemical, engineering, and regulatory concepts utilized to manufacture products using genetically engineered cells. This course covers host strain selection, cell banking and seed train, bioreactor operation and monitoring, recovery and purification techniques, and the regulatory environment required for biomanufacturing of products at a large scale.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# BIOT - Biotechnology

**BIOT 066** **4.0 Units**

**Principles and Practice of Biomanufacturing**

*Prerequisite**: BIO 002 or BIO 014*
*Hours: 48-54 lecture, 96-108 lab*

Provides conceptual knowledge and hands-on training related to the manufacture of biological molecules using genetically engineered cells. Students will learn cell culture techniques that include working under aseptic conditions, sterile techniques, media preparation, cell and molecule quantification, and the scale-up of cell cultures. Students will inoculate, monitor growth, and harvest cultures from bioreactors. This course also covers protein recovery, concentration, and purification techniques including sample preparation, tangential flow filtration, column chromatograph, and the use of assays for purification analysis. Students will become familiar with the regulatory environment of biomanufacturing including current Good Manufacturing Process (cGMP), Standard Operating Procedures (SOP's), and production batch records.

**BIOT 160** **4.0 Units**

**Basic Concepts/Methods in Biotechnology**

*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 96-108 lab*

This course serves as a prerequisite to Solano College's biotechnology courses by giving students knowledge of the basic concepts in biology and chemistry used in biotechnology while also developing the basic laboratory skills required to succeed in the field.

**BIOT 401** **5.0 Units**

**Biomanufacturing Process Sciences and Engineering Principles**

*Prerequisite**: Admission into the Biomanufacturing Baccalaureate program. MATH 011*
*Transferable to CSU*
*Hours: 48-54 lecture, 96-108 lab*

Builds upon the scientific knowledge underlying chemical engineering principles (for example fluid flow, mass transfer, heat transfer, and the energy relationship of fluid systems) to design, develop, and optimize key parameters in a biomanufacturing process. Process development includes the optimization of media composition, fermenter and bioreactor design, the design of downstream processes, instrumentation, engineering systems, and process control systems to maximize the yield and integrity of a protein pharmaceutical.

**BIOT 402** **4.0 Units**

**Design of Experiments for Biomanufacturing**

*Prerequisite**: Admission into the Biomanufacturing Baccalaureate program and MATH 011*
*Transferable to CSU*
*Hours: 48-54 lecture, 48-54 lab*

Teaches the formal approach called Design of Experiments (DoE), a system that optimizes a process through the methodical varying of key parameters and a formalized approach to the analysis, interpretation, and application of the results. DoE is designed to make any process more robust and to minimize variability from external sources. The course builds upon the statistical concepts required for DoE including hypothesis testing, confidence intervals, statistical models, and analysis of variance (ANOVA). The DoE approach systematically varies the parameters of a biomanufacturing project to improve its operation.

**BIOT 403** **4.0 Units**

**Design of Biomanufacturing Facilities, Critical Utilities, Processes, and Equipment**

*Prerequisite**: Admission into the Biomanufacturing Baccalaureate program. Permission of faculty*
*Transferable to CSU*
*Hours: 64-72 lecture*

Students analyze and evaluate how the design of a biomanufacturing facility uses one-way personnel flow and one-way material flow to maintain appropriate levels of cleanliness and sterility to promote the production of safe and effective products. Students analyze the design of the processes, equipment, and instrumentation used in biological production to generate critical utilities, aseptic systems, environmental control and monitoring, upstream production, and downstream (recovery and purification) production within a regulated environment.

**BIOT 404 Bioprocess Monitoring and Control** **5.0 Units**

*Prerequisite**: BIOT 401*
*Transferable to CSU*
*Hours: 48-54 lecture, 96-108 lab*

Covers the measurement, monitoring, modeling, and control of biomanufacturing processes and the statistical methodology used for measuring, analyzing, and controlling quality during the manufacturing process including control charts and the analysis of process capabilities.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
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# BIOT - Biotechnology

**BIOT 405** **3.0 Units**

**Emerging Biomanufacturing Technologies**

*Prerequisite**: BIOT 401*
*Transferable to CSU*
*Hours: 48-54 lecture*

Focuses on biomanufacturing advances and emerging technologies in biological production and protein purification operations. In the course students compare the advantages and disadvantages of the new technology to the traditional technologies and approaches.

**BIOT 406** **3.0 Units**

**Supply Chain and Enterprise Resource Planning in Biomanufacturing**

*Transferable to CSU*
*Hours: 48-54 lecture*

Students gain knowledge of how companies manage the complete flow of materials in a supply chain from suppliers to customers. This course covers the design, planning, execution, monitoring, and control of raw materials, personnel resources, inventory management, and distribution. At the end students will have the knowledge required to take the CPIM (Certified in Production and Inventory Management) certification test administered by APICS (the American Production and Inventory Control Society).

**BIOT 407** **4.0 Units**

**Advanced Topics in Quality Assurance and Regulatory Affairs**

*Transferable to CSU*
*Hours: 64-72 lecture*

Builds upon previous knowledge of quality assurance and regulatory affairs to study the harmonized quality system approaches of ICH (International Committee on Harmonisation) Q8, Q9, Q10, and Q11. The course pays special attention to the topics of quality risk management, qualification, and validation. This course content has been aligned with the American Society for Quality's Body of Knowledge for a Certified Pharmaceutical Good Manufacturing Practice Professional examination.

**BIOT 408 Six Sigma and Lean Manufacturing** **4.0 Units**

*Transferable to CSU*
*Hours: 64-72 lecture*

Covers the Six Sigma approach to the maintenance and improvement of biomanufacturing processes. It incorporates the DMAIC phases: design, measure, analyze, improve, and control. The course covers the use and implementation of lean manufacturing tools that biomanufacturing companies use to reduce waste. At the end of the course students will be prepared to take the certification test administered by the American Society for Quality for qualification with a white belt in Six Sigma.

**BIOT 409** **4.0 Units**

**Methods in Quality Improvements, Investigations, and Audits**

*Prerequisite**: Admission into the Biomanufacturing Baccalaureate program; Permission of faculty; BIOT 407*
*Transferable to CSU*
*Hours: 48-54 lecture, 48-54 lab*

Examines the investigational methods used by quality assurance departments to analyze process deviations and make the decision about the severity of the deviation. In this course students learn to write industry-standard CAPA (Corrective Action Preventative Action) report to conclude what corrective and preventative actions result from the investigation. The course also covers how a company would perform an internal audit in anticipation of an inspection by the Food and Drug Administration or an external audit for the supplier of a key raw material. This course content has been aligned with the American Society for Quality's Body of Knowledge for a Certified Quality Technician examination.

**BIOT 410** **3.0 Units**

**Emerging Trends in Biomanufacturing Quality**

*Prerequisite**: Admission into the Biomanufacturing Baccalaureate program; Permission of faculty; BIOT 407*
*Transferable to CSU*
*Hours: 48-54 lecture*

Examines the process by which the quality systems of biomanufacturing evolve by examining a selected current trend in the laws and regulations governing pharmaceutical manufacturing. In this course students evaluate the effectiveness of the laws and regulations governing pharmaceutical manufacturing.

# Business

## Associate in Science in Business Administration 2.0 for Transfer (ADT: A.S.-T)

**Program Description**
This curriculum is designed for students planning to transfer to the California State University system. Solano College's business courses provide a foundation of knowledge in key business areas such as business administration, law, accounting, marketing, finance, and economics, in addition to core courses in science and liberal arts.

Students who earn the Associate in Science in Business Administration 2.0 for Transfer will receive guaranteed priority admission to the CSU system, but not to a particular campus or major. Once admitted the student will only be required to complete 60 additional upper-division units to qualify for a BA degree.

**To earn the Associate in Science in Business Administration 2.0 for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or
      the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Science in Business Administration 2.0 for Transfer will be able to:

1. Recognize and describe the importance of marketing, law, economics, accounting, business administration, finance, risk analysis, and personnel management in business and formulate hypotheses based on these concepts.
2. Analyze practical business problems and utilize research and critical thinking to evaluate and recommend alternative solutions.
3. Use appropriate computer software to create and or modify relevant business documents.
4. Apply accounting concepts and principles in making business decisions.

| **REQUIRED COURSES** | **Units** |
|---|---|
| ACCT 001 Principles of Accounting – Financial | 4 |
| ACCT 002 Principles of Accounting – Managerial | 4 |
| BUS 018 Legal Environment of Business | 3 |
| ECON 001 Principles of Economics (Macroeconomics) | 3 |
| ECON 002 Principles of Economics (Microeconomics) | 3 |
| MATH 011 Elementary Statistics | 4 |
| MATH 030 Business Calculus I | 3 |
| BUS 005 Introduction to Business | 3 |
| **Required Major Total Units** | **27** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Business

## Business, General

*Certificate of Achievement and Associate in Science*

**Program Description**

This program is designed for business students planning to transfer to the University of California and/or the California State University systems.

The Certificate of Achievement can be obtained by completing the 23-24-unit major. The Associate in Science can be obtained upon completion of the 23-25-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Business, General Certificate of Achievement/Associate in Science will be able to:

1. Recognize and describe the importance of marketing, law, economics, accounting, business administration, finance, risk analysis, and personnel management in business and formulate hypotheses based on these concepts.

| **REQUIRED COURSES** | **Units** |
|---|---|
| ACCT 001 Principles of Accounting - Financial | 4 |
| ACCT 002 Principles of Accounting - Managerial | 4 |
| BUS 005 Introduction to Business | 3 |
| BUS 018 Legal Environment of Business | 3 |
| CIS 001 Introduction to Computer Science | 3 |
| or | |
| CIS 050 Microcomputer Applications | 3 |
| ECON 001 Principles of Economics (Macroeconomics) | 3 |
| or | |
| ECON 002 Principles of Economics (Microeconomics) | 3 |
| 3-5 units from List A | 3-5 |
| **Required Major Total Units** | **23-24** |

| **List A (Select 3-4 units)** | **Units** |
|---|---|
| BUS 092 Business Communication | 3 |
| CIS 020 Assembly Programming | 3 |
| CIS 022 Introduction to Programming | 3 |
| CIS 023 Data Structures and Algorithms | 4 |
| MATH 011 Elementary Statistics | 4 |
| MATH 020 Analytic Geometry and Calculus I | 4 |
| MATH 021 Analytic Geometry and Calculus II | 4 |
| MATH 030 Analytic Geometry and Calculus | 3 |
| MATH 031 Analytic Geometry and Calculus | 3 |
| OCED 090 Occupational Work Experience | 1-8 |
| OCED 091 General Work Experience | 1-6 |

**Suggested math courses for the major are MATH 011 OR MATH 030.*

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# Business

## Business-Insurance: Property & Casualty

*Certificate of Achievement and Associate in Science*

**Program Description**

This program provides essential background information needed by those wishing to work in an insurance office. Extensive employment opportunities are available in a variety of job areas from sales to accounting to database or project management.

The Certificate of Achievement can be obtained by completing the 31-unit major. The Associate in Science can be obtained upon completion of the 31-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/ No Pass basis.

**Program Outcomes**

Students who complete the Business-Insurance: Property & Casualty Certificate of Achievement/Associate in Science will be able to:

1. Understand the insurance process, the segments of insurance, and the consequences of insurance contracts in mitigating loss.
2. Understand the risk management techniques available to handle exposure to loss and the use of risk modification.
3. Understand the financial and human consequences of loss. Proper and casualty exposures.
4. Apply the insurance principles in potential and real business and personal loss exposures.
5. Understand the exposures to loss faced by an individual and/or corporation.

| **REQUIRED COURSES** | **Units** |
|---|---|
| ACCT 001 Principles of Accounting - Financial | 4 |
| BUS 005 Introduction to Business | 3 |
| BUS 018 Legal Environment of Business | 3 |
| BUS 070 Introduction to Insurance | 1 |
| BUS 071 Principles of Property and Liability Insurance | 3 |
| BUS 072 Personal Insurance | 3 |
| BUS 073 Commercial Insurance | 3 |
| BUS 074 Insurance - Code & Ethics | 1 |
| BUS 092 Business Communication | 3 |
| CIS 050 Microcomputer Applications | 3 |
| CIS 073 Microsoft Excel | 3 |
| OCED 090 Occupational Work Experience | 1 |
| **Required Major Total Units** | **31** |

## Insurance Specialist

*Job-Direct Low Unit Certificate*

| **REQUIRED COURSES** | **Units** |
|---|---|
| BUS 070 Introduction to Insurance | 1 |
| BUS 071 Principles of Property and Liability Insurance | 3 |
| BUS 072 Personal Insurance | 3 |
| BUS 073 Commercial Insurance | 3 |
| BUS 074 Insurance—Code & Ethics | 1 |
| **Total Units** | **11** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Business

## Management

*Certificate of Achievement and Associate in Science*

**Program Description**

This program is designed to emphasize training to improve thought processes and to provide familiarity with the analytical tools of management, sound decision-making, and how to get things done through and with people. Also, this option is designed for initial employment upon graduation and for job advancement opportunities.

The Certificate of Achievement can be obtained by completing the 21-unit major. The Associate in Science can be obtained by completing the 21-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Management Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate oral and written skills unique in the business community.
2. Apply leadership, ethical standards, and team building skills necessary for managerial positions in the 21st century.
3. Conduct a personal SWOT analysis for a future small business venture.
4. Design a comprehensive business plan for a future small business venture.
5. Demonstrate the ability to use technology in analyzing and solving business problems.
6. Use basic computation skills to analyze and solve business problems requiring the use of mathematics.

**REQUIRED COURSES** .....**Units**
*(listed in recommended sequence)*
BUS 005 Introduction to Business ..... 3
MGMT 050 Principles of Management ..... 3
MGMT 055 Management/Leadership Skills ..... 3

MGMT 191 Human Relations ..... 3
or
MGMT 193 Human Resource Management ..... 3

BUS 092 Business Communication ..... 3
CIS 050 Microcomputer Applications ..... 3
BUS 181 Business Mathematics ..... 3
**Required Major Total Units .....21**

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Business

## Management:
## Retail Management

*Certificate of Achievement and Associate in Science*

**Program Description**

Designed to serve the needs of the employees and employers within the retail industry. The program provides the knowledge and skills needed to prepare students for both entry level jobs and upward mobility opportunities in this dynamic and ever changing segment of our economy. Program emphasis is placed on professional and career development.

The Certificate of Achievement can be obtained by completing the 25-unit major. The Associate in Science can be obtained by completing the 25-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Retail Management Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate oral and written skills unique in the business community.
2. Apply leadership, ethical standards, and team building skills necessary for managerial positions in the 21st century.
3. Conduct a personal SWOT analysis for a future small business venture.
4. Design a comprehensive business plan for a future small business venture.
5. Demonstrate the ability to use technology in analyzing and solving business problems.
6. Use basic computation skills to analyze and solve business problems requiring the use of mathematics.

**REQUIRED COURSES** ..... **Units**
*(listed in recommended sequence)*
BUS 092 Business Communication ..... 3
CIS 050 Microcomputer Applications ..... 3
ACCT 001 Principles of Accounting - Financial ..... 4
MKT 171 Introduction to Marketing ..... 3
MKT 174 Retail Merchandising..... 3
MGMT 191 Human Relations ..... 3
MGMT 193 Human Resource Management ..... 3

MGMT 050 Principles of Management ..... 3
or
MGMT 055 Management/Leadership Skills ..... 3
**Required Major Total Units .....25**

*NOTE: This program is approved by the Western Association of food chains for awarding of the industry WAFC Certificate.*

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Business

## Management:
## Small Business Management

*Certificate of Achievement and Associate in Science*

**Program Description**

This program is designed for those planning to start their own business, buy an existing business, buy a franchise, or who already own their own business. This option emphasizes learning the concepts and practical skills necessary to be a successful, professional entrepreneur. Specifically designed for working adults, the courses emphasize a systematic approach to business which focuses on the integration of theoretical and practical skills.

The Certificate of Achievement can be obtained by completing the 28-unit major. The Associate in Science can be obtained by completing the 28-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Small Business Management Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate oral and written skills unique in the business community.
2. Apply leadership, ethical standards, and team building skills necessary for managerial positions in the 21st century.
3. Conduct a personal SWOT analysis for a future small business venture.
4. Design a comprehensive business plan for a future small business venture.
5. Demonstrate the ability to use technology in analyzing and solving business problems.
6. Use basic computation skills to analyze and solve business problems requiring the use of mathematics.

| **REQUIRED COURSES** | **Units** |
|---|---|
| *(listed in recommended sequence)* | |
| MGMT 055 Management/Leadership Skills | 3 |
| MKT 174 Retail Merchandising | 3 |
| ACCT 050 Computer Accounting | 3 |
| BUS 005 Introduction to Business | 3 |
| BUS 018 Legal Environment of Business | 3 |
| BUS 181 Business Mathematics | 3 |
| BUS 182 Small Business Mathematics | 1 |
| BUS 092 Business Communication | 3 |
| 6 units from List A | 6 |
| **Required Major Total Units** | **28** |

| **List A: (select 6 units)** | **Units** |
|---|---|
| ACCT 001 Principles of Accounting - Financial | 4 |
| ACCT 002 Principles of Accounting - Managerial | 4 |
| BUS 060 Introduction to International Business | 3 |
| ECON 001 Principles of Economics (Macroeconomics) | 3 |
| ECON 002 Principles of Economics (Microeconomics) | 3 |
| MGMT 055 Management/Leadership Skills | 3 |
| MGMT 191 Human Relations | 3 |
| MKT 173 Principles of Selling | 3 |
| MKT 174 Retail Merchandising | 3 |
| OCED 090 Occupational Work Experience | 2-3 |
| OCED 091 General Work Experience | 2-3 |
| OT 054A Beginning Keyboarding A | 1.5 |
| OT 054B Beginning Keyboarding B | 1.5 |
| OT 055A Intermediate Keyboarding/ Word Processing A | 1.5 |
| OT 055B Intermediate Keyboarding/ Word Processing B | 1.5 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Business

## Marketing

*Certificate of Achievement and Associate in Science*

**Program Description**

Marketing involves a variety of activities including selection of target customer, product development, promotion, pricing and distribution. It applies equally to services, ideas, non-profit organizations, and the individual.

The Certificate of Achievement can be obtained by completing the 30-unit major. The Associate in Science can be obtained by completing the 30-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Marketing Certificate of Achievement/Associate in Science will be able to:

1. Apply marketing research principles to a company's product or service.
2. Apply advertising principles to promote a firm's image and product/service offering.
3. Develop a marketing plan for a business using the fundamental elements of the marketing mix.

**REQUIRED COURSES** .....**Units**

BUS 005 Introduction to Business ..... 3
BUS 018 Legal Environment of Business ..... 3
BUS 181 Business Mathematics ..... 3

CIS 001 Introduction to Computer Science ..... 3
or
CIS 050 Microcomputer Applications ..... 3

ECON 002 Principles of Economics (Microeconomics) .. 3

MGMT 050 Principles of Management ..... 3
or
MGMT 191 Human Relations ..... 3

MKT 171 Introduction to Marketing ..... 3
MKT 172 Market Management and Planning ..... 3
MKT 173 Principles of Selling ..... 3
MKT 174 Retail Merchandising ..... 3

**Required Major Total Units .....30**

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Business

## Office Technology: Administrative Assistant

*Certificate of Achievement and Associate in Science*

**Program Description**

This program is designed to develop technical and communication skills required for management support. Computer literacy, keyboarding skills, document formatting, proofreading and grammatical skills, presentation skills, spreadsheet, and organizational skills are emphasized.

The Certificate of Achievement can be obtained by completing the 30.5-unit major. The Associate in Science can be obtained by completing the 30.5-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Administrative Assistant Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate mastery of the alpha and numeric typewriting keyboard.
2. Demonstrate mastery in the keyboarding of correspondence, manuscripts, and compositions under timed conditions with established accuracy and formatting standards using proper techniques.
3. Develop a high degree of competency and a broad knowledge of skills as they relate to general office procedures.

**REQUIRED COURSES:** .....**Units**
*(listed in recommended sequence)*
CIS 066 Microsoft Word ..... 3

CIS 001 Introduction to Computer Science ..... 3
or
CIS 050 Microcomputer Applications ..... 3

BUS 092 Business Communication ..... 3
CIS 073 Microsoft Excel ..... 3
OT 151 Office Systems & Procedures ..... 3
OCED 090 Occupational Work Experience ..... 1
CIS 090 Introduction to PowerPoint ..... 1.5
CIS 091 Microsoft Outlook ..... 1.5
OT 054A Beginning Keyboarding A ..... 1.5
OT 054B Beginning Keyboarding B ..... 1.5
OT 055A Intermediate Keyboarding/
Word Processing A ..... 1.5
OT 055B Intermediate Keyboarding/
Word Processing B ..... 1.5
OT 162 Ten-Key ..... 1
BUS 097 Work Readiness ..... 1.5
BUS 181 Business Mathematics ..... 1
OT 056 Business Grammar and Proofreading ..... 2
**Required Major Total Units: .....30.5**

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# Business

## Office Technology:
## Medical Administrative Assistant

*Certificate of Achievement*

**Program Description**

The goal of this program is to prepare students to enter the health care industry at an entry-level position in two semesters.

The Certificate of Achievement can be obtained upon completion of the 20-unit major. All courses must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Medical Administrative Assistant Certificate of Achievement will be able to:

1. Demonstrate alpha and numeric keyboarding skills at 40 wpm with established accuracy.
2. Demonstrate computer literacy and word processing skills related to formatting business documents.
3. Use medical terminology for human diseases.
4. Demonstrate the differences in medical insurance and explain the duties of a medical office assistant, HIPPA.
5. Demonstrate ability to type medical documents and facility at using medical software such as Medisoft.
6. Employ the necessary soft skills to apply and find employment and keep it.

| **REQUIRED COURSES:** | **Units** |
|---|---|
| **Semester 1:** | **Units** |
| NURS 111 Medical Terminology | 3 |
| OT 060 Administrative Medical Assistant | 3 |
| CIS 066 Microsoft Word | 3 |
| OT 054A Beginning Keyboarding A | 1.5 |
| OT 054B Beginning Keyboarding B | 1.5 |
| CIS 091 Microsoft Outlook | 1.5 |
| **Semester 2:** | **Units** |
| BUS 097 Work Readiness | 1.5 |
| OT 056 Business Grammar and Proofreading | 2 |
| OT 061 Health Insurance | 3 |
| **Required Major Total Units** | **20** |

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# BSOT - Office Technology/Business Information Worker

**BSOT 105 Computer Literacy** **1.0 Unit**
*C-ID: BSOT 105X*
*Course Advisory: Keyboarding speed of 30 wpm*
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture*
An introduction to computer terminology and fundamental hardware and software applications. Topics include industry standard Microsoft Office (word processing, spreadsheet, and presentation) application programs, file management, email, instant messaging, and internet browsing and searching.

**BSOT 106 MS Outlook** **1.0 Unit**
*C-ID: BSOT 106X*
*Course Advisory: Keyboarding speed of 30 wpm and BSOT 105, CIS 001, or CIS 050*
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture*
Explores personal management software and use of Microsoft Outlook functions. Topics include management of e-mail, organization of contacts, creation and scheduling of events using the calendar, and creating and managing tasks for personal and business use. Customization of Outlook features is also covered.

**BSOT 110 Keyboarding I** **1.0 Unit**
*C-ID: BSOT 110X*
*Course Advisory: BSOT 105*
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture*
Covers effective keyboarding skills with an emphasis on building correct touch-typing techniques for alphanumeric, symbol, and punctuation keys. Provides a foundation for developing keyboarding speed and accuracy. Successful completion of this class results in a minimum keyboarding speed of 15 net words per minute on a two-minute timed writing.

**BSOT 111 MS Word I** **1.0 Unit**
*C-ID: BSOT 111X*
*Course Advisory: BSOT 105 and BSOT 110; and CIS 001 or CIS 050*
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture*
Provides an introduction to word processing with Microsoft Word including basic document creation, formatting, and editing. Students create, edit, and format business letters, multiple-page reports, newsletters, and cover letters. This course begins preparation for the Microsoft Office User certification exam for Word.

**BSOT 112 MS Excel I** **1.0 Unit**
*C-ID: BSOT 112X*
*Course Advisory: keyboarding speed of 30 wpm and BSOT 105, CIS 001, or CIS 050*
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture*
Provides a basic understanding of Microsoft Excel beginning with spreadsheet design, creation, revision, formatting, and printing a workbook. Basic formulas, functions, and syntax are introduced along with an introduction to using charts and graphs. Problem solving for Excel solutions is also emphasized. This course begins preparation for the Microsoft Office Certification exam for Excel.

**BSOT 113 MS Access I** **1.0 Unit**
*C-ID: BSOT 113X*
*Course Advisory: BSOT 105 and BSOT 110 with a minimum grade of C and CIS 001 or CIS 050*
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture*
Provides a basic understanding of fundamental relational database design and management. Introduces building and editing basic tables, forms, queries, and reports. This course begins preparation for the Microsoft Office Specialist exam for MS Access.

**BSOT 114 MS PowerPoint I** **1.0 Unit**
*C-ID: BSOT 114X*
*Course Advisory: BSOT 105 and BSOT 110; and CIS 001 or CIS 050*
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture*
Introduces the process of planning, creating, editing, viewing, and printing PowerPoint presentations. Topics include adding text, graphics, and multimedia elements and creating master pages and templates. Integration with other Microsoft programs is also covered.

**BSOT 120 Keyboarding II** **1.0 Unit**
*C-ID: BSOT 120X*
*Course Advisory: BSOT 105 and BSOT 110*
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture*
Covers intermediate keyboarding with correct touch-typing techniques, including alphanumeric, and symbol keyboarding and 10-Key numeric keypad. Skill-building includes introductory formatting of documents using Microsoft Word. Successful completion of this class results in a minimum keyboarding speed of 30 net words per minute on a three-minute timed writing.

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# BSOT - Office Technology/Business Information Worker

**BSOT 121 MS Word II** **1.0 Unit**
*C-ID: BSOT 121X*
*Course Advisory: Keyboarding speed of 30 wpm and BSOT 111*
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture*
Covers an intermediate level of word processing with Microsoft Word, including complex document creation, mail merge, columns, formatting, plus integration with other applications, and collaborating on documents using Microsoft Word. Themes, templates, and styles are also covered. This course continues preparation for the Microsoft Office User Exam for Microsoft Word.

**BSOT 122 MS Excel II** **1.0 Unit**
*C-ID: BSOT 105X*
*Course Advisory: Keyboarding speed of 30 wpm and BSOT 112*
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture*
Provides an intermediate understanding of Microsoft Excel. Analyzing data, working with multiple worksheets and functions, pivot tables, resolving conflicts, tracking changes, data validation, chart formatting, templates, and macros are covered. Problem solving for Excel solutions is also emphasized. This course continues preparation for the Microsoft Office Certification exam for Excel.

**BSOT 123 MS Access II** **1.0 Unit**
*C-ID: BSOT 123X*
*Course Advisory: Keyboarding speed of 30 wpm and BSOT 113*
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture*
Provides an intermediate understanding of database design and management. Advanced Queries, table design, custom forms and reports as well as integration of Access with the web and other programs are covered. This course continues preparation for the Microsoft Office Specialist exam for MS Access.

**BSOT 124 MS PowerPoint II** **1.0 Unit**
*C-ID: BSOT 124X*
*Prerequisite**: BSOT 114*
*Non-transferable to UC or CSU*
*Course Advisory: Keyboarding speed of 30 wpm*
*Hours: 16-18 lecture*
Covers the use of PowerPoint as a tool for designing, producing, and controlling visual elements to build and deliver effective presentations. Topics include creating templates, customizing, protecting, and publishing presentations as well as inserting audio, video, and animations and integrating with other programs.

**BSOT 125 Adobe Acrobat** **1.0 Unit**
*C-ID: BSOT 125X*
*Course Advisory: Keyboarding speed of 30 wpm; BSOT 105 and BSOT 110 or CIS 001 or CIS 050 with a minimum grade of C*
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture*
An introduction to the basic components of Adobe Acrobat software. Topics include creating portable document files (PDF), working with PDF files, annotation and editing of files plus interactive forms. Distribution and management of PDFs is also covered.

**BSOT 130 Keyboarding III** **1.0 Unit**
*C-ID: BSOT 130X*
*Prerequisite**: Keyboarding speed of 30 wpm with 4 errors or less on a 3 minute timed writing*
*Non-transferable to UC or CSU*
*Course Advisory: BSOT 120 with a minimum grade of C*
*Hours: 16-18 lecture*
Provides advanced keyboarding techniques that build on intermediate touch-typing techniques including alphanumeric, and symbol keyboarding as well as 10-Key numeric keypad. Skill-building includes document production with advanced formatting using MS Word, and individualized remedial drills. Successful completion of this class results in a minimum net keyboarding speed of 45 words per minute on a five-minute timed writing.

**BSOT 131 MS Word III** **1.0 Unit**
*C-ID: BSOT 131X*
*Prerequisite**: BSOT 121;*
*Non-transferable to UC or CSU*
*Course Advisory: Keyboarding speed of 30 wpm*
*Hours: 16-18 lecture*
An advanced level of word processing with Microsoft Word, including creation of templates, macros, advanced table formatting, and use of long documents and subdocuments. Customizing and automating work and online forms are also covered. This course completes preparation for the Microsoft Office User exam for Word.

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# BSOT - Office Technology/Business Information Worker

**BSOT 132 MS Excel II** **1.0 Unit**

*C-ID: BSOT 132X*
*Prerequisite**: BSOT 122*
*Non-transferable to UC or CSU*
*Course Advisory: Keyboarding speed of 30 wpm*
*Hours: 16-18 lecture*

Provides an advanced understanding of Microsoft Excel. Financial and what-if analysis, data tables, scenario management, importing and exporting data, enhancing with Visual Basic, sub-routines, modifying default settings, and problem-solving tools are covered. Problem solving for Excel solutions is also emphasized. This course completes preparation for the Microsoft Office Certification exam for Excel.

**BSOT 133 MS Access II** **1.0 Unit**

*C-ID: BSOT 133X*
*Prerequisite**: BSOT 123*
*Non-transferable to UC or CSU*
*Course Advisory: Keyboarding speed of 30 wpm*
*Hours: 16-18 lecture*

Covers advanced database design and management. Action Queries, table relationships, and automating tasks with macros are covered. Visual Basic for Applications is introduced to enhance database construction and functionality. Managing replication and synchronization is included.

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# BUS - Business

**BUS 005 Introduction to Business 3.0 Units**
*C-ID: BUS 110*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A study and analysis of the principles of business by providing a multidisciplinary examination of how culture, society, economic systems, legal, international, political, financial institutions and human behavior interact. The course introduces students to contemporary business principles, practices, and terminology. Students will gain an understanding and appreciation of the private enterprise system and how the functional areas of business work, interrelate and affect a business organization's policy and practices within the U.S. and global society. Students also gain the knowledge to demonstrate how these policies and practices impact the primary areas of business such as: leadership, human resource management, organized labor practices, marketing, organizational communication, technology, entrepreneurship, legal, accounting, financial practices, the stock and securities market and how they affect a business' ability to achieve its organizational goals. The course explores business career opportunities, provides the prerequisite knowledge needed for success in other business courses, and prepares students for transfer to upper-division business degree programs.

**BUS 018 Legal Environment of Business 3.0 Units**
*C-ID: BUS 120*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An introduction to the study of law, with specific emphasis on the legal environment of business. Includes the legal process, legal institutions, ethics, jurisdiction, U.S. Constitution, contracts, agency, the Uniform Commercial Code (UCC), torts, employment law, property, bankruptcy law, forms of business organization, corporations, consumer protection, government regulation and Alternative Dispute Resolution (ADR), along with ethical concerns and current public policy issues. Written examinations required.

**BUS 020 3.0 Units**
**Personal Finance**
*General Education: SCC: Area B*
*Transferable to CSU*
*Hours: 48-54 lecture*
This course assists students in gaining the knowledge, tools, attitude, and skills needed to make informed lifelong financial decisions that empower their lives. The course provides students with practical, hands-on experience in personal financial management and investment. Students explore issues related to planning and managing a personal financial plan. Topics include goal-setting, budgeting, money management, taxes, savings, consumer credit, automobiles, housing, insurance, investment vehicles, retirement and estate planning, and the financial impact of marriage and divorce. companies.

**BUS 060 3.0 Units**
**Introduction to International Business**
*Transferable to CSU*
*Hours: 48-54 lecture*
An overview designed to provide a global perspective in a continuously emerging international marketplace, including topics such as foreign investing, impact of financial markets, international marketing, cultural understanding, and operation of multinational and small companies.

**BUS 070 Introduction to Insurance 1.0 Unit**
*Transferable to CSU*
*Hours: 16-18 lecture*
Provides students with the background needed prior to taking the other insurance courses. Included are topics such as property/casualty insurance, distribution of insurance products and services to the consumer, how insurance company departments function, civil laws or tort and contract, basic commercial and personal Insurance Services Office (ISO) contracts, and the risk management process.

**BUS 071 3.0 Units**
**Principles of Property and Liability Insurance**
*Transferable to CSU*
*Hours: 48-54 lecture*
Prepares students for employment in the insurance industry, which consists of many different types of employment opportunities, from selling insurance to working in a variety of positions in an insurance company.

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# BUS - Business

**BUS 072 Personal Insurance 3.0 Units**
*Transferable to CSU*
*Hours: 48-54 lecture*
A basic introduction to personal insurance. Includes information about automobile insurance; homeowners' insurance; other residential insurance, such as fire and earthquake insurance; marine insurance; and other personal property.

**BUS 073 Commercial Insurance 3.0 Units**
*Transferable to CSU*
*Hours: 48-54 lecture*
Prepares students for employment in the insurance industry. Emphasis for this course is on commercial insurance. The insurance industry offers many different types of employment opportunities, from selling insurance to working in an insurance office.

**BUS 074 Insurance - Code & Ethics 1.0 Unit**
*Transferable to CSU*
*Hours: 16-18 lecture*
Enables students to understand and apply proper ethical business behavior and obligations, especially as they relate to those working in the field of insurance.

**BUS 092 Business Communication 3.0 Units**
*General Education: SCC: Area B*
*Transferable to CSU*
*Hours: 48-54 lecture*
A study of communication theory in the planning and preparation of various types of letters, memos, emails, reports, resumes, and oral presentations along with analysis of group dynamics, symbolic communication, interview techniques and listening skills. This course applies the principles of ethical and effective communication to written and oral reports for a variety of business situations. The course emphasizes planning, organizing, composing, and revising business documents using word processing software for written documents and presentation-graphics software to create and deliver professional-level oral reports. This course is designed for students who already have college-level writing skills.

**BUS 097 Skills for Workplace Success 1.5 Units**
*Transferable to CSU*
*Hours: 24-27 lecture*
Covers the process of assessing the job market and completing a resume and application. Topics include how to be successful on the job and gain satisfaction and rewards from work. The course emphasizes soft skills needed in the workplace, including social and communication skills and personal characteristics and desirable habits of an employee. Additional emphasis on conforming to the expectations of the employer.

**BUS 099 Business Honors 1.0 to 3.0 Units**
*Prerequisite**: Completion of 24.0 units of college credit with a minimum GPA of 3.3; a minimum of 5.0 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability*
*Transferable to CSU*
*Hours: 48-162 lab by arrangement*
A comprehensive study and analysis of a topic of student scholarship which is centered on important topics or issues within the business field. Students may take this course up to the maximum number of units over multiple semesters.

**BUS 148A 3.0 Units**
**Small Business Project-Based Path for Entrepreneurs**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
Emphasizes activities and techniques through project management that develops competencies needed to become a successful leader. Students receive instruction and project-based activities in the areas of entrepreneurship, project management, personal and workplace skill, oral and written techniques, and networking.

**BUS 181 Business Mathematics 1.0 to 3.0 Units**
*Non-transferable to UC or CSU*
*Hours: 16-54 lecture*
An application of essential mathematical skills necessary for success in business. Includes a review of fractions, decimals, percents, ratios, the percentage formula, and general business applications; covers advanced business applications such as interest, discount, markup, payroll, pricing policies, cash and trade discounts, and financial statements. *This is a self-paced, programmed learning class. Students may take this course up to the maximum number of units over multiple semesters*.
*This is an Open Entry/Open Exit, Variable unit course; Online course is not Open Entry/Open Exit.*

# BUS - Business

**BUS 182 Small Business Mathematics 1.0 Unit**
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture*
An application of essential mathematical skills necessary for persons operating a successful business. It includes asset and inventory management; ratio analysis, depreciation, taxation applied to sales, excise, and real property; investments and insurance, and basic statistics. *This is a self-paced, programmed learning class.*
*This is an Open Entry/Open Exit course; Online course is not Open Entry/Open Exit.*

**BUS 208 0.5 Unit**
**Employee Relations and Personnel Policies**
*Non-transferable to UC or CSU*
*Hours: 8-9 lecture*
Good employees are made through effective training, development, and relations. This course explores techniques used in training and developing good employees. The elements that comprise a sound employee relations program are presented.
*This is a Pass/No Pass only course.*

**BUS 400 Project Management 3.0 Units**
*Prerequisite**: Admission into the Biomanufacturing Baccalaureate degree program*
*Transferable to CSU*
*Hours: 48-54 lecture*
Learn the core characteristics of project management including project selection, initiation, planning, execution, monitoring and control, and closing. Students learn how the management of the project's scope, time, cost, quality, human resources, communication, procurement, stakeholders, and risk lead to the ability to deliver the project on-time and on-budget, while meeting performance specifications. *This course is designed to fulfill the classroom component of a Project Management Professional credential.*

# MGMT - Management

**MGMT 050 Principles of Management 3.0 Units**
*Transferable to CSU*
*Hours: 48-54 lecture*
An introduction and comprehensive survey of the theory and practices relevant to the management principles of: planning, organizing, staffing, directing and controlling. The course explores the nature and role of management/ supervision in a contemporary environment focusing on the strategic planning, decision-making and problem-solving processes that affect organizational effectiveness and efficiency. Includes quantitative and qualitative methodology used in systems and contingency approach to management.

**MGMT 055 Management/Leadership Skills 3.0 Units**
*Transferable to CSU*
*Hours: 48-54 lecture*
A comprehensive development, analysis, and application of fundamental skills needed for the successful practice of supervision/leadership. This course addresses the quality principles of leadership applied to work processes, decision making and problem solving, communication, stress and time management, and delegating/facilitating in a team environment. The focus of the course is on job-relevant skills. Class exercises are employed to teach the various skills.

**MGMT 191 Human Relations 3.0 Units**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
A comprehensive study and analysis of the concepts and skills associated with human behavior and relationships. The course stresses effective supervision and leadership practices as applied to human interaction

**MGMT 193 Human Resource Management 3.0 Units**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
Human resource administration of public and private organizations including personnel and administrative practices. The student will examine the evolution of unions including the various labor relations acts, collective bargaining processes, grievance procedures, and arbitration. Supervisor's and the steward's roles are emphasized for effectively maintaining negotiated contracts. The course focuses on actual personnel problems, principles and methods involved in recruitment, selecting and placement of employees with regard to affirmative action programs, training, experience and aptitude

# MKT - Marketing

**MKT 171 Introduction to Marketing 3.0 Units**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
A comprehensive study and analysis of initiating the marketing process (for both profit and non-profit organizations) with special emphasis on understanding the consumer and detailed studies of demographics and target marketing. Includes the role of marketing research, the process of defining a marketing problem and then systematically collecting and analyzing information to recommend actions to improve an organization's marketing activities.

**MKT 172 3.0 Units**
**Marketing Management and Planning**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture.*
Marketing methodology related to all channels of distribution including pricing strategies, new product/ services, and the development and evaluation of breakthrough opportunities. Practical applications in dealing with government regulations and the career field of sales, promotion/advertising.

**MKT 173 Principles of Selling 3.0 Units**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
The application of traditional selling skills including the approach, demonstrating the product, answering the customer's objections, and closing the sale to the customer's satisfaction.

**MKT 174 Retail Merchandising 3.0 Units**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
A comprehensive study of the principles and practices of merchandising management of product/services, with emphasis on store location analysis, layout, customer services, buying, sales promotion, consumer credit, and understanding consumer needs and wants. Course includes practical applications related to start-up of a new business and legal constraints of organizing, selling, advertising, consumer relations and personnel practices.

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# OT - Office Technology

**OT 054A Beginning Keyboarding A 1.5 Units**
*Transferable to CSU*
*Hours: 24-27 lecture*
An individualized beginning keyboarding course taught on the computer. Touch typing is developed for the alphabet, punctuation, symbols, and top row number keys. Speed will be built to a minimum of 20 words per minute. Students may test out of the course if they can meet a minimum of 20 wpm with proper technique.

**OT 054B Beginning Keyboarding B 1.5 Units**
*Prerequisite**: OT 054A or permission of faculty*
*Transferable to CSU*
*Hours: 24-27 lecture*
An individualized beginning keyboarding course taught on the computer. Touch typing is developed for the alphabet, punctuation, symbols, and top row number keys. Speed will be built to a minimum of 30 words per minute. Materials studied include production of documents such as correspondence, memos, reports and tables in standard formats.

**OT 055A 1.5 Units**
**Intermediate Keyboarding/Word Processing A**
*Prerequisite**: OT 054B or permission of faculty*
*Course Advisory: CIS 066 with a minimum grade of C*
*Transferable to CSU*
*Hours: 24-27 lecture*
A keyboarding course using a computer with units of study including skill building, correspondence, reports, compositions, tables, special projects, and business forms. Speed will be built to a minimum of 35 words per minute.

**OT 055B 1.5 Units**
**Intermediate Keyboarding/Word Processing B**
*Prerequisite**: OT 055A or permmission of faculty*
*Transferable to CSU*
*Hours: 24-27 lecture*
An individualized keyboarding course using a computer with units of study including skill building, correspondence, reports, compositions, tables, special projects, and business forms. Speed will be built to a minimum of 40 words per minute.

**OT 056 2.0 Units**
**Business Grammar and Proofreading**
*Transferable to CSU*
*Hours: 32-36 lecture*
Prepares students for professional work in an office with a heavy emphasis on business grammar and proofreading.

**OT 060 Administrative Medical Assistant 3.0 Units**
*Transferable to CSU*
*Hours: 48-54 lecture*
Introduction to the responsibilities of an Administrative Medical Office Assistant including: HIPPA (legal and ethical considerations), interpersonal-skills, scheduling appointments in person and by telephone, records and file management, written communications, and financial duties.

**OT 061 Health Insurance 3.0 Units**
*Transferable to CSU*
*Hours: 48-54 lecture*
Introduction to health insurance claims processing and reimbursement issues. Discusses the major health care insurance programs and the impact of federal regulations. The course introduces the use of diagnosis and procedures coding. Teaches the student how to accurately complete a claim.

**OT 100 1.0 Unit**
**Skill Building on the Computer Keyboard**
*Course Advisory: Ability to touch type at 20 wpm*
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture*
Individualized skill building keyboarding course taught on the microcomputer. Speed and accuracy skills are enhanced on the alphabet, punctuation, and numbers. The unit of study includes identifying the specific needs of the individual and then assigning diagnostic drills, skill-development practice and pre-and post-testing. The skill building goal will be to increase typing speed or straight copy 3- to 5-minute timed writings between 5 to 10 words per minute above the starting rate with an accuracy level of not more than one error per minute.

**OT 101 3.0 Units**
**Study of Human Diseases for Medical Assistants**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
Study of the pathological process, imparting basic knowledge to paramedical personnel. The student will study the basic concepts, terminology, etiology and characteristics of pathological processes. Diseases are classified according to both causative agents and the body system to which they relate.

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# OT - Office Technology

**OT 151 Office Systems & Procedures 3.0 Units**
*Corequisite: One unit of OCED 090*
*Prerequisite**: Typing rate of 45 words per minute and microcomputer word processing skills*
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
An advanced level course designed to complete the training of Office Technology program students in office systems and procedures. Course should be taken during the student's final semester of the program or as a refresher for experienced business students. One unit of work experience will be required in the specialty area of the student's major.

**OT 158 Medical Office Computer Applications 3.0 Units**
*Corequisite: NURS 111*
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
Navigates through the operations of a web-based Electronic Health Record/Total Practice Management program.

**OT 162 Ten-Key 1.0 Unit**
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture*
Individualized course offering the fundamentals of operating the ten-key microcomputer number keypad. The touch system of operation and continuous speed and accuracy development are emphasized throughout the course.

**OT 163 Introduction to Diagnostic Coding 3.0 Units**
*Prerequisite**: OT 101 and NURS 111*
*Course Advisory: BIO 016 and BIO 016L*
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
Introduction to the basic principles of coding disease and procedures using the INTERNATIONAL CLASSIFICATION OF DISEASE, Clinical Modification (ICD-CM) and the ICD-CM coding handbook for the entry-level coders. Current ICD-CM books only will be utilized in this course. The accuracy of coding using the ICD-CM manual is the focus of this course. The impact of coding on reimbursement will be discussed.

**OT 164 Intermediate ICD PCS Coding 3.0 Units**
*Prerequisite**: OT 101 and NURS 111.*
*Hours: 48-54 lecture*
Explores the guidelines, conventions, and process for selecting procedural codes for inpatient claims. The course will focus on Prodcedural Coding System (PCS) coding in compliance with The Centers for Medicare and Medicaid Services (CMS) and the National Center for Health Statistics (NCHS) guidelines for coding and reporting using the International Classification of Diseases, Procedure Coding System (ICD-PCS). ICD-PCS is a procedure classification published by the United States for classifying procedures performed in hospital inpatient health care settings.

**OT 166 Current Procedural Coding 3.0 Units**
*Prerequisite**: NURS 111 and OT 101*
*Course Advisory: OT 063 and 064*
*Hours: 48-54 lecture*
Covers the principles and mechanics of coding professional services rendered using the CURRENT PROCEDURAL TERMINOLOGY (CPT-IV) coding system.

## Chemistry

*Associate in Science*

**Program Description**

This program is designed to foster an understanding of the fundamental principles of chemistry in a variety of applications. Students will learn how chemical knowledge is derived, theorized, and applied in solving problems in everyday life.

The Associate in Science can be obtained by completing the 26-30-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Chemistry Associate in Science will be able to:

1. Demonstrate skills for various lab techniques.
2. Formulate and write names applying International Union of Pure and Applied Chemistry rules for chemical compounds.
3. Interpret and analyze chemical data.
4. Identify and write different types of chemical reactions.

| **REQUIRED COURSES** | **Units** |
|---|---|
| CHEM 001 General Chemistry I | 5 |
| CHEM 002 General Chemistry II | 5 |
| CHEM 003 Organic Chemistry I | 5 |
| CHEM 004 Organic Chemistry II | 5 |
| BIO (any course except 048 or 098) | 3-5 |
| One course from List A | 3-5 |
| **Required Major Total Units** | **26–30** |

| **List A: (select one course)** | **Units** |
|---|---|
| PHYS 002 General (Non-calculus) | 5 |
| PHYS 006 for Science and Engineering | 5 |
| PHYS 010 Descriptive | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# CHEM - Chemistry

**CHEM 001 General Chemistry I 5.0 Units**
*C-ID: CHEM 110*
*C-ID: CHEM 001 + CHEM 002 = CHEM 120S*
*Prerequisite**: CHEM 160 (recommended for students with no previous chemistry) or CHEM 010 (recommended for students who have had an introductory level chemistry course) or a score of 3, 4, or 5 on the Chemistry AP exam; and MATH 104 or eligibility for MATH 002 based on a Multiple Measures Evaluation*
*General Education: SCC: Area C; IGETC: Area 5A, 5C; CSU: Area B1, B3*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 96-108 lab*
Presents principles of general chemistry for students in science, engineering, medical and related professions. Topics include atomic structure and theory, the periodic table, bonding, gas laws, stoichiometry, solutions, ionization, thermochemistry and equilibrium. This course requires significant math skills and previous knowledge of fundamental chemistry concepts. *Field trips and online work may be required.*

**CHEM 002 General Chemistry II 5.0 Units**
*C-ID: CHEM 001 + CHEM 002 = CHEM 120S*
*Prerequisite**: CHEM 001*
*General Education: IGETC: Area 5A, 5C; CSU: Area B1, B3*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 96-108 lab*
A continuation of chemical principles and theory covered in CHEM 001 with emphasis on electrochemistry, chemical equilibrium, acid-base equilibrium, thermodynamics, descriptive chemistry and quantitative and qualitative analysis. This course requires significant math skills and previous knowledge of fundamental chemistry concepts. *Field trips and online work may be required.*

**CHEM 003 Organic Chemistry I 5.0 Units**
*C-ID: CHEM 150*
*C-ID: CHEM 003 + CHEM 004 = CHEM 160S*
*Prerequisite**: CHEM 002*
*General Education: IGETC: Area 5A, 5C; CSU: Area B1, B3*
*Transferable to UC/CSU*
*Hours: 64-72 lecture, 64-72 lab*
First half of a two semester course sequence (CHEM 003 and CHEM 004) that begins a survey of organic chemistry for students in chemical, biological, health science, and related professions. Topics include analysis of structure and nomenclature, bonding, isomerism, and basic reaction mechanisms of organic chemicals. Functional groups considered include alkanes, alkenes, alkynes, alcohols, and alkyl halides and ethers. Basic organic laboratory procedures are introduced along with spectral analysis, simple syntheses, and reactions described in lecture. *Field trip may be required. Online homework and quizzes may be required.*

**CHEM 004 Organic Chemistry II 5.0 Units**
*C-ID: CHEM 003 + CHEM 004 = CHEM 160S*
*Prerequisite**: CHEM 003*
*General Education: IGETC: Area 5A, 5C; CSU: Area B1, B3*
*Transferable to UC/CSU*
*Hours: 64-72 lecture, 64-72 lab*
Second half of a two semester course sequence (CHEM 003 and CHEM 004) that begins a survey of organic chemistry for students in chemical, biological, health science, and related professions. Topics include analysis of structure, nomenclature, and reaction mechanisms of conjugated systems, aromatics, organometallics, aldehydes, ketones, amines, carboxylic acids and acid derivatives, and various functional groups, carbohydrates, lipids, amino acids, proteins, and nucleic acids. The laboratory will emphasize more advanced work and the application of instrumentation in organic chemistry. *Field trip may be required*. *Online homework and quizzes may be required.*

**CHEM 010 Intermediate Chemistry 4.0 Units**
*C-ID: CHEM 101*
*Prerequisite**: Recommendation of MATH 104 based on a Multiple Measures Evaulation*
*Course Advisory: CHEM 160 strongly recommended for students who have never taken Chemistry*
*General Education: SCC: Area C; IGETC: Area 5A, 5C; CSU: Area B1, B3*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 48-54 lab*
A general chemistry course often required for nursing students and for students majoring in physical therapy, occupational therapy, industrial technology and home economics, it emphasizes the chemistry of inorganic compounds and covers selected topics such as atomic theory, bonding, equations, gas laws, solutions, acid-base theory, and oxidation-reduction. *Field trip may be required*. *Online homework may be required. NOTE: Not open for credit to students who have completed CHEM 001.*

**CHEM 011 4.0 Units**
**Basic Organic Chemistry & Biochemistry**
*C-ID: CHEM 102*
*Prerequisite**: CHEM 001 or CHEM 010*
*General Education: IGETC: Area 5A, 5C; CSU: Area B1, B3*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 48-54 lab.*
Presents an overview of organic chemistry and biochemistry for majors in nursing, home economics, liberal arts and technical fields. *Field trip may be required*. *Online work may be required.*

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# CHEM - Chemistry

**CHEM 012 Chemistry for the Health Sciences 5.0 Units**
*Course Advisory: CHEM 160 strongly recommended for students who have never taken Chemistry before; recommendation of MATH 104 based on a Multiple Measures Evaluation*
*General Education: SCC: Area C; IGETC: Area 5A; CSU: Area B1, B3*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 96-108 lab*
An overview of general, organic chemistry, and biochemistry for majors in nursing and other allied health occupations. Topics covered include chemical bonding, chemical equations, gas laws, solutions, acid-base theory, oxidation-reduction, functional groups and properties of organic compounds, and the structure and function of carbohydrates, lipids, proteins, and nucleic acids. These topics are discussed in the context of cellular metabolism and human health. This course is not a prerequisite for any chemistry course. *Field trip may be required*. *Online homework may be required. NOTE: Not open for credit to students who have completed CHEM 011.*

**CHEM 030 Chemistry and Society 3.0 Units**
*General Education: SCC: Area C; CSU: Area B1*
*Transferable to CSU*
*Hours: 48-54 lecture*
Chemistry course for non-science majors. The course covers the real world applications of chemistry in the home, the environment, nutrition, health, fitness, and medicine. Attention will be paid to racial disparities in pollution and health.

**CHEM 030L Chemistry and Society Laboratory 1.0 Unit**
*General Education: CSU: Area B3*
*Transferable to CSU*
*Hours: 48-54 lab*
Chemistry laboratory course for non-science majors. The experiments will help students understand and apply chemistry principles in our world and may involve the environment, nutrition, health, fitness, and medicine.

**CHEM 160 Introductory Chemistry 4.0 Units**
*General Education: SCC: Area C*
*Non-transferable to UC or CSU*
*Hc1ours: 48-54 lecture, 48-54 lab*
The fundamental principles of inorganic chemistry. *Field trips may be required. Online work may be required. NOTE: Not open to students who have completed CHEM 001, CHEM 010, or equivalent.*

**CHEM 505 0.0 Units**
**Supplemental Instruction in Chemistry**
*Non-transferable to UC or CSU*
*Hours: 16-18 lab*
An Open-Entry, open-exit course for students who seek academic support, through supplemental instruction, to fill in missing prerequisite knowledge and strengthen their problem solving skills in the following course/courses: CHEM 160, 010, 011, 012 , 001, 002, 003, 004 at Solano Community College

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Child Development and Family Studies

## Associate in Science in Early Childhood Education for Transfer (ADT: A.S.-T)

**Program Description**
Successful completion of this major prepares students to work in the field of early childhood education. Students will learn about child development, health and safety, observation and assessment, and techniques for effective classroom teaching including child guidance, curriculum development, and educating in a culturally respectful manner. One semester of practicum is required. This program aligns with the statewide Early Childhood Education Curriculum Alignment Project (CAP) which is designed to aid in student transfer. The CAP courses include: CDFS 038, CDFS 050, CDFS 053, CDFS 054 (or NUTR 054), CDFS 062, CDFS 063, CDFS 064, and CDFS 065.

The Associate in Science in Early Childhood Education for Transfer is especially appropriate for students who plan to complete a bachelor's degree in Early Childhood Education or Child Development at a CSU campus. Students completing and Associate in Science in Early Childhood Education for Transfer are guaranteed priority admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the Associate in Science in Early Childhood Education for Transfer will be required to complete nor more than 60 units after transfer to earn a bachelor's degree. This degree also prepares students for Early Childhood Education degree programs at other four-year institutions, but does not come with the same guarantees. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

**To earn the Associate in Science in Early Childhood Education for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or
      the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Science in Early Childhood Education for Transfer will be able to:

1. Demonstrate an understanding of child development theory, current research, and trends in the field, and their application to responsive practice in early care settings.
2. Demonstrate an understanding of the context of individual development including the centrality of family, culture, and community through developing techniques for creating meaningful relationships between home and school.
3. Develop curriculum and early care environments that are derived from unbiased observation and assessment of children's interests and developmental levels.
4. Demonstrate reflective practice in their work with young children by building awareness of self as teacher, child as learner, and early childhood pedagogy.

| **REQUIRED COURSES** | **Units** |
|---|---|
| CDFS 038 Child Growth and Development | 3 |
| CDFS 050 Child, Family and Community | 3 |
| CDFS 053 Teaching in a Diverse Society | 3 |
| CDFS 054 Child Health, Safety, and Nutrition | 3 |
| CDFS 062 Introduction to Early Childhood Education: Principles and Practices | 3 |
| CDFS 063 Introduction to Curriculum | 3 |
| CDFS 064 Observation and Assessment | 3 |
| CDFS 065 Early Childhood Education Practicum I | 4 |
| **Required Major Total Units** | **25** |

The Associate in Science in Early Childhood Education for Transfer requires 25 core units. Some of the units may double count for general education and the major (CDFS 038, CDFS 050). It is recommended that full time students enroll in CDFS 038, CDFS 050, and CDFS 062 in their first semester. Second semester students should take CDFS 054, CDFS 063, and CDFS 064. In the second year students should take CDFS 065, CDFS 053, and complete their other general education requirements. Practicum placements (CDFS 065) will be made at the Solano College Children's Program. Prior to the first week of enrollment in practicum, students will be required to pass a criminal record check and be fingerprinted at the District's expense.

# Child Development and Family Studies

## Early Childhood Education

*Certificate of Achievement and Associate in Science*

**Program Description**

This program offers comprehensive study of child development, strategies for child guidance, techniques for effective classroom interaction with emphasis on the child in the context of family and culture, and curriculum that enhances the development of the whole child. The Child Development and Family Studies Department is a participant in the Curriculum Alignment Project (CAP). A key effort of the Curriculum Alignment Project is to facilitate the transfer of the courses below as an integrated course of study promoting access to ongoing education and degree attainment. These courses will easily transfer between many California State Universities. The CAP courses include: CDFS 038, CDFS 050, CDFS 053, CDFS 054 (or NUTR 054), CDFS 062, CDFS 063, CDFS 064, and CDFS 065.

The Certificate of Achievement can be obtained upon successful completion of the 35-unit major. The Associate in Science can be obtained by completing the 35-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Early Childhood Education Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate an understanding of child development theory, current research, and trends in the field, and their application to responsive practice in early care setting.
2. Implement techniques that strengthen home and school partnerships in order to gain an ecological perspective of children's development.
3. Develop curriculum and early care environments that are derived from unbiased observation and assessment of children's interests and developmental levels.
4. Demonstrate reflective practice in their work with young children by building awareness of self as teacher, child as learner, and early childhood pedagogy.

| **REQUIRED COURSES** | **Units** |
|---|---|
| CDFS 038 Child Growth and Development | 3 |
| CDFS 050 Child, Family and Community | 3 |
| CDFS 053 Teaching in a Diverse Society | 3 |
| CDFS 054 Child Health, Safety, and Nutrition | 3 |
| or | |
| NUTR 054 Child Health, Safety, and Nutrition | 3 |
| CDFS 062 Introduction to Early Childhood Education: Principles and Practices | 3 |
| CDFS 063 Introduction to Curriculum | 3 |
| CDFS 064 Observation and Assessment | 3 |
| CDFS 065 Early Childhood Education Practicum I | 4 |
| CDFS 066 Early Childhood Education Practicum II | 4 |
| CDFS 077 Art and Scientific Inquiry for ECE | 3 |
| CDFS 078 Literacy and Music for ECE | 3 |
| **Required Major Total Units** | **35** |

Full-time students are advised to enroll in CDFS 038, CDFS 050, CDFS 062, and a required curriculum course (CDFS 077 or 078) during their first semester. Second semester students should take CDFS 054, CDFS 063, and CDFS 064. In the third and fourth semesters, students should take practicum (CDFS 065 and CDFS 066), CDFS 053, and a required curriculum course (CDFS 077 or 078). Students will spend their first semester of ECE Practicum I (CDFS 065) assigned to the Solano College Children's Program. A second semester may be spent either on campus or off campus (CDFS 066). Off campus placements will be made with an approved teacher from the Early Childhood Mentor Project. Prior to the first week of enrollment in CDFS 065 or 066, students will be required to pass a criminal record check and be fingerprinted at District expense.

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# Child Development and Family Studies

## Associate Teacher

*Certificate of Achievement*

**Program Description**

The Associate Teacher Certificate of Achievement meets the education requirements for the associate teacher level of the Child Development Permit Matrix issued by the State of California Commission on Teacher Credentialing and Community Care Licensing, Title 22 requirements for a fully qualified teacher. After meeting additional experience requirements, graduates are qualified to apply for a Child Development Permit, which is required to work in federal and state funded programs for children aged 0-5.

A Certificate of Achievement can be obtained by completing the 12-unit major with a minimum grade of C in each course or a P if taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Associate Teacher Certificate of Achievement will be able to:

1. Understand and apply developmental theories from conception through adolescence.
2. Design a play based curriculum which supports children using developmental, inclusive and anti-bias principles.
3. Identify and analyze quality early childhood practices including professionalism, self-reflection, play-based holistic learning, multiculturalism, and relationship building to ascertain their impact on children's development.
4. Demonstrate the ability to access community resources which support and empower children and families.

| **REQUIRED COURSES** | **Units** |
|---|---|
| CDFS 038 Child Growth and Development | 3 |
| CDFS 050 Child, Family and Community | 3 |
| CDFS 062 Introduction to Early Childhood Education: Principles and Practices | 3 |
| CDFS 063 Introduction to Curriculum | 3 |
| **Required Major Total Units** | **12** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# Child Development and Family Studies

## Infant/Toddler Teacher

*Certificate of Achievement*

**Program Description**

This program provides foundational skills in the care of infants and toddlers. Students gain knowledge of young children's social and emotional needs, how to create partnerships with families to provide culturally consistent and respectful care, and how to develop holistic play-based curriculum. Students will learn how to develop child care environments that are responsive to the needs of young children and skills for responsive interactions. Learning will be grounded in child development theories and knowledge of developmentally appropriate practice.

Students who complete the Certificate of Achievement meet the requirements to become a fully qualified associate teacher according to the Child Development Permit Matrix issued by the State of California Commission on Teacher Credentialing and Community Care Licensing, Title 22. Additionally, students will have the infant and toddler units mandated by Title 22 to work with children under 3 years of age. Students who wish to work with young children must pass a criminal record fingerprint clearance and show proof of immunization at the time of employment.

The Certificate of Achievement can be obtained by completing the 18-unit major with a minimum grade of C in each course or a P if taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Associate Teacher Certificate of Achievement will be able to:

1. Understand and apply developmental theories from conception through adolescence.
2. Design a play based curriculum which supports children using developmental, inclusive and anti-bias principles.
3. Identify and analyze quality early childhood practices including professionalism, self-reflection, play-based holistic learning, multiculturalism, and relationship building to ascertain their impact on children's development.
4. Demonstrate the ability to access community resources which support and empower children and families.

| **REQUIRED COURSES** | **Units** |
|---|---|
| CDFS 038 Child Growth and Development | 3 |
| CDFS 050 Child, Family and Community | 3 |
| CDFS 062 Introduction to Early Childhood Education: Principles and Practices | 3 |
| CDFS 063 Introduction to Curriculum | 3 |
| CDFS 075 Care of Infants and Toddlers: Social and Emotional Foundations | 3 |
| CDFS 076 Care of Infants and Toddlers: Curriculum and Environments | 3 |
| **Required Major Total Units** | **18** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# CDFS - Child Development and Family Studies

**CDFS 038 Child Growth and Development 3.0 Units**
*C-ID: CDEV 100*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D, E*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Examine the major physical, cognitive, and psychosocial developmental milestones (typical and atypical) and theories from conception through adolescence. Emphasis is placed on the interaction between maturational processes and environmental factors. Current research and methodologies are examined. Child observations and analysis are included. *Field trip may be required*.

**CDFS 040 Family Relationships 3.0 Units**
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D, E*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A study of sociological and psychological factors influencing relationships, particularly dating, family, and marital relationships, as well as alternative lifestyles in contemporary society, including factors that affect communication and interpersonal interactions within relationships.

**CDFS 050 Child, Family and Community 3.0 Units**
*C-ID: CDEV 110*
*General Education: SCC: Area E; CSU: Area D, E*
*Transferable to CSU*
*Hours: 48-54 lecture*
An examination of the developing child in a societal context focusing on the interrelationships of family, school and community, including historical and socio-cultural influences. Socialization and identity development are emphasized, as are teacher strategies for building respectful, reciprocal relationships that support and empower children and families.

**CDFS 052 Children with Special Needs 3.0 Units**
*Course Advisory: CDFS 038*
*Transferable to CSU*
*Hours: 48-54 lecture*
An introductory study of children with special needs, including causes of disabilities, their incidence, care, management, and general remedial procedures. Emphasis is on the child with disabilities in the home and community settings.

**CDFS 053 Teaching in a Diverse Society 3.0 Units**
*C-ID: ECE 230*
*General Education: SCC: Area E, F; Option B: SCC Cross-Cultural; CSU: Area D; SCC Cross-Cultural*
*Transferable to CSU*
*Hours: 48-54 lecture*
Examination of teaching young children in a diverse society in an effort to support optimal identity development, competency, and inclusion. Theoretical and practical implications of oppression and privilege will be explored as they apply to children, families, programs, classrooms, and teaching. Various classroom strategies will emphasize culturally and linguistically appropriate anti-bias approaches. Course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media, and schooling.

**CDFS 054 Child Health, Safety, and Nutrition 3.0 Units**
*C-iD: ECE 220*
*Course Advisory: CDFS 038 and CDFS 062*
*General Education: SCC: Area E; CSU: Area E*
*Transferable to CSU*
*Hours: 48-54 lecture*
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 on integrating the concepts into everyday planning and program development for all children. *This course is the same course as NUTR 054.*

**CDFS 062 3.0 Units**
**Introduction to Early Childhood Education: Principles and Practices**
*C-ID: ECE 120*
*Prerequisite**: CDFS 038 (may enroll concurrently)*
*Transferable to CSU*
*Hours: 48-54 lecture*
An examination of the underlying theoretical principles of developmentally appropriate practices applied to programs, environments, 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. This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics and professional identity.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# CDFS - Child Development and Family Studies

**CDFS 063 Introduction to Curriculum 3.0 Units**
*C-ID: ECE 130*
*Prerequisite**: CDFS 038*
*Course Advisory: CDFS 062 with a minimum grade of C*
*Transferable to CSU*
*Hours: 48-54 lecture*
An overview of knowledge and skills related to providing appropriate curriculum and environments for young children from birth to age 6. Students will examine a teacher's role in supporting development and fostering children's curiosity and learning. Through observation and assessment strategies students will develop appropriate play-based curriculum. An overview of content areas will include but not be limited to: Language and literacy, social and emotional learning, sensory learning, art and creativity, music, math, and science. *Field trip may be required*.

**CDFS 064 Observation and Assessment 3.0 Units**
*C-ID: ECE 200*
*Course Advisory: CDFS 038*
*Transferable to CSU*
*Hours: 48-54 lecture*
A focus on the appropriate use of assessment and observation strategies to document development, growth, play and learning to join with families and professionals in promoting children's success. Recording strategies, rating systems, portfolios, and multiple assessment tools are explored.

**CDFS 065 4.0 Units**
**Early Childhood Education Practicum I**
*C-ID: ECE 210*
*Prerequisite**: CDFS 050, CDFS 062, and CDFS 063*
*Transferable to CSU*
*Hours: 16-18 lecture, 144-162 lab by arrangement*
Supervised laboratory experience with infants through preschool children in the Solano College Early Learning Center. Students will spend 8 hours in practicum, 1 hour in a teacher meeting, and 1 hour in seminar for a total of 10 hours per week. 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 teacher design, implement and evaluate experiences that promote positive development and learning for all young children. *During the first week of enrollment, students will be required to be fingerprinted and cleared through Department of Justice and have a negative TB skin test at the District's expense.*

**CDFS 066 4.0 Units**
**Early Childhood Education Practicum II**
*Prerequisite**: CDFS 065*
*Transferable to CSU*
*Hours: 16-18 lecture, 144-162 lab by arrangement*
Emphasizes curriculum activities, comprehensive case studies, methods of child observation, and relationships of theories to practices. Students may be placed in the Solano College Children's Programs on campus or with a Mentor teacher (selected by the SCC/ECE Mentor teacher selection committee) off campus. Students will spend 8 hours in practicum, 1 hour in a teacher meeting, and 1 hour in seminar for a total of 10 hours per week. *During the first week of enrollment, students will be required to be fingerprinted and cleared through Department of Justice and have a negative TB skin test at the District's expense.*

**CDFS 070 Lifespan Human Development 3.0 Units**
*General Education: SCC: Area E; CSU: Area D, E*
*Transferable to CSU*
*Hours: 48-54 lecture*
A survey of human development throughout the life cycle, including physical, social, intellectual, and emotional development from conception to death. Includes direct observation.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# CDFS - Child Development and Family Studies

**CDFS 075** **3.0 Units**
**Care of Infants and Toddlers: Social and Emotional Foundations**
*Transferable to CSU*
*Hours: 48-54 lecture*
Examine relationship-based infant/toddler group care, with an emphasis on social and emotional development. Theoretical foundations of quality care are addressed including the importance of home-family connections, cultural continuity, and responsive practice. Skills for individualizing care, routines, and working with children with special needs are explored.

**CDFS 076** **3.0 Units**
**Care of Infants and Toddlers: Curriculum and Environments**
*Transferable to CSU*
*Hours: 48-54 lecture*
Based on theory and an holistic approach to development, this course explores quality environments and curriculum for infants and toddlers. Through observation and assessment, students develop skills for creating meaningful cognitive, physical, literacy, and social and emotional experiences in group care.

**CDFS 077 Art and Scientific Inquiry for ECE** **3.0 Units**
*Transferable to CSU*
*Hours: 48-54 lecture*
An exploration of art and science curriculum appropriate to the development of young children. Emphasis is placed on children's use of art and science to foster creativity, inquiry, and knowledge about themselves and the physical world. The curriculum planning process as applied to early childhood STEAM (science, technology, engineering, art, and mathematics) experiences is emphasized. *Field trip may be required*.

**CDFS 078 Literacy and Music for ECE** **3.0 Units**
*Transferable to CSU*
*Hours: 48-54 lecture*
An exploration of language, literacy, music, and movement in early childhood education. Emphasis is placed on understanding and creating developmentally appropriate and culturally inclusive classroom experiences that promote emergent literacy and musical expression. Students will evaluate materials for quality and engage in teaching practices that promote children's holistic learning such as singing, instrument use, movement activities, teacher-child interaction, storytelling, puppetry, and dramatic play.

**CDFS 080 Early Childhood Administration** **3.0 Units**
*Prerequisite**: CDFS 038 and CDFS 062*
*Transferable to CSU*
*Hours: 48-54 lecture*
An overview of the fundamental duties and responsibilities of Early Childhood Administration, including preparation, implementation and evaluation of the program goals and budget controls. *Meets requirements set by the California Commission on Teacher Credentialing for Site Supervisor and Program Director permit and State of California Community Care Licensing.*

**CDFS 081 Early Childhood Staff Supervision** **3.0 Units**
*Prerequisite**: CDFS 038, CDFS 050, and CDFS 062*
*Transferable to CSU*
*Hours: 48-54 lecture*
A presentation of the fundamentals involved in becoming a more effective supervisor and methods and procedures in dealing with selection, supervision and evaluation of staff in an early childhood setting. *Meets the requirements set by the California Commission on Teacher Credentialing for the Site Supervisor and Program Director Permit and State of California Community Care Licensing.*

**CDFS 082** **2.0 Units**
**Adult Supervision: The Mentor Teacher**
*Prerequisite**: CDFS 038, CDFS 050, and CDFS 062*
*Transferable to CSU*
*Hours: 32-36 lecture*
Methods and principles of supervising student teachers in early childhood classrooms. Emphasis on the role of experienced classroom teachers who function as mentors to new teachers while simultaneously addressing the needs of children, parents and other staff. *Required for the Master Teacher, Site Supervisor, and Program Director Permits issued by the California Commission on Teaching Credentialing.*

**CDFS 099** **1.0 to 3.0 Units**
**Early Childhood Education Honors**
*Prerequisite**: Completion of 24.0 units of college credit with a minimum GPA of 3.3; a minimum of 5.0 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability*
*Transferable to CSU*
*Hours: 48-162 lab by arrangement*
An independent study and research class in the areas of infant, toddler, and preschool early education programs. The student and instructor design an outlined program of study. *Students may continue CDFS 099 over multiple semesters not to exceed 3 units.*

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Communication Studies

## Associate in Arts in Communication Studies 2.0 for Transfer (ADT: A.A.-T)

**Program Description**

The Associate in Arts in Communication Studies 2.0 for Transfer Program is broad-based and concerned with the preparation and delivery of messages in interpersonal, public and business situations. This program focuses on understanding the communication process and improving communication skills. The program prepares the students to pursue professional goals in a variety of career possibilities including: Community College Teacher, Speech Writer, Communication Consultant, Lawyer, Minister, Personnel Director, Sports Broadcast Journalist, Public Relations, Political Campaign Aide, Sales, Counselor.

The Associate in Arts in Communication Studies 2.0 for Transfer is especially appropriate for students who plan to complete a bachelor's degree in Communication Studies at a CSU campus. Students completing the AA-T are guaranteed priority admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the AA-T in Communication Studies will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree also prepares students for communication studies degree programs at other four-year institutions, but does not come with the same guarantees. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

**To earn the Associate in Arts in Communication Studies 2.0 for Transfer, a student must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**

Students who complete the Associate in Arts in Communication Studies 2.0 for Transfer will be able to:

1. Critically evaluate speeches, debates, and other communicative performances.
2. Comprehend the skills and techniques necessary to be organized, confident communicators in a variety of classroom settings.
3. Understand the process of communication and communication methods in multiple contexts.
4. Communicate utilizing a variety of performance methods.

| **REQUIRED COURSES** | **Units** |
|---|---|
| COMM 001 Introduction to Public Speaking | 3 |
| COMM 010 Interpersonal Communication | 3 |
| Three courses from List A | 9 |
| One course from List B | 3 |
| **Required Major Total Units** | **18** |

| **List A: (select two courses)** | **Units** |
|---|---|
| COMM 006 Argumentation and Debate | 3 |
| COMM 008 Group Communication | 3 |
| COMM 050 Forensics/Speech Workshop | 1-4 |
| COMM 012 Intercultural Communication | 3 |
| COMM 002 Fundamentals of Persuasive Speaking | 3 |
| COMM 010 Interpersonal Communication | 3 |
| JOUR 011 Introduction to Mass Communication | 3 |

| **List B: (select two courses)** | **Units** |
|---|---|
| ANTH 002 Cultural Anthropology | 3 |
| PSYC 001 Introduction to Psychology | 3 |
| SOC 001 Introduction to Sociology | 3 |
| JOUR 001 Introduction to Reporting and Newswriting | 3 |
| ENGL 002 Critical Thinking and Writing about Literature | 3 |
| ENGL 004 Critical Thinking and Composition: Language in Context | 3 |
| Any List A course not used | 3 |

*Consult with your **counselor** for guidance on custom course pathway*

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Communication Studies

## Sports Broadcasting

*Certificate of Achievement*

**Program Description**

This program offers students hands-on experience in the basics of television and internet sports broadcasting. Areas of concentration include performance and technical training for a variety of televised sporting events and productions. The program is geared for those who are interested in obtaining employable skills in a short timeframe, may be completed in one year and serves as a professional development opportunity.

A Certificate of Achievement can be obtained by completing the 12-unit major with a minimum grade of C or a P if taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Sports Broadcasting Certificate of Achievement will be able to:

1. Obtain and demonstrate skill set for entry level positions in broadcasting and electronic media productions.
2. Amass a minimum of 200 experience hours working on sports production tasks and to acquire recorded audio/video content to compile a demo tape.
3. Broadcast production assignments totaling 200 hours, exams, self-evaluation journals, and viewer response and evaluations.
4. Demonstrate ability to work as an individual as well as an effective team member on sports productions.

| **REQUIRED COURSES** | **Units** |
|---|---|
| COMM 075A Sports Broadcasting – Fall Sports | 3 |
| COMM 075B Sports Broadcasting – Spring Sports | 3 |
| COMM 080A TV Sports Production – Fall Sports | 3 |
| COMM 080B TV Sports Production – Spring Sports | 3 |
| **Required Major Total Units** | **12** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# COMM - Communication Studies

**COMM 001 Introduction to Public Speaking 3.0 Units**
*C-ID: COMM 110*
*General Education: SCC: Area B; IGETC: Area 1C; CSU: Area A1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A public speaking course which includes instruction and practice in the various forms of public address and the techniques for orally presenting ideas clearly, concisely, and coherently. Students are required to outline speeches frequently and/or complete a detailed manuscript of the speech; to read a college-level public speaking textbook and apply its principles in the preparation of their speeches; to critically analyze public speeches of various types.

**COMM 002 3.0 Units**
**Fundamentals of Persuasive Speaking**
*C-ID: COMM 190*
*General Education: SCC: Area B; IGETC: Area 1C; CSU: Area A1, A3*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Instruction and practice in the various forms of persuasive speaking including, but not limited to, sales presentations, speeches of praise/blame, propaganda, and opposing viewpoints. Students are required to outline persuasive speeches frequently; to read a college-level persuasive speaking textbook and apply its principles in the preparation of their persuasive speeches; to critically analyze persuasive speeches; and to deliver persuasive speeches of various types. These speeches will be presented in class, in person, to an audience of peers. Faculty evaluation will be done in the classroom in person.

**COMM 006 Argumentation and Debate 3.0 Units**
*C-ID: COMM 120*
*General Education: SCC: Area B; IGETC: Area 1C; CSU: Area A1, A3*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Instruction and practice in the principles of argumentation and in the various forms of debate including the analysis of propositions, research, evidence and reasoning. Students are required to practice various forensic debating techniques through the presentation of their outlined advocate/government and opposition cases after investigating major contemporary issues; to read a college level argumentation and debate textbook and apply its principles in the preparation of their cases, and to critically analyze debate cases. These debates will be presented in class, in person, to an audience of peers. Faculty evaluation will be done in the classroom in person.

**COMM 008 Group Communication 3.0 Units**
*C-ID: COMM 140*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Increases students' understanding of group communication behaviors related to problem-solving, decision-making, leadership, group roles, norms and conformity and to prepare students to function more effectively in groups. This course is for students majoring in speech communication, business, international business, education, nursing, and all fields of study and certifications that require group and team-building skills.

**COMM 010 Interpersonal Communication 3.0 Units**
*General Education: SCC: Area B*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Communication principles as applied to different interpersonal communication situations including verbal and non-verbal communication, listening, overcoming barriers to communication, and conflict resolution.

**COMM 012 Intercultural Communication 3.0 Units**
*C-ID: COMM 150*
*General Education: SCC: Area E, Area F; IGETC: Area 4, SCC Cross-Cultural; CSU: Area D, SCC Cross-Cultural*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An introduction to the challenges and promises of intercultural communication with application to American culture, subcultures, and different cultures of the world. Specific focus will be development of the ability to acknowledge and understand the unique voice of people from the African, Asian, Latina, Middle Eastern, and Pacific Island cultures as well as co-cultures within the United States. Through lectures, readings, films, group discussions, written and oral assignments, students will learn the skills necessary to achieve positive outcomes when communicating with others that are perceived as different.

**COMM 015 Oral Interpretation of Literature 3.0 Units**
*C-ID: COMM 170*
*General Education: SCC: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Study of literature through oral performance that includes development of skills in the analysis and interpretation of prose, poetry, and dramatic literature. Emphasis on vocal and physical techniques to orally communicate understanding of the literature performed.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# COMM - Communication Studies

**COMM 049 Speech Honors 1.0 to 3.0 Units**

*Prerequisite**: Completion of 30 or more units of transferable college credit including 6 units of transferable COMM; ENGL 001 with a minimum grade of B; an ability to work independently; and permission of the School Dean based on instructor availability*
*Transferable to CSU*
*Hours: 48-162 lab by arrangement*

An independent study program designed for students who have completed the available Communication Studies offerings and wish to continue work in one of these areas, or work with an instructor in a specialized area of oral communication. The student and instructor design an outlined program of study. *Students may take this course up to the maximum number of units over multiple semesters.*

**COMM 050 1.0 to 4.0 Units**

**Forensics/Speech Workshop**

*C-ID: COMM 160*
*Transferable to CSU*
*Hours: 16-18 lecture, 0-162 lab*

Provides training in the principles of all forms of competitive speaking, oral interpretation and debate, including participation in intercollegiate competitions and appearances before campus and community groups. Students attend intercollegiate forensic tournaments and festivals or speak before campus or community audiences. *Participation may include weekends and off campus travel. This is an Open entry/Open exit course.*

**COMM 060 3.0 Units**

**Business and Professional Communication**

*General Education: SCC: Area B*
*Transferable to CSU*
*Hours: 48-54 lecture*

Presents practical communication skills to allow students to achieve effective verbal communication in business situations, community activities and other areas of daily life. Areas of discussion include basic practical communication skills. Assignments and exercises are employed to allow students to achieve effective verbal communication in business situations, community activities, and other areas of daily life, including giving and receiving instructions, interviewing, verbal and non-verbal communication.

**COMM 075A 3.0 Units**

**Sports Broadcasting - Fall Sports**

*Transferable to CSU*
*Hours: 24-27 lecture, 72-81 lab*

A professional approach to the basics of on-air and internet sports broadcasting of football, soccer, volleyball and tennis. Areas of concentration include performance training for play-by-play description, color commentary, compiling and organizing statistical data for football, soccer, volleyball and tennis broadcasts. The course includes an in-depth approach to careers in broadcast communication with concentration on all aspects of research preparation and delivery presentation to establish and sustain a career in sports broadcasting in one or more of the following sports: football, soccer, volleyball and/or tennis. *Students will be required to attend weekly athletic events to fulfill activity hours. Events typically on TWRF.*

**COMM 075B 3.0 Units**

**Sports Broadcasting - Spring Sports**

*Transferable to CSU*
*Hours: 24-27 lecture, 72-81 lab*

A professional approach to the basics of on-air and internet sports broadcasting of baseball, softball, basketball, hockey and swimming. Areas of concentration include performance training for play-by-play description, color commentary, compiling and organizing statistical data for baseball, softball, basketball, swimming and hockey broadcasts. The course includes an in-depth approach to careers in broadcast communication with concentration on all aspects of research preparation and delivery presentation to adequately and effectively establish and sustain a career in sports broadcasting in one or more of the following sports: baseball, softball, basketball, hockey and/or swimming. *Students will be required to attend weekly athletic events to fulfill activity hours. Events typically on TWRFS.*

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# COMM - Communication Studies

**COMM 080A** **3.0 Units**

**TV Sports Production - Fall Sports**

*Transferable to CSU*

*Hours: 24-27 lecture, 72-81 lab*

Instruction and training in the fundamentals of televised sports productions, both in the studio and on location. The course focuses on all aspects of production: directing, board operation, computer graphics, videography, instant replay and pre- and post-production editing as it pertains to football, soccer, tennis and volleyball. *Students required to attend weekly athletic events to fulfill activity hours. Events typically on TWRF afternoons and/or evenings.*

**COMM 080B** **3.0 Units**

**TV Sports Production - Spring Sports**

*Transferable to CSU*

*Hours: 24-27 lecture, 72-81 lab*

Instruction and training in the fundamentals of televised sports productions, both in the studio and on location. The course focuses on all aspects of production: directing, board operation, computer graphics, videography, instant replay and pre- and post-production editing as it pertains to basketball, baseball, softball, basketball, hockey and swimming. *Students required to attend weekly athletic events to fulfill activity hours. Events typically on TWRFS afternoons and/or evenings.*

# Computer Information Science

## Computer Programming

*Certificate of Achievement and Associate in Science*

**Program Description**

This program is designed to prepare the student for employment as a computer programmer trainee.

The Certificate of Achievement can be obtained upon completion of the 33-unit major. The Associate in Science may be obtained by completing the 33-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Computer Programming Certificate of Achievement/Associate in Science will be able to:

1. Construct applications that use GUI (graphical user interface) components and access databases for data permanence.
2. Develop a programming solution to a data structure problem using object-oriented methodologies and appropriate data structures and algorithms.
3. Implement a well-designed, properly normalized relational database after analyzing user requirements and business rules.

| **REQUIRED COURSES** | **Units** |
|---|---|
| *(listed in recommended sequence)* | |
| CIS 001 Introduction to Computer Science | 3 |
| BUS 092 Business Communication | 3 |
| CIS 022 Introduction to Programming | 3 |
| CIS 055 MS Windows Operating Systems | 3 |
| CIS 023 Data Structures and Algorithms | 3 |
| CIS 015 Programming in Visual Basic.NET | 3 |
| CIS 089 Essential Networking Technologies | 3 |
| CIS 078 Access - Database Management System | 3 |
| CIS 052 UNIX Operating System | 3 |
| CIS 020 Assembly Programming | 3 |
| 3 units from Recommended Electives | 3 |
| **Required Major Total Units** | **33** |

| **Recommended Electives** (select 3 units) | **Units** |
|---|---|
| ACCT 001 Principles of Accounting - Financial | 4 |
| ACCT 002 Principles of Accounting – Managerial | 4 |
| BUS 005 Introduction to Business | 3 |
| CIS 035 Introduction to Java Programming | 3 |
| CIS 060 Introduction to the Internet | 1.5 |
| CIS 061 Creating Web Pages | 3 |
| CIS 066 Microsoft Word | 3 |
| CIS 073 Microsoft Excel | 3 |
| CIS 080 SQL Database Management Systems | 3 |
| OCED 090 Occupational Work Experience | 1- 8 |
| OCED 091 General Work Experience | 1-6 |

*Note: Students planning to transfer to a four-year college and major in Management Information Systems/ Computer Science should see a counselor regarding Business Articulation Agreements for a particular university campus.*

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Computer Information Science

## Microcomputer Applications

*Certificate of Achievement and Associate in Science*

**Program Description**

This program is designed to prepare the student for employment as a microcomputer applications specialist.

The Certificate of Achievement can be obtained upon completion of the 30-unit major. The Associate in Science may be obtained by completing the 30-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Microcomputer Applications Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate knowledge of application software such as word processing, spread sheets, personal information management, database, operating systems, and networking, presentation and html editors.
2. Understand Visual Basic programming.
3. Demonstrate effective oral and written communication.

| **REQUIRED COURSES** | **Units** |
|---|---|
| *(listed in recommended sequence)* | |
| CIS 001 Introduction to Computer Science | 3 |
| CIS 015 Programming in Visual Basic.NET | 3 |
| CIS 055 MS Windows Operating Systems | 3 |
| CIS 061 Creating Web Pages | 3 |
| CIS 066 Microsoft Word | 3 |
| CIS 073 Microsoft Excel | 3 |
| CIS 078 Access - Database Management System | 3 |
| CIS 089 Essential Networking Technologies | 3 |
| CIS 090 Introduction to PowerPoint | 1.5 |
| CIS 091 Microsoft Outlook | 1.5 |
| BUS 092 Business Communication | 3 |
| **Required Major Total Units** | **30** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Computer Information Science

## Web Design and Development

*Certificate of Achievement and Associate in Science*

**Program Description**

This program is designed to prepare the student for employment as a website designer or developer. Career Opportunities: Web Designer, Web Development, Motion Graphic/Animation Video Editor, Print Designer.

The Certificate of Achievement can be obtained upon completion of the 22.5-unit major. The Associate in Science may be obtained by completing the 22.5-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Web Design and Development Certificate of Achievement/Associate in Science will be able to:

1. Produce functional web pages replete with responsive web elements.
2. Properly use design elements and an HTML editor in creating web pages.
3. Develop a project incorporating CSS, search forms, tables, photo galleries, shared borders, themes, interactive components, dynamic web pages and publish to a server.
4. Create web elements for print design and production.
5. Create and edit production quality animation and video

| **REQUIRED COURSES** | **Units** |
|---|---|
| CIS 001 Introduction to Computer Science | 3 |
| CIS 061 Creating Web Pages | 3 |
| CIS 062 Creating Web Interactivity with Flash | 3 |
| CIS 069 Multimedia for the Web | 3 |
| CIS 070 Adobe Photoshop for the Web | 3 |
| CIS 085 Digital Publishing with InDesign | 3 |
| CIS 087 Adobe Illustrator for the Web | 3 |
| BUS 097 Work Readiness | 1.5 |
| **Required Major Total Units** | **22.5** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Computer Information Science

## Computer Applications Specialist

*Job-Direct Low Unit Certificate*

| **REQUIRED COURSES** | **Units** |
|---|---|
| BUS 097 Work Readiness | 1.5 |
| CIS 066 Microsoft Word | 3 |
| CIS 073 Microsoft Excel | 3 |
| CIS 078 Access - Database Management System | 3 |
| **Total Units** | **10.5** |

## Microsoft Office Specialist

*Job-Direct Low Unit Certificate*

| **REQUIRED COURSES** | **Units** |
|---|---|
| CIS 066 Microsoft Word | 3 |
| CIS 073 Microsoft Excel | 3 |
| CIS 078 Access-Database Management System | 3 |
| CIS 090 Introduction to PowerPoint | 1.5 |
| CIS 091 Microsoft Outlook | 1.5 |
| **Total Units** | **12** |

## Database Specialist

*Job-Direct Low Unit Certificate*

| **REQUIRED COURSES** | **Units** |
|---|---|
| CIS 072 Extensible Markup Language (XML) | 1.5 |
| CIS 078 Access - Database Management System | 3 |
| CIS 080 SQL Database Management Systems | 3 |
| **Total Units** | **7.5** |

## Motion Graphic Editor

*Job-Direct Low Unit Certificate*

| **REQUIRED COURSES** | **Units** |
|---|---|
| CIS 062 Creating Web Interactivity | 3 |
| CIS 069 Multimedia for the Web | 3 |
| CIS 087 Adobe Illustrator for the Web | 3 |
| **Total Units** | **9** |

## Digital and Print Publishing

*Job-Direct Low Unit Certificate*

| **REQUIRED COURSES** | **Units** |
|---|---|
| CIS 070 Adobe Photoshop for the Web | 3 |
| CIS 085 Digital Publishing with InDesign | 3 |
| CIS 087 Adobe Illustrator for the Web | 3 |
| BUS 097 Work Readiness | 1.5 |
| **Total Units** | **10.5** |

## Web Programmer

*Job-Direct Low Unit Certificate*

| **REQUIRED COURSES** | **Units** |
|---|---|
| CIS 015 Programming in Visual Basic.NET | 3 |
| CIS 035 Introduction to Java Programming | 3 |
| CIS 068 Object Oriented Game Programming with Flash | 3 |
| CIS 075 Client-Side Web Programming | 3 |
| CIS 081 Server-Side Web Programming | 3 |
| **Total Units** | **15** |

## Digital Media and Web Development

*Job-Direct Low Unit Certificate*

| **REQUIRED COURSES** | **Units** |
|---|---|
| CIS 061 Creating Web Pages | 3 |
| CIS 062 Creating Web Interactivity | 3 |
| CIS 070 Adobe Photoshop for the Web | 3 |
| CIS 087 Adobe Illustrator for the Web | 3 |
| **Total Units** | **12** |

*Consult with your **counselor** for guidance on custom course pathway*

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# CIS - Computer Information Science

**CIS 001 Introduction to Computer Science 3.0 Units**
*Course Advisory: keyboarding speed 30 wpm*
*General Education: SCC: Area B*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 16-18 lab*
An introduction to the hardware and software components of basic computer information systems. Also, an examination of information systems and their role in business. A review of historical, social and cultural implications of computer technology in today's society. Course content will include hands-on familiarization with a computer operating system and common application software. Additionally, the course includes an introduction to computer programming using an object-oriented programming language such as Java, Python, C++ or Visual Basic.Net. Students will learn to develop problem specifications, detailed analyses, design algorithms, and construct structured computer programs.

**CIS 015 Programming in Visual Basic.NET 3.0 Units**
*Prerequisite**: CIS 001*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 16-18 lab*
An introduction to Object Oriented Programming (OOP) using Visual Basic.NET, emphasizing problem-solving techniques using structured design and development. An extensive coverage of the Visual Basic computer language will be conducted using the Microsoft.Net environment. Students will construct forms and define procedures, events, properties, methods and objects to solve a variety of business-oriented problems.

**CIS 020 Assembly Programming 3.0 Units**
*C-ID: COMP 142*
*Prerequisite**: CIS 015, CIS 022 or CIS 035*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 48-54 lab*
A hardware-oriented programming course dealing with programming a computer at the assembler language level. Emphasis will be on the assembly language of computers.

**CIS 021 3.0 Units**
**Discrete Structures for Computer Science**
*C-ID: COMP 152*
*Prerequisite**: CIS 023 and Math 020*
*General Education: IGETC: Area 2*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 48-54 lab*
An introduction to the discrete structures used in Computer Science with an emphasis on their applications. Topics covered include: Functions, Relations and Sets; Basic Logic; Proof Techniques; Basics of Counting; Graphs and Trees; and Discrete Probability.

**CIS 022 Introduction to Programming 3.0 Units**
*C-ID: COMP 122*
*Prerequisite**: CIS 001*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 16-18 lab*
An introduction to computer programming. The course's content will include 'hands-on' development of structured algorithms and programs through top-down design, modular and object oriented programming, and standardized control structures. Taught using an object-oriented computer programming language such as C++, C#, Java, etc.

**CIS 023 Data Structures and Algorithms 3.0 Units**
*C-ID: COMP 132*
*Prerequisite**: CIS 022*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 48-54 lab*
A study of the basic concepts associated with the creation and manipulation of data structures and their related processing algorithms. Topics include software engineering principles, the selection, design, and implementation of data structures including arrays, sequential and random access files, strings, stacks, queues, linked lists, and binary trees, and the development of efficient algorithms for sorting, searching, and manipulating these data structures. Taught using an object-oriented computer programming language such as C++, C#, Java, etc.

**CIS 035 Introduction to Java Programming 3.0 Units**
*Prerequisite**: CIS 015, CIS 022 or CIS 023*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 48-54 lab*
Introduces Object Oriented Programming (OOP) using the Java programming language. Includes hands-on development of Java applets and Java applications using objects, classes, interfaces and Graphical User Interface (GUI) components.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
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# CIS - Computer Information Science

**CIS 049** **1.0 to 3.0 Units**

**Computer and Information Science Honors**

*Prerequisite**: Completion of 24.0 units of college credit with a minimum GPA of 3.3; a minimum of 5.0 units in the discipline with a minimum grade of C; an ability to work independently; permission of the School Dean based on instructor availability*

*Transferable to CSU*

*Hours: 48-162 lab by arrangement*

Designed for honor students who intend to major in one of the Computer and Information Science options. Students are expected to design their own projects and must submit them to the instructor for approval. *Students may take this course up to the maximum number of units over multiple semesters.*

**CIS 050 Microcomputer Applications** **3.0 Units**

*Course Advisory: Basic keyboarding skills at 30 wpm*

*General Education: SCC: Area B*

*Transferable to CSU*

*Hours: 48-54 lecture*

An introduction to microcomputers and the more frequently used applications software. The course is designed for the microcomputer user who is not a computer science major. The purpose of this course is to help students to understand the concepts and fundamentals of working with: an operating system with its associated graphical user interface, word processing, spreadsheets, databases and presentation software.

**CIS 052 UNIX Operating System** **3.0 Units**

*Course Advisory: CIS 055*

*Transferable to CSU*

*Hours: 48-54 lecture*

An analysis of the UNIX operating system, its terminology, user utilities, file structure, file security, commands, shells, shell programming, system architecture, and system administration. Emphasis will be placed on the shell environment, shell programming and utilities. The course will include hands-on exercises for the students to complete using the UNIX operating system (Currently taught using LINUX).

**CIS 055 MS Windows Operating Systems** **3.0 Units**

*Course Advisory: CIS 001; basic keyboarding skills*

*Transferable to CSU*

*Hours: 48-54 lecture*

How to use the Graphical User Interface (GUI) and the command line interface in carrying out system tasks in the MS Windows operating systems. Topics include file management, hard disk management, system tools, batch files, connectivity, and the registry.

**CIS 060 Introduction to the Internet** **1.5 Units**

*Transferable to CSU*

*Hours: 24-27 lecture*

Prepares students to use the Internet, a world wide computer network. Emphasis is on introducing features of the Internet, including electronic mail, the World Wide Web, Gopher, FTP (file transfer protocol), Telnet, and Usenet, as well as other Internet services and utilities. Students will explore hands-on the vast resources of the Internet, learn to access information using a variety of methods, and will construct a simple Web page.

**CIS 061 Creating Web Pages** **3.0 Units**

*Course Advisory: CIS 001*

*Transferable to CSU*

*Hours: 48-54 lecture*

Prepares students to develop web sites that interact with databases. Emphasis is on the creation of Web sites with interactive Web pages, data access Web pages, and web pages with interactive components. Students will explore hands-on access to the Internet and an HTML editor to create and maintain Web sites.

**CIS 062 Creating Web Interactivity** **3.0 Units**

*Course Advisory: CIS 001 and CIS 061*

*Transferable to CSU*

*Hours: 48-54 lecture*

Covers the creation of vector-based graphics, animation, and interactivity within the Web environment. Emphasis will be placed on applying design principles to the elements of motion and interactivity. The basic operating principles of Adobe Animate will be applied in order to create Web content with animation, interactive buttons, and sound. Issues of optimal delivery and web accessibility will also be covered. A portfolio-quality professional level capstone project will be developed and presented.

**CIS 066 Microsoft Word** **3.0 Units**

*Course Advisory: CIS 001 or CIS 050; ability to keyboard at 30 wpm*

*Transferable to CSU*

*Hours: 48-54 lecture*

An in-depth study of the functions of the word processing program. Students will learn how to use basic and advanced program features to create and design business documents.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***

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# CIS - Computer Information Science

**CIS 069 Multimedia For the Web 3.0 Units**
*Course Advisory: CIS 061*
*Transferable to CSU*
*Hours: 48-54 lecture*
An in-depth look at designing multimedia for the Web. Topics include developing graphic elements such as buttons, background textures and images for a Web site, using Cascading Style Sheets to position graphics, using Adobe Animate CC to create web site interactivity, adding audio and/or video to a Web site, and manipulating Web multimedia file formats.

**CIS 070 Adobe Photoshop for the Web 3.0 Units**
*Course Advisory: CIS 001 or CIS 050*
*Transferable to CSU*
*Hours: 48-54 lecture*
Emphasizes the use of computer technology to create and manipulate raster and vector digital images. Students use Photoshop techniques to produce digital creations for the web. Layers, filter effects, blending modes, and other editing tools will be used to produce digital images appropriate for print and electronic reproduction. The elements of Photoshop for use in industry-standard web and print production will be explored.

**CIS 073 Microsoft Excel 3.0 Units**
*Course Advisory: CIS 001; ability to keyboard at 30wpm*
*Transferable to CSU*
*Hours: 48-54 lecture*
A thorough study of spreadsheet operation and enables the student to use the spreadsheet to perform mathematical computations and analysis. Students will create graphic representations of the information contained in a spreadsheet, perform list management routines, use functions, perform 'what if' analysis, customize toolbars and menus, and create macros using Visual Basic for Applications.

**CIS 078 3.0 Units**
**Access - Database Management System**
*Course Advisory: CIS 001*
*Transferable to CSU*
*Hours: 48-54 lecture*
An introduction to relational database management using microcomputers. Microsoft's Access database management program is used. Students will learn how to create and maintain relational database structures, organize and manipulate data, ask questions of the data, create custom forms for entering data and custom reports for printing the data. How to publish objects on the Internet's World Wide Web is presented. The student will learn how to construct a complete application combining previously created tables, queries, forms, and reports. Visual BASIC Applications (VBA) and Structured Query Language (SQL) are introduced. Advanced database design is explored and the student learns how to 'normalize' a database structure.

**CIS 080 SQL Database Management Systems 3.0 Units**
*Course Advisory: CIS 001; CIS 078*
*Transferable to CSU*
*Hours: 48-54 lecture*
Provides knowledge and skills in advanced database systems that use the SQL language such as IBM's DB2, Oracle, Sybase and Microsoft's SQL Server. This course is designed for the end user, the database designer and the database administrator. Microsoft SQL Server 2008 is the database system currently used for this course.

**CIS 081 Server-Side Web Programming 3.0 Units**
*Course Advisory: CIS 001 and CIS 061*
*Transferable to CSU*
*Hours: 48-54 lecture*
Emphasizes the creation of interactive web sites using a server-sided scripting language such as ASP.Net, CGI, or Perl. Topics include core features of the server-side scripting language, control structures, functions, arrays, form validations, regular expressions, environmental variables, and database-driven web applications.

**CIS 083 Web Server Administration 3.0 Units**
*Course Advisory: CIS 001 and CIS 061*
*Transferable to CSU*
*Hours: 48-54 lecture*
Web server installation and administration for the internet and intranet. Topics covered include the installation, configuration, management and tuning of web services, security, online transaction processing, and FTP services.

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# CIS - Computer Information Science

**CIS 085 Digital Publishing with InDesign 3.0 Units**
*Course Advisory: CIS 001 or CIS 050*
*Transferable to CSU*
*Hours: 48-54 lecture*
An introduction to the graphics software program, Adobe InDesign. Students will learn to produce and publish publications, employing vector graphics, and typography as well as color and print management. This course will establish an understanding of the basic features in Adobe InDesign for use in both print and digital media.

**CIS 087 Adobe Illustrator for the Web 3.0 Units**
*Course Advisory: CIS 001 or CIS 050*
*Transferable to CSU*
*Hours: 48-54 lecture.*
An introduction to the graphics software program, Adobe Illustrator. Students will learn to create vector shapes, import, export and modify graphics, and use Illustrator tools. This course will establish an understanding of the basic features in Adobe Illustrator for use in digital media.

**CIS 089 Essential Networking Technologies 3.0 Units**
*Course Advisory: CIS 001*
*Transferable to CSU*
*Hours: 48-54 lecture*
A general introductory overview of networking. Network design, media, protocols, architectures, operations, and administration will be discussed. Local area networks, wide area networks, and network connectivity (including Internet) are covered. This course is the foundation of all other network classes and helps prepare the student to be successful when taking various certified examinations.

**CIS 090 Introduction to PowerPoint 1.5 Units**
*Course Advisory: CIS 001 or CIS 050; ability to keyboard 30 wpm*
*Transferable to CSU*
*Hours: 24-27 lecture*
An introduction to features and design concepts utilized in developing powerful presentations using a package software such as Microsoft PowerPoint.

**CIS 091 Microsoft Outlook 1.5 Units**
*Course Advisory: CIS 001 or CIS 050; basic keyboarding skills*
*Transferable to CSU*
*Hours: 24-27 lecture*
An introduction to Outlook's features. Students will work with the Contact address book; Inbox and e-mail; Journal; Notes; Tasks; use Calendar to track and schedule appointments, events and meetings; work with forms and templates; use Outlook with other applications.

**CIS 106 Computer Literacy 1.0 Unit**
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 8-9 lab.*
A brief introduction to information technology for novices. Including an introduction to computer components, as well as hands-on activities utilizing the Windows operating system, word processing and spreadsheet software and the internet.

**CIS 110 Wireless LANs 1.5 Units**
*Course Advisory: CIS 001*
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture, 8-9 lab*
Planning, designing, installing and configuring wireless LANs. The course offers in-depth coverage of wireless networks with extensive step-by-step coverage of IEEE 802.11b/a/g/pre-n implementation, design, security, and troubleshooting.

**CIS 162 A+ Computer Hardware Technology 4.0 Units**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture, 48-54 lab*
Presents the structure of modern personal computer architecture including the names, purpose, and characteristics of components such as motherboards, CPUs, RAM, disk drive storage, printers and networks. This course also addresses upgrading computer components, optimizing computer performance, preventative maintenance, safety, and computer hardware troubleshooting. *Prepares the student for CompTIA A+ Hardware Service Technician Certification.*

**CIS 164 4.0 Units**
**A+ Computer Operating Systems Technology**
*Course Advisory: CIS 162*
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture, 48-54 lab*
Presents the purpose and capabilities of computer operating systems, operating system components and utilities. The course emphasizes initial investigation of personal computer operating systems and demonstrates the uses of the operating system and other software for isolating troubles and completing the repair of personal computers. Prepares the student for CompTIA A+ Operating Systems Technologies certification.

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# CIS - Computer Information Science

**CIS 166 Computer Network+ Technology 4.0 Units**

*Non-transferable to UC or CSU*
*Hours: 48-54 lecture, 48-54 lab*

Presents the architecture of computer networks, including the names, purpose, and characteristics of network components such as network interface card (NIC), hubs, routers, cabling and connectors; as well as topologies, protocols and standards. This course also addresses network implementation, network support and troubleshooting. Prepares the student for CompTIA Network+ Computer Network Certification. As a team, in a laboratory environment, the class will assemble and implement a complete network, with a server running a Microsoft server network operation system (NOS) and several computers running the Microsoft Windows XP Professional Operating System. *All of the required cabling will be assembled in the lab by the students under the supervision of the instructor.*

**CIS 168 Computer Security+ Technology 4.0 Units**

*Prerequisite**: CIS 166*
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture, 48-54 lab*

Presents the vulnerability, threats, and risks to data and other computer assets from spyware, Trojan horses, viruses, worms, and other security attacks. This course also addresses the fundamental policies and procedures for maintaining the security of a computer network. *Prepares the student for the Computing Technology Industry Association's (CompTIA) Security+ Certification.*

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# Computer Science

## Associate in Science in Computer Science for Transfer (ADT: A.S.-T)

**Program Description**
Successful completion of this major will assure competence in computer science through programming and basic data structures, providing an adequate background for employment in many computer system and technology areas as well as providing a firm foundation for students planning to pursue a baccalaureate degree in Computer Science and related disciplines.

**Associate in Science for Transfer Degree**
The Associate in Science for Transfer is especially appropriate for students who plan to complete a bachelor's degree in Computer Science at a CSU campus. Students completing an AS-T 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 the AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree also prepares students for Computer Science degree programs at other four-year institutions, but does not come with the same guarantees. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

**To earn the Associate in Science in Computer Science for Transfer, a student must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or
      the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Science in Computer Science for Transfer will be able to:

1. Analyze, document and construct a solution to a problem by applying appropriate computer science concepts and ideas.
2. Effectively communicate solution(s).
3. Demonstrate their ability to program in at least one programming language.

| **REQUIRED COURSES** | **Units** |
|---|---|
| CIS 020 Assembly Programming | 3 |
| CIS 021 Discrete Structures for Computer Science | 3 |
| CIS 022 Introduction to Programming | 3 |
| CIS 023 Data Structures and Algorithms | 3 |
| MATH 020 Analytic Geometry and Calculus I | 4 |
| MATH 021 Analytic Geometry and Calculus II | 4 |
| PHYS 006 Physics for Science and Engineering | 5 |
| One Biology course | 5 |
| **Required Major Total Units** | **30** |

| **Biology (select one course)** | **Units** |
|---|---|
| PHYS 007 Physics for Science and Engineering | 5 |
| CHEM 001 General Chemistry | 5 |

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# CS - Computer Science

**CS 104 Programming in Linux 0.5 Unit**
*Non-transferable to UC or CSU*
*Hours: 24-27 lab*
An initial lab to prepare the student for the intense programming language classes using the Linux operating system. The student will learn how to navigate the Linux operating system as a programmer, install a development environment and utility programs, compile and execute programs, and submit completed assignments for grading.

**CS 105 Programming in Windows 0.5 Unit**
*Non-transferable to UC or CSU*
*Hours: 24-27 lab*
An initial lab to prepare the student for the intense programming language classes using the Windows operating system. The student will learn how to navigate Windows as a programmer, install a development environment and utility programs, compile and execute programs, and submit completed assignments for grading.

**CS 110 C++ 1: Fundamentals 3.0 Units**
*Prerequisite**: CS 104 or CS 105 (may enroll concurrently)*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
An introduction to programming using the C++ language using modern tools in a modern operating system. Course includes hands-on programming of structured algorithms, the study of C++ syntax, and an introduction to structured programming with data definitions and use.

**CS 112 3.0 Units**
**C++ 2: Program Design and Data Structures**
*Prerequisite**: CS 110*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
A further study of the C++ programming language with design principles of object oriented programming and data structures used in process algorithms. Topics include class and pointer instantiation, virtual functions and templates, overloading, linked lists and vectors, stacks and queues, searching and sorting, binary trees, and quality assurance using exception handling.

**CS 114 C++ 3: Project Management 3.0 Units**
*Prerequisite**: CS 112*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
The application of the C++ programming language in the business, scientific, and entertainment industries. Topics include problem analysis and project design, data and code security, group projects, and project completion and publication. Students will delve deeper into industry specific programming techniques that involve code logic, financial modelling, database interaction, encryption, graphs and trees, and interactive graphics.

**CS 120 Python 1: Fundamentals 3.0 Units**
*Prerequisite**: CS 104 or CS 105 (may enroll concurrently)*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
An introduction to Python programming using modern tools in a modern operating system. Course includes hands-on programming of structured algorithms, the study of Python++ syntax, and an introduction to object-oriented programming with class definitions and instantiation.

**CS 122 3.0 Units**
**Python 2: Program Design and Data Structures**
*Prerequisite**: CS 120*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
A further study of the Python programming language with design principles of object oriented programming and data structures used in process algorithms. Topics include class and pointer instantiation, virtual functions and templates, overloading, linked lists and vectors, stacks and queues, searching and sorting, binary trees, and quality assurance using exception handling.

**CS 124 Python 3: Project Management 3.0 Units**
*Prerequisite**: CS 122*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
The application of the Python programming language in the business, scientific, and entertainment industries. Topics include problem analysis and project design, data and code security, group projects, and project completion and publication. Students will delve deeper into industry specific programming techniques that involve code logic, financial modelling, database interaction, encryption, graphs and trees, and interactive graphics.

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# CS - Computer Science

**CS 130 Java 1: Fundamentals** **3.0 Units**

*Prerequisite**: CS 104 or CS 105 (may enroll concurrently)*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*

An introduction to programming using the Java programming language using modern tools in a modern operating system. Course introduces the student to object oriented programming, Java language syntax, data definitions and use, language components and libraries, and interface and Graphical User Interface (GUI) components.

**CS 132** **3.0 Units**

**Java 2: Program Design and Data Structures**

*Prerequisite**: CS 130*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*

A further study of the Java programming language with design principles of object oriented programming and data structures used in process algorithms. Topics include class and pointer instantiation, virtual functions and templates, overloading, linked lists and vectors, stacks and queues, searching and sorting, binary trees, and quality assurance using exception handling.

**CS 134 Java 3: Project Management** **3.0 Units**

*Prerequisite**: CS 132*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*

The application of the Java programming language in the business, scientific, and entertainment industries. Topics include problem analysis and project design, data and code security, group projects, and project completion and publication. Students will delve deeper into industry specific programming techniques that involve code logic, financial modelling, database interaction, encryption, graphs and trees, and interactive graphics.

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## Cosmetology

*Certificate of Achievement*

**Program Description**

The Cosmetology program is approved by the Board of Barbering and Cosmetology. It is designed to prepare the student to take the California State Board of Cosmetology examination for licensure and is subject to its regulations regarding the education and training of cosmetologists. Units include theory and practice in fundamental skills in all phases of beauty culture. There is no reciprocity for transfer students. All students are required to complete all technical, practical, and program requirements at Solano Community College.

The Certificate of Achievement can be obtained by completing the major courses with a minimum grade of C or a P if taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Cosmetology Certificate of Achievement/Associate in Science will be able to:

1. Compare and contrast the skills as required by the California State Board of Barbering and Cosmetology.
2. Interpret and apply cosmetology theories.
3. Completed the mandated clinic laboratory hours, technical subjects, practical operations and business fundamentals.

| **REQUIRED COURSES** | **Units** |
|---|---|
| COSM 100 Cosmetology I | 13.5 |
| COSM 101 Cosmetology II | 13.5 |
| **Required Major Total Units** | **27** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# Cosmetology

## Esthetics

*Certificate of Achievement*

**Program Description**

The Esthetics program is approved by the California Board of Barbering and Cosmetology. It is designed to prepare the student to take their exam with the Board of Barbering and Cosmetology for licensing. This is subject to its rules and regulations regarding the education and training of esthetician. Units including theory and practical in phases of the skin care industry. Students are required to complete all technical, practical, and program requirements at Solano Community College. Upon completion of this program and passing the California state board examination students may find career placement as a skin care specialist.

The certificate of achievement can be obtained by completing the 26-unit major. All courses must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Requirements for sitting for the California state board examination:

- Completed the 10th grade or its equivalent
- Be at least 17 years of age
- Have a valid government issued photographic identification.

For more information; www.barbercosmo.ca.gov.

**Program Outcomes**

Students who complete the Cosmetology Certificate of Achievement/Associate in Science will be able to:

1. Differentiate and employ the skills and techniques required to take the California State Board of Barbering and Cosmetology, Esthetics examinationInterpret and apply cosmetology theories.
2. Apply skin care concepts and theories to a variety of professional settings
3. Demonstrate completion of mandatory clinic laboratory hours and practical operations according to the California State Board of Barbering and Cosmetology

| **REQUIRED COURSES** | **Units** |
|---|---|
| COSM 121 Skin Care I | 13 |
| COSM 122 Skin Care II | 13 |
| **Required Major Total Units** | **26** |

# Cosmetology

## Nail Technology

*Certificate of Achievement*

**Program Description**

The Nail Technology Program is approved by the California Board of Barbering and Cosmetology. The program consists of Cosm 131, an intensive training course and study designed to prepare and qualify students, by completing the required number of hours and operations, to sit for the Board of Barbering and Cosmetology examination for their manicurist license. The one semester program focuses on the theoretical foundation, practical skills, health and safety, business knowledge and professional and ethical skills needed for success in the nail industry. Students are required to complete all technical, practical, and program requirements at Solano Community College.

Upon completion of this program and passing the California State Board examination students will be eligible for career placement as a manicurist/nail technician and practice under the scope of Manicurist per state board rules and regulations.

The certificate of achievement can be obtained by completing the 17-unit major. All courses must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Requirements for sitting for the California state board examination:
- Completion of the 10th grade or its equivalent
- Be at least 17 years of age
- Have a valid government issued photographic identification

For more information; www.barbercosmo.ca.gov

Requirements for sitting for the California state board examination:
- Completed the 10th grade or its equivalent
- Be at least 17 years of age
- Have a valid government issued photographic identification.

For more information; www.barbercosmo.ca.gov.

**Program Outcomes**

Students who complete the Cosmetology Certificate of Achievement/Associate in Science will be able to:

1. Meet minimum requirements to sit for the California State Board of Barber and Cosmetology Manicurist license.
2. Exhibit entry level skills to begin work in a spa or salon as a nail technician.
3. Demonstrate critical thinking skills as related to decision making and problem solving in the workplace.
4. Create and design appropriate professional and educational samples for a career portfolio.
5. Identify and implement measures to ensure public safety and disease prevention Program Requirements

| **REQUIRED COURSES** | **Units** |
|---|---|
| COSM 131 Nail Technology | 14 |
| OCED 070 Occupational Soft Skills | 1.5 |
| OCED 071 Occupational Portfolio Development | 1.5 |
| **Required Major Total Units** | **17** |

# COSM - Cosmetology

**COSM 100 Cosmetology I 13.5 Units**
*Non-transferable to UC or CSU*
*Hours: 64-72 lecture, 456-513 lab*
Fundamental training towards the state m
andated minimum 1,000 hours and operations designed to prepare the student for the California State Board of Cosmetology examination for licensure. A combination of both lecture and laboratory activities introduces the student to theoretical concepts, principles and practice in the beauty industry. Critical thinking skills are developed in the areas of communication, hair care, nail care, record keeping, and business decorum. *Students enrolling in this course must attend the Mandatory Information Sessions. See the schedule of classes for location, dates and times. To qualify for the State Board of Cosmetology examination for a cosmetology license, students must have completed all state mandated 1,000 hours clocked time including the following: designated subject areas of technical instruction, designated subject areas of practical operations, completed the 10th grade or the equivalent, be at least 17 years of age, and current state or federally issued photographic identification. For more information; www.barbercosmo.ca.gov.*

**COSM 100A Introduction to Cosmetology 2.0 Units**
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture*
An introduction to the beauty industry for creative individuals ready to explore career opportunities and develop soft skills within the field of cosmetology.

**COSM 101 Cosmetology II 13.5 Units**
*Prerequisite**: COSM 100*
*Non-transferable to UC or CSU*
*Hours: 64-72 lecture, 456-513 lab*
Continued training towards the state mandated 1,000 hours and operations designed to prepare the student for the California State Board of Cosmetology examination for cosmetology licensing. Focus is on the continued study of the beauty industry. This course provides the students with the opportunity to synthesize and utilize cosmetology knowledge and skills in providing more advanced services for multiple clients.

**COSM 121 Skin Care I 11.0 Units**
*Non-transferable to UC or CSU*
*Hours: 112-126 lecture, 200-225 lab*
Practical and theoretical training towards state mandated minimum hours designed to prepare students for the California State Board of Cosmetology licensing examination in esthetics. A combination of lecture and laboratory activities introduces students to the concepts, principles, and industry practices associated with the skin care industry. Students will learn and perform a range of creative and technical applications, including electrical and chemical facials, eyebrow beautification, hair removal, client health and safety considerations, and applicable laws and regulations.

**COSM 122 Skin Care II 11.0 Units**
*Non-transferable to UC or CSU*
*Hours: 112-126 lecture, 200-225 lab*
This course builds on skills learned in Skin Care I towards preparation for California State Board of Cosmetology licensing examination. Students will apply advanced theoretical and practical techniques in make-up application, massage, facials, hair removal, alternative skin treatments, and health and safety practices. Additionally, students will gain relevant business skills and acumen associated with professional salon or spa environments.
*Field Trip may be required*

**COSM 131 Nail Technology 14.0 Units**
*Non-transferable to UC or CSU*
*Hours: 136-153 lecture, 280-315 lab*
This course provides practical and theoretical training towards state mandated minimum hours designed to prepare students for the California State Board of Cosmetology licensing examination in Nail Technology. A combination of lecture and laboratory activities introduces students to the concepts, principles, and industry practices associated with the manicure, pedicure, and nail technology industry. Students will learn and perform a range of creative and technical applications, including manicures, pedicures, nail wraps, UV and LED gels, nail enhancement and artistry, client health and safety considerations, and applicable laws and regulations.
*Field Trip may be required*

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# COSM - Cosmetology

**COSM 141A Hairstylist Concepts I 8.0 Units**

*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 288-324 lab*

An Introductory exploration of the properties of the hair and scalp, principles of hair design, haircutting, and the finishing techniques of hairstyling. Future stylists will work towards the required 600 hours in preparation for the California Board of Barbering and Cosmetology Hairstylist License exam.

**COSM 141B Hairstylist Concepts II 8.0 Units**

*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 288-324 lab*

An advanced exploration of the properties of the hair and scalp, principles of hair design, haircutting, and the finishing techniques of hairstyling. Future stylists will work towards the required 600 hours in preparation for the California Board of Barbering and Cosmetology Hairstylist License exam.

## Interdisciplinary Studies - Wellness and Self Development

*Associate in Arts*

**Program Description**

This program is designed to equip students with the informative tools to support education in lifelong wellness and self-development. Students will be well acquainted with the vast landscape of wellness, self development, while considering the psychological, biological, developmental, and physical factors involved. They will be able to make more effective decisions about optimizing their own wellness, lifestyle and performance.

The Associate in Arts can be obtained by completing the 18-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete an Associate Degree will be able to:

1. Apply the theories of Wellness and Self Development with attention to personal, professional growth and vocational/life purpose.
2. Apply understanding of personal self and others to gain insight in both a psychological and biological perspective, thereby, enhancing personal wellness and community relationships.
3. Acquire a knowledge base that encourages lifelong learning for students to effectively adapt to a complex and changing society.

| **REQUIRED COURSES** | **Units** |
|---|---|
| 3 units from Wellness Required | 3 |
| 3 units from Self Development Required | 3 |
| 3 units of any Wellness course(s) | 3 |
| 3 units of any Self Development course(s) | 3 |
| 6 units of any Wellness and/or Self Development course(s) | 6 |
| **Required Major Total Units** | **18** |

**WELLNESS**

| **Required (select a minimum of one course)** | **Units** |
|---|---|
| HED 002 Health Education | 3 |
| HED 003 Women's Health Issues | 3 |
| KINE 050A Introduction to Sports Psychology | 3 |
| NUTR 010 Nutrition | 3 |

**Electives**

ATHL Activity* 001, 002A, 002B, 003, 004, 010, 015, 016A, 016B, 022
BIO 004, 005, 016, 018, 020
CDFS 054
DANC 004, 020A, 025A
Dance Activity* 010A, 010B, 011A, 012A, 012B, 013A, 013B, 013C, 014A, 014B, 015A, 016A, 016B
KINE 040A, 045C, 041A, 042A
KINE Activity*: 002A, 002B, 002D, 003A, 003D, 003E, 003X, 003Y, 006E, 006F, 006X, 010A, 011A, 011B, 012A, 019A, 012B, 013X, 021A, 023X, 023Y, 030A, 037A, 037B
NUTR 054

**Maximum 3 units of DANC, KINE, or ATHL activity courses*

**SELF DEVELOPMENT**

| **Required (select a minimum of one course)** | **Units** |
|---|---|
| COUN 005 Career-Life Planning | 3 |
| COUN 007 College Study Techniques | 3 |
| COUN 015 Valuing Diversity | 3 |
| COUN 023 Psychology for Modern Life | 3 |
| PSYC 020 Personal and Social Behavior | 3 |

**Electives**

CDFS 038, 040, 050, 070
COMM 001, 008, 010
COUN 058, 062
HS 001, 053, 054
OCED 070, 071
PSYC 001, 005, 006, 012, 034, 040
SJS 002, 030

***Note: courses may only be used one time within the major***

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Counseling

## Liberal Studies

*Associate in Arts*

**Program Description**

This program is designed to broaden students knowledge, abilities, and skills to create a foundation in the liberal arts. Students gain a broad background in the social and behavioral sciences, humanities, communication, fine and preforming arts, mathematics, and the physical and biological sciences. The students are able to complete lower division major preparation and general education for transfer while simultaneously completing the Liberal Studies Associate in Arts. This program provides opportunities for students who are exploring degree options and are not yet certain about their specific degree goals at the four-year level.

The Associate in Arts can be obtained by completing the 23-25-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes:**

Students completing the Liberal Studies Associate in Arts will be able to:

1. Apply an understanding of how diverse cultural beliefs and social, political and/or historical context impact forms of human expression.
2. Demonstrate quantitative reasoning skills through problem solving.
3. Students will successfully communicate ideas through various forms of expression.

**REQUIRED COURSES** ..... **Units**

COMM 001 Introduction to Public Speaking ..... 3
ENGL 001 College Composition ..... 4
ENGL 002 Critical Thinking and Writing About Literature ..... 4
or
ENGL 004 Critical Thinking and Composition: Language in Context ..... 4
MATH 011 Elementary Statistics ..... 4
or
MATH 012 Mathematical Ideas ..... 3
One course from List A: Social Sciences ..... 3
One course from List B: Health and Science ..... 3-4
One course from List C: Arts and Humanities ..... 3
**Required Major Total Units ..... 23-25**

**List A: Social Sciences (select one course) ..... Units**

ANTH 002 Cultural Anthropology ..... 3
GEOG 002 Cultural Geography ..... 3
PLSC 001 Introduction to American Government and Politics ..... 3
PSYC 001 Introduction to Psychology ..... 3
PSYC 012 Introduction to Gender ..... 3
SOC 001 Introduction to Sociology ..... 3
SOC 002 Social Issues and Problems ..... 3
SOC 040 Sociology of the Family ..... 3
SOC 075 Introduction to Sociology of Sport ..... 3

**List B: Health and Science (select one course) ..... Units**

ASTR 010 General Astronomy ..... 3
BIO 015 Introduction to Biology ..... 4
BIO 016 Introduction to Human Biology ..... 3
KINE 040A Introduction to Kinesiology ..... 3
GEOG 001 Physical Geography ..... 3
GEOL 001 Physical Geology ..... 3
GEOL 005 Geology of California ..... 3

**List C: Arts and Humanities (select one course) ..... Units**

ARTH 001 Introduction to Art History ..... 3
ARTH 011 Western Art, Prehistory through Middle Ages ..... 3
ARTH 012 Western Art, Renaissance to Contemporary ..... 3
ARTH 035 Diverse Art: Race and Representation in the U.S.A. ..... 3
CINA 011 American Cultures in Film ..... 3
HIST 017 History of the United States to 1877 ..... 3
HIST 018 History of the United States from 1865 ..... 3
HIST 028 African American History to 1877 ..... 3
HIST 029 African American History Since 1865 ..... 3
MUSC 008 Music Appreciation ..... 3
MUSC 013 Multicultural Music in America ..... 3
PHIL 003 Introduction to Philosophy ..... 3
PHIL 004 Introduction to Moral Philosophy ..... 3

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

## Transfer Studies with IGETC Emphasis

*Certificate of Achievement*

**Program Description**

This certificate is designed for students who intend to complete university general education requirements prior to transfer to a University of California (UC) or California State University (CSU) campus. Completion of the Intersegmental General Education Transfer Curriculum will permit a student to transfer from a Solano Community College to a UC or CSU campus generally without the need, after transfer, to take additional lower-division, general education courses to satisfy campus general education requirements.

The Certificate of Achievement can be obtained by completing a minimum of 34-37-units from the Intersegmental General Education Transfer Curriculum (IGETC) Pattern. All courses for this certificate must be completed with a minimum grade of C or a P if taken on a Pass/No Pass basis.

**REQUIRED COURSES** ..... **Units (minimum)**
***See Intersegmental General Education Transfer Curriculum (IGETC) Pattern.***
Area 1 ..... 6-9
Area 2 ..... 3
Area 3 ..... 9
Area 4 ..... 9
Area 5 ..... 7
**Total Units.....34-37**

## Transfer Studies with CSU GE Emphasis

*Certificate of Achievement*

**Program Description**

This certificate is designed for students who intend to complete university general education requirements prior to transfer to a California State University (CSU) campus. Completion of the CSU GE-Breadth (California State University General Education – Breadth) will permit a student to transfer from a Solano Community College to a CSU campus generally without the need, after transfer, to take additional lower-division, general education courses to satisfy campus general education requirements.

The Certificate of Achievement can be obtained by completing a minimum of 39-units from the CSU GE-Breadth (California State University General Education-Breadth) Pattern. All courses for this certificate must be completed with a minimum grade of C or a P if taken on a Pass/No Pass basis.

**REQUIRED COURSES** ..... **Units (minimum)**
***See CSU GE-Breadth (California State University General Education-Breadth) Pattern.***
Area A ..... 9
Area B ..... 9
Area C ..... 9
Area D ..... 6
Area E ..... 3
Area F ..... 3
**Total Units.....39**

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# COUN - Counseling

**COUN 005 Career/Life Planning 3.0 Units**
*General Education: SCC: Area E; CSU: Area E*
*Transferable to UC/CSU; UC limitation of credit: 3 units Counseling courses numbered 001-009.*
*Hours: 48-54 lecture*
Helps students demonstrate an understanding and appreciation of the impact and significance of career choices on their social, psychological and physiological experiences throughout the life span. This course is also designed to help students identify their interests, skills, values and personality traits (self-assessment profile), conduct career research and exploration, and learn current job seeking skills. Students will analyze the relationship between themselves, their life choices and the ongoing process of career planning and self-development throughout the life span.

**COUN 006 University Transfer Success 1.0 Unit**
*Transferable to UC/CSU; UC limitation of credit: 3 units Counseling courses numbered 001-009.*
*Hours: 16-18 lecture*
Provides students with a concrete plan for understanding and succeeding in transferring to a four-year college or university. Topics include the following: Major selection; college options; application processes; academic preparation and student education plans.

**COUN 007 Student Life Success 3.0 Units**
*General Education: CSU: Area E*
*Transferable to UC/CSU; UC limitation of credit: 3 units Counseling courses numbered 001-009.*
*Hours: 48-54 lecture*
An exploration of the sociological, physiological, psychological, and intellectual factors that impact student's academic and personal success over a lifetime. Topics include: accepting personal responsibility, discovering self-motivation, mastering self-management, employing interdependence, increasing self-awareness, adopting life-long learning, developing emotional intelligence, and believing in one's self.

**COUN 008 1.0 Unit**
**Math, Engineering and Science Achievement (MESA) Enrichment**
*Transferable to UC/CSU; UC limitation of credit: 3 units Counseling courses numbered 001-009.*
*Hours: 16-18 lecture*
Assists students in acquiring the knowledge and skills necessary to reach their educational goals in mathematics, engineering and science-related fields. Topics to be covered include: strengths assessment; math and science study skills; transfer preparation and career strategies. Students will synthesize and compare and contrast information to draw conclusions on course topics.

**COUN 015 Valuing Diversity 3.0 Units**
*General Education: SCC: Area E, F; IGETC: Area 4; CSU: Area D, SCC Cross-Cultural*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An examination of the complexities of interpersonal relationships among several cultures in our society including self-concept, values, beliefs, communication and lifestyle. This course will invite exploration of individual cultural perception in order to promote respect for differences and to develop a sense of community. *Examination requirements include written essays that demonstrate critical thinking.*

**COUN 023 Psychology for Modern Life 3.0 Units**
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Examines the fundamental concepts of psychology as they relate to daily life. Topics include methods of psychology, stages of personality development, personal relationships, values, communication, motivation, emotions, lifestyle and attitudes. Concepts will be introduced to foster the student's understanding of his/her own personal development. Theories and research will be applied across a diversity of settings.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# COUN - Counseling

**COUN 058 Life Management** **3.0 Units**

*General Education: SCC: Area E; CSU: Area E*
*Transferable to CSU*
*Hours: 48-54 lecture*

A survey of the areas of life which influence decision-making. Students are introduced to areas of human development (emotional, intellectual, physical, and social) which influence decision making. They will analyze and evaluate differences in values, motivation, and goals. Includes introduction to financial, time and stress management, and communication skills. *Requires written papers and problem-solving exercises.*

**COUN 062** **3.0 Units**

**Helping Skills: Creating Alliances & Facilitating Change**

*Transferable to CSU*
*Hours: 48-54 lecture*

An introduction to the basic helping skills that enable the student to build an alliance, effect change and empower others within a multicultural society. A helping model is introduced and helping skills such as attending, active listening, demonstrating empathy, assessment and referral are discussed, role played and applied in an experiential manner to a number of common challenges. In addition, the pertinent legal and ethical guidelines of the professional helping relationship are presented, discussed and applied throughout the course.

**COUN 064** **1.5 Units**

**Human Services and Social Work Seminar**

*Corequisite: COUN 064P*
*Prerequisite**: HSW 001 and PSYC 001*
*Course Advisory: HSW 083*
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture*

Provides the student who is participating in a supervised field experience at an instructor approved community organization, agency, or institution, with an essential academic element to its corequisite course COUN 064P. Students develop insights and skills that facilitate gaining employment in the broad Social Work Human Services and Counseling field with an emphasis on professional development and self-awareness in relation to cultural humility, social justice principles and application of legal and ethical considerations.
(Both COUN 064 and COUN 064P were formerly COUN 064A)

**COUN 064B Practicum II** **4.0 Units**

*Prerequisite**: COUN 064A with a minimum grade of D*
*Course Advisory: HS 055*
*Transferable to CSU*
*Hours: 32-36 lecture, 96-108 lab by arrangement*

The second semester of a two-course sequence in a supervised Human Services Practicum, required for Human Services majors. Students will further develop culturally and ethically competent helping skills as they continue to work in their approved site or work in a new approved site. Students will continue to hone and apply more advanced and educationally informed helping skills. This additional 100 hours in an approved site and its supporting 2 hour weekly seminar will meet the Human Services certificate and Associate degree requirement and will help students further clarify their potential for a longer range educational and career path in Human Services, Social Work or Counseling. Practicum Sites often require students to pass a criminal background check.

**COUN 064P** **2.0 Units**

**Human Services and Social Work Practicum**

*Corequisite: COUN 064*
*Prerequisite**: HSW 001 and PSYC 001*
*Non-transferable to UC or CSU*
*Course Advisory: HSW 083*
*Hours: Student must be working weekly (paid or unpaid) for a licensed business for a total of 120 hours for unpaid work or 150 hours for paid work*

Supervised field experience by instructor and site supervisor in an instructor approved community organization, agency, or institution which allows the student to apply knowledge and learn new skills.
in conjunction with the required co-requisite COUN 064. Student will observe, practice and develop skills that facilitate gaining further understanding of the helping process and theories and enhance employment opportunities in the broad Social Work, Human services and Counseling field. Required experience: 120 hours if unpaid, 150 hours if paid.
(Both COUN 064 and COUN 064P were formerly COUN 064A)

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
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# COUN - Counseling

**COUN 091 Foundations for College Success 0.5 Unit**
*Course Advisory: Possession of all relevant academic records and other test results and transcripts including SAT, ACT, AP and IB*
*Transferable to CSU*
*Hours: 8-9 lecture*
Provides an in-depth introduction to college and the required initial student education plan. It seeks to maximize the new student's successful experience by introducing Solano College's student support services; certificate, associate degree and transfer preparation requirements; and the essential personal motivators for college success. Students will provide their academic records, e.g. high school and college transcripts, assessments and tests such as SAT/ACT/AP/IB which will assist them in creation of the initial student education plan.

**COUN 098 Performance Psychology 3.0 Units**
*General Education: CSU: Area E*
*Transferable to CSU*
*Hours: 48-54 lecture*
Explores the psychological, social and physiological factors influencing optimal performance in life's endeavors including academics, performing arts, sport, and in interpersonal and business relationships. Topics include student evaluation of self care, life balance, confidence, arousal management, motivation, goal attainment, concentration, positive self talk, commitment, uses of imagery and visualization, active listening and demonstrating empathy.

**COUN 102A 0.5 Unit**
**Time Management & Goal Setting**
*Non-transferable to UC or CSU*
*Hours: 8-9 lecture*
Introduces goal setting and time management techniques such as analyzing time usage, prioritizing and developing a schedule to assist students to achieve their educational and career goals. *Other COUN 102 series courses may be taken concurrently. NOTE: Not open for credit to students who have completed COUN 007 with a minimum grade of C.*

**COUN 102B 0.5 Unit**
**Test Taking, Test Anxiety & Memory**
*Non-transferable to UC or CSU*
*Hours: 8-9 lecture*
Introduces test taking, test anxiety and memory concepts and techniques to assist students in achieving their educational and career goals. *Other COUN 102 series courses may be taken concurrently. Note: Not open for credit to students who have completed COUN 007 with a minimum grade of C.*

**COUN 102C Study Systems 0.5 Unit**
*Non-transferable to UC or CSU*
*Hours: 8-9 lecture*
Introduces note-taking, reading and study environment concepts/strategies and identifies attitudes and learning styles to assist students in achieving their educational and career goals. *Other COUN 102 series courses may be taken concurrently. Note: Not open for credit to students who have completed COUN 007 with a minimum grade of C.*

**COUN 103 Disability and Success 3.0 Units**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
College, career, and life preparation course to assist students with disabilities in accessing services and completing their community college and career goals. It includes the SCC Disability Service Program, the College community, community agencies serving people with disabilities, laws and disabilities, coping with a disability, self advocacy, success in the classroom, and a final "Plan for Personal Disability Management." Student will receive a letter grade.

**COUN 310 1.0 Unit**
**Transition to College for Students with Disabilities**
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture*
Transition course for high school seniors who are planning on entering the Community College system and receiving Disability Services. It includes the Student Support and Success Program process of entering into college, the difference between college and high school for students with disabilities. Students will obtain a beginning understanding of how to navigate successfully through the Community College system and Disability Services. *Pass/ No-Pass Only.*

**COUN 510 Assessment/Orientation/Planning 0.0 Unit**
*Non-transferable to UC or CSU*
*Hours: 1 lecture, 2 lab*
Mandatory new student assessment, orientation and initial counseling. Includes reading, writing and mathematics assessments; overview of the programs and services that support student retention and success, time management practices, policies and procedures of Solano College and a preliminary Student Education Plan (SEP).

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# Dance

## Dance

*Associate in Arts*

**Program Description**

This program is designed for students planning to transfer to a four-year university to major or minor in dance. A comprehensive dance education will develop skills required to create, perform, communicate and grasp the essence of dance. These skills are acquired through the study of modern dance, ballet technique, jazz technique, hip-hop technique, ballroom technique, performance, as well as dance production, dance appreciation, choreography composition and music fundamentals.

The Associate of Arts can be obtained upon completion of the 19-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis.

**Program Outcomes**

Students who complete the Dance Associate in Arts will be able to:

1. Demonstrate the skills required to perform at a proficient level in a variety of dance styles including ballet, jazz, hip-hop, and modern dance.
2. Demonstrate an understanding and appreciation for the principal, historical, theoretical, and critical approaches to dance as a performing art.
3. Demonstrate a working knowledge of production techniques, including backstage, and show management.

| **REQUIRED COURSES** | **Units** |
|---|---|
| DANC 004 Dance Appreciation | 3 |
| DANC 020A Dance Choreography - Beginning | 2 |
| DANC 025A Dance Production | 3 |
| DANC 025B Dance Production - Intermediate | 3 |
| 1 course from Music | 3 |
| 5 courses from Beginning Dance | 5 |
| 3 courses from Intermediate Dance | 3 |
| **Required Major Total Units** | **19** |

| **Music (select one course)** | **Units** |
|---|---|
| MUSC 008 Introduction to Music | 3 |
| MUSC 013 Multicultural Music in America | 3 |

| **Beginning Dance (select five courses)** | **Units** |
|---|---|
| DANC 010A Ballroom Dance - Beginning | 1 |
| DANC 011A Hip-Hop Dance - Beginning | 1 |
| DANC 012A Swing Dance - Beginning | 1 |
| DANC 013A Jazz Dance - Beginning | 1 |
| DANC 014A Ballet - Beginning | 1 |
| DANC 015A Contemporary Modern Dance - Beginning | 1 |
| KINE 006E Fundamentals of Yoga | 1 |

| **Intermediate Dance (select three courses)** | **Units** |
|---|---|
| DANC 010B Ballroom Dance - Intermediate | 1 |
| DANC 011B Hip-Hop Dance - Intermediate | 1 |
| DANC 012B Swing Dance - Intermediate | 1 |
| DANC 013B Jazz Dance - Intermediate | 1 |
| DANC 014B Ballet - Intermediate | 1 |
| KINE 006F Intermediate Yoga | 1 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# DANC - Dance

**DANC 004 Dance Appreciation 3.0 Units**
*General Education: SCC: Area D; CSU: Area C1; IGETC: Area 3A, Area 3B*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Explores the development of dance in Western Europe and the U.S. from ancient times to the present. Explores dance as an emerging art form from the Renaissance to the 20th century. Emphasizes the contemporary dance heritage of the United States. *Field Trip may be requested.* (Formerly KINE 004)

**DANC 010A Ballroom Dance - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Introduction to the basic skills and techniques of ballroom dance. This course will also provide a short history, demonstration, and instruction of popular ballroom dances. Following good practice of exercise in dance execution, the students benefit from the activity and the cultural experiences. Dances selected from the following: Cha-Cha, Rumba, Nightclub Two-Step, East & West Coast Swing, Lindy-Hop, Salsa, Tango, Waltz, Samba, Rumba and Merengue. Attention on proper techniques in both lead and follow dance positions, including proper form, footwork, alignment, and correct posture. Music is varied to broaden the experience with different tempo and styles. No prior experience in dance required; partner not required. (Formerly DANC 004J)

**DANC 010B Ballroom Dance - Intermediate 1.0 Unit**
*Prerequisite**: DANC 010A*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Intermediate techniques and styles of ballroom dance. Students will gain improved rhythm, skills, and an increased knowledge of patterns and variations of popular ballroom dances: American Style Waltz, Tango, Cha-Cha, Nightclub Two-Step, Rumba, East Coast Swing, West Coast Swing, Salsa, and Merengue. Increased attention on proper techniques in both lead and follow dance positions including proper form, footwork, alignment, and correct posture. Music is varied to broaden the experience with different tempo and styles. (Formerly DANC 004T)

**DANC 011A Hip-Hop Dance - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Introduction to the fundamentals of beginning hip-hop dance style. Students will learn general patterns as well as the basics of creating their own style and routines. Information describing the history and cultural development of hip-hop as a dance form will be presented. (Formerly DANC 004F)

**DANC 011B Hip-Hop Dance - Intermediate 1.0 Unit**

*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Intermediate level hip-hop dance of choreography, floor patterns with group interactions and projects. A variety of hip- hop dance phrases, intermediate hip-hop terminology and correct body alignment as it applies to hip-hop dance. Students will learn intermediate level choreography in developing their own style and routines. Information describing the history and cultural development of hip-hop as a dance art form will be presented.

**DANC 012A Swing Dance - Beginning 1.0 Unit**
*General Education: SCC: Area D, Local District Requirement,* ***A**;
*CSU: Area C1, E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
An introductory experience of the popular American social dances known as "Swing" and an exploration of the cultural scene that created them. The course surveys historical dance varieties and East Coast/West Coast regional differences as well as the latest trends and styles. Instruction, history, and open dancing will be included in class. Attention is paid to proper technique in both lead and follow dance positions, footwork alignment and posture. (Formerly DANC 004N)

**DANC 012B Swing Dance - Intermediate 1.0 Unit**
*Prerequisite**: DANC 012A*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Gain a higher level of understanding of terminology, music, and history of swing dance and improve their technique around steps, lifts, patterns, and rhythms. A partner is not required. (Formerly DANC 004S)

# DANC - Dance

**DANC 013A Jazz Dance - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Introduces basic jazz techniques, styles, terminology, and history. This course presents lecture information on posture for the dancer, music analysis, understanding basic components of fitness as related to dance, nutrition and injury prevention, and choreography dance notation. The course focuses on sequential development of basic jazz patterns in preparation for future dance composition. (Formerly DANC 004H)

**DANC 013B Jazz Dance - Intermediate 1.0 Unit**
*Prerequisite**: DANC 013A*
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Intermediate-level jazz techniques, styles, and terminology. Students will gain increased knowledge of dance posture and of the muscular functions of the major muscles that affect basic dance movements. Intermediate musical analysis will include 8 count phrasing. The course focuses on sequential development of intermediate jazz dance patterns in preparation for dance composition. (Formerly DANC 004P)

**DANC 013C Jazz Dance - Advanced 1.0 Unit**
*Prerequisite**: DANC 013B*
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
For students who have vocational or avocational interests in dance. Course emphasis is on the skill development and analysis of intermediate-level and advanced-level techniques and patterns. Selected technique syllabi of various dance artists will be presented and studied. Jazz idioms, styles, and the historical and cultural development are included. Participation in the annual dance concert is encouraged. Recommended for Kinesiology and Theatre Arts majors. (Formerly DANC 004D)

**DANC 014A Ballet - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
An introduction to beginning classical ballet dance forms, positions, body alignment, patterns, and barre work. The lesson is conducted with the associated French terminology for all movements and steps. The history of ballet is presented and significant choreographers and ballets are discussed. Students will study proper dance posture, the muscular system as it relates to ballet movement and proper nutritional guidelines for the dancer. Basic first aid and injury prevention and treatment for self-care injuries will also be included in lectures. Students will be required to submit a term project on the history of Ballet. (Formerly DANC 004K)

**DANC 014B Ballet - Intermediate 1.0 Unit**
*Prerequisite**: DANC 014A*
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Exposes students to intermediate ballet skills and will expand technical development for artistic growth. Emphasis is on style and the aspects of interpretation of movement needed for development of the classical dancer leading to studio recital or performance. (Formerly DANC 004M)

**DANC 015A 1.0 Unit**
**Contemporary Modern Dance - Beginning**
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Introduction to basic contemporary modern dance techniques. This class will focus on proper contemporary modern dance alignment, terminology, center work, movement across the floor, composition and self-expression through movement. Students will study posture and alignment for dance, alignment reference points and basic postural muscles. Students will develop physical strength, flexibility, coordination, and an increase in movement memory. Students will study the basic components of fitness as they relate to dance training and basic health guidelines for nutrition and injury care and prevention. Students will explore a variety of common accompaniments for contemporary modern dance. Basic music notation will be presented in preparation for future dance composition. The history of Modern Dance is included. (Formerly DANC 004A)

# DANC - Dance

**DANC 016A Tap Dance - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Introduction to body placement, body balance, rhythm, coordination, musicality, and a repertoire of the traditional tap (foot) techniques. This course presents music, music analysis, understanding basic components of fitness as related to dance, nutrition and basic first aid and injury prevention. History of tap dance as an indigenous American dance form is included.
(Formerly DANC 004B)

**DANC 016B Tap Dance - Intermediate 1.0 Unit**
*Prerequisite**: DANC 016A*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Explore intermediate tap dance step, patterns, combinations, and choreography. Music theory concepts as they apply to the syncopated rhythms of tap dance are included. The history of tap dance as an indigenous American dance form is discussed. Additional topics include technique, music theory, rhythmic patterns, and the historical and cultural significance of tap dance in America. Students will learn to appreciate this dance form via attendance at a dance concert or musical theater performance. (Formerly DANC 004C)

**DANC 020A Dance Choreography 2.0 Units**
*General Education: SCC: Local District Requirement,* ***A**
*Transferable to UC/CSU*
*Hours: 16-18 lecture, 48-54 lab*
An overview of the field of choreography and a study of the elements of dance composition as related to a specific form of dance, such as Jazz, Modern, Ballet, Hip-Hop, Ballroom, and Tap, based on individual student need. Students will choreograph dance studies applying a variety of choreographic approaches and techniques. Students will participate in a class, community and/or college performance. Recommended for Kinesiology, Dance/Theatre, or related arts majors. Dance experience recommended. (Formerly DANC 004G)

**DANC 025A Dance Production 3.0 Units**
*General Education: SCC: Local District Requirement,* ***A**
*Transferable to UC/CSU*
*Hours: 16-18 lecture, 96-108 lab by arrangement*
Designed for dance students interested in public performance. Experiences in student choreography are included in addition to participation in the annual college dance concert. Interval skills exams and written exams serve to evaluate student achievement. Recommended for Theatre Arts Majors. (Formerly DANC 004E)

**DANC 025B 3.0 Units**
**Dance Production - Intermediate**
*Prerequisite**: DANC 025A*
*General Education: SCC: Local District Requirement,* ***A**
*Transferable to UC*
*Hours: 16-18 lecture, 96-108 lab*
An intermediate dance production class designed for students interested in public dance performance. Experiences in student, faculty, and guest choreography are included in addition to participation in the annual college dance concert. Recommended for Dance, Kinesiology, Theatre, or related arts majors.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your* ***counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the* ***Class Finder****. To register for classes log in to* ***MySolano***

# Digital Media Arts

## Graphic Design & Illustration

*Associate in Arts*

**Program Description**

The Graphic Design and Illustration program provides the student with sufficient academic and practical experience for entrance into the job market as a graphic artist, or for study towards the B.A. in college or professional school.

The Associate in Arts can be obtained by completing the 27-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Graphic Design & Illustration Associate in Arts will be able to:

1. Analyze, apply and integrate diverse visual experiences.
2. Develop and articulate with proficiency an understanding of visual and multi-cultural literacy.
3. Work independently and cooperatively to solve creative problems, applying critical thinking skills.

| **REQUIRED COURSES** | **Units** |
|---|---|
| ART 004 Life Drawing | 3 |
| or | |
| ART 015 Intermediate Drawing | 3 |
| ART 006 Design Principles in 2-Dimensions | 3 |
| ART 007 Design-Color | 3 |
| ART 014 Introduction to Drawing | 3 |
| ART 045A Graphic Design I | 3 |
| ART 045B Graphic Design II | 3 |
| ART 045C Typography | 3 |
| ART 046 Illustration I | 3 |
| ART 046C Illustration II | 3 |
| **Required Major Total Units** | **27** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# DMA - Digital Media Art

**DMA 001 History of Visual Media 3.0 Units**
*Course Advisory: ENGL 001*
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture, 72-81 lab*
The history of visual communication in art, graphic design, illustration and popular culture through theory and hands-on activities. The influence of political, social, technological and commercial forces in media will be discussed.

**DMA 009 Introduction to Digital Design 3.0 Units**
*C-ID: ARTS 250*
*Transferable to UC/CSU*
*Hours: 24-27 lecture, 72-81 lab*
Introduction to digital tools used for the theory, practice and production of graphic design. Principles of color, resolution, pixels, vectors, image enhancement, layout, visual hierarchy, and typography. Emphasis on creating content using industry standards, including compliance with print and web specifications, and professional practices for presentation and communication skills. *(Formerly ARTD 044)*

**DMA 010 Graphic Design I 3.0 Units**
*Course Advisory: DMA 009*
*Transferable to CSU*
*Hours: 24-27 lecture, 72-81 lab*
Provides fundamental background for students planning to enter the graphic design field. Instruction in the professional use of design, lettering, and illustration through solution of visual communication problems. *Field trip may be required.* (Formerly ART 045A)

**DMA 011 Graphic Design II 3.0 Units**
*Prerequisite**: DMA 010*
*Transferable to UC/CSU*
*Hours: 24-27 lecture, 72-81 lab*
Continued study of visual communication design, covering both interactive (web/mobile) and print projects. Topics of study include research, design processes and deliverables for a range of interactive and print projects. *Course requires reliable access to internet, Adobe Creative Cloud and a computer that can run the necessary software programs. Software licenses are provided by the school and a limited number of loaner equipment is available.* (Formerly ART 045B)

**DMA 015 Typography 3.0 Units**
*Course Advisory: ENGL 001*
*Transferable to CSU*
*Hours: 24-27 lecture, 72-81 lab*
The history, theory and study of letterforms and type design, using both traditional and digital media. Studies will include typographic characteristics, the relationship between type and image, principles of legibility, visual hierarchy, and grid systems. *Field trip may be required*. (Formerly ART 045C)

**DMA 020 Introduction to Digital Illustration 3.0 Units**
*Transferable to UC/CSU*
*Hours: 24-27 lecture, 72-81 lab*
Students will learn and develop storytelling skills, vital to all aspects of Illustration, study examples of visual narratives, and learn software used to create digital illustrations. Using traditional and digital media, students will learn to create work with meaning and context, enabling them to work successfully in the future when developing work from a creative brief. *Field trip may be required*. (Formerly ART 046)

**DMA 021 3.0 Units**
**Advanced Digital Illustration Techniques**
*Prerequisite**: DMA 020 or equivalent as determined by portfolio review*
*Transferable to UC/CSU*
*Hours: 24-27 lecture, 72-81 lab*
Development of advanced conceptual and narrative skills as they apply to a range of Digital illustration projects. (Formerly ART 046C)

**DMA 031 Introduction to Animation 3.0 Units**
*Course Advisory: DMA 009*
*Transferable to UC/CSU*
*Hours: 24-27 lecture, 72-81 lab*
An introduction to the art of animation, it's history, and evolution. Student projects will facilitate and require the further development of visual literacy, esthetic principles, and critical thinking skills. Interactivity, the study of motion and linear and non-linear narrative structures will be explored. Students will gain an understanding of how animation can be used as an effective tool for storytelling, and will gain experience through group and individual animation projects. Offers an in-depth study of animation and interactive work using industry standard animation software. *When taught online or hybrid, course requires reliable access to internet, Adobe Creative Cloud and a computer that can run the necessary software programs.* (Formerly ART 047)

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
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# DMA - Digital Media Arts

**DMA 032 2D Animation 3.0 Units**
*Prerequisite: DMA 031*
*Course Advisory: DMA 009 and ENGL 001*
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture, 72-81 lab*
An advanced course in the techniques and principles of 2D animation using digital tools, including emphasis on advanced visual effects and developing original visual narratives. *Course requires reliable access to internet, Adobe Creative Cloud and other industry-standard applications, and a computer that can run the necessary software programs.*

**DMA 033 3D Animation and Modeling 3.0 Units**
*Prerequisite: DMA 031*
*Corequisite: DMA 009*
*Transferable to UC/CSU*
*Hours: 24-27 lecture, 72-81 lab*
Introduction to the theory, history and production of 3D animation & modeling using industry standard software. The traditional principles of animation are applied and translated to the computer generated 3D (CG 3D) environment. *Course requires reliable access to internet, industry-standard 3D Modeling software, and a computer that can run the necessary software programs. Solano College provides the software licenses and has equipment available for loan for student use.* (Formerly ARTD 047C)

**DMA 040 Motion Graphics 3.0 Units**
*Course Advisory: DMA 009 and DMA 031*
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture, 72-81 lab*
This introductory course focuses the creation, theory and production of animated two-dimensional graphics for time-based media environments. Students will create motion graphics using digital video and other graphic file formats, including typography, graphic objects, and still images. Various software applications will be used, including Adobe After Effects and other industry-standard software, as needed. *When taught online or hybrid, course requires reliable access to internet, Adobe Creative Cloud and a computer that can run the necessary software programs. Software licenses are provided by the school and loaner equipment is available for students.*

**DMA 060 Principles of User Experience Design 3.0 Units**
*Course Advisory: DMA 009*
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture, 72-81 lab*
An introduction to user experience design. Students will explore user-centered design concepts, principles and practices, and the standard deliverables employed in planning interactive experiences. *Course requires reliable access to internet, Adobe Creative Cloud and a computer that can run the necessary software programs. Software licenses are provided by the school and a limited number of loaner equipment is available.*

**DMA 061 Principles of User Interface Design 3.0 Units**
*Course Advisory: DMA 009*
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture, 72-81 lab*
The exploration of user interface design through exercises and projects. The pace and scope of the class is intended for advanced students looking to expand their skills and portfolio. *When taught online, course requires reliable access to internet, Adobe Creative Cloud and a computer that can run the necessary software programs. Software licenses are provided by the school and loaner equipment is available for students.*

**DMA 062 UI/UX Design 1 3.0 Units**
*Course Advisory: DMA 009*
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture, 72-81 lab*
The exploration of user interface design through exercises and projects. The pace and scope of the class is intended for advanced students looking to expand their skills and portfolio. *When taught online, course requires reliable access to internet, Adobe Creative Cloud and a computer that can run the necessary software programs. Software licenses are provided by the school and loaner equipment is available for students.*

**DMA 063 UI/UX Design 2 3.0 Units**
*Prerequisite: DMA 062*
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture, 72-81 lab*
This is a hands-on intermediate course covering responsive user interface design processes and production, geared towards designers. Students will learn the requirements of responsive design and how to plan and create responsive interfaces. *This course requires an online cloud storage solution, such as Google drive or Dropbox, and a web account (server space) to upload projects.*

# DMA - Digital Media Arts

**ART 065 Exhibition Design 1.0 to 3.0 Units**
*Transferable to CSU*
*Hours: 16-54 lecture*
Provides fundamentals of exhibition design in online and/or physical spaces (galleries, museums, and alternative spaces). Students will explore aesthetic, technical, and conceptual issues, including concept development, selection of display objects, and installation in a gallery and/or creation of a virtual exhibition. (Formerly ART 060) *Field trip may be required*.

**DMA 090 Digital Media Projects 3.0 Units**
*Prerequisite: DMA 011*
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture, 72-81 lab*
This advanced course is designed for students who are preparing for employment in the digital media and design industries. Working independently and in teams, students will use a variety of software and design tools to create projects for real-world clients. Students will also create presentations combining a variety of digital media. *Course requires reliable access to internet, Adobe Creative Cloud and a computer that can run the necessary software programs. Software licenses are provided by the school and a limited number of loaner equipment is available.*

**DMA 091 Digital Media Portfolio 3.0 Units**
*Course Advisory: DMA 009, DMA 010, and DMA 011*
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture, 72-81 lab*
This advanced course is designed for students who are preparing for employment in the digital media industry. Students explore career opportunities along with principles of professional portfolio preparation for digital media. Students have the opportunity to view professional portfolios and present their own portfolios to their class peers. *Course requires reliable access to internet, Adobe Creative Cloud and a computer that can run the necessary software programs. Software licenses are provided by the school and a limited number of laptops and loaner equipment is available.*

**DMA 092 Social Media for Professionals 3.0 Units**
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture, 72-81 lab*
Social media and social networking are powerful forces in today's society and essential for finding work in electronic media. This course teaches how to employ social media tools to create, develop, integrate and leverage social networks. *Course requires reliable access to internet, Adobe Creative Cloud and a computer that can run the necessary software programs. Software licenses are provided by the school and a limited number of loaner equipment is available.*

**DMA 100 Design Bootcamp 1.0 Unit**
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 8-9 lab*
An accelerated, in-depth course that covers the principles, practices and digital production of visual design. Topics covered include visual hierarchy, color, typography, composition, color theory, ideation, and professional practices within the industry. (Formerly ARTD 144A)

**DMA 101 Adobe Illustrator Bootcamp 1.0 Unit**
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 8-9 lab*
Bring your creative ideas to life with Adobe Illustrator, the industry-standard vector graphics software, used by designers and illustrators who want to create digital graphics, logos, illustrations, and original typography. This course is designed to get you up and running with Adobe Illustrator, using step-by-step instruction leading students through the most important tools and concepts in Illustrator. (Formerly ARTD 144B)

**DMA 102 Adobe Photoshop Bootcamp 1.0 Unit**
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 8-9 lab*
Take your Photoshop skills to the next level in this intensive, hands-on course. The focus will be on step-by-step instruction leading students through the most important tools and concepts in Photoshop. At the end of this intensive course, you will understand basic techniques for photo editing, as well as the use of Photoshop in graphic design. (Formerly ARTD 144C)

# DMA - Digital Media Arts

**DMA 103 Portfolio and Publication Bootcamp 1.0 Unit**
*Course Advisory: DMA 009, DMA 100, DMA 101, or DMA 102*
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 8-9 lab*
Build your brand, create a portfolio and learn the skills needed to create publications and marketing materials! This course will guide you through the core features and tools of industry-standard page-layout applications. You'll learn how to create layouts for books and graphic novels, set up a portfolio, and create interactive documents and forms. (Formerly ARTD 144E)

**DMA 110 Digital Illustration Bootcamp 1.0 Unit**
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 8-9 lab*
Learn new digital approaches to illustration in this fun, accessible class. We'll go over the basics of developing your personal style, review techniques, and learn how to conceptualize your ideas using industry-standard digital applications. Whether you're new to digital art or an experienced illustrator, you'll find new ways to make your ideas a reality. (Formerly ARTD 144D)

**DMA 120 Amimation Bootcamp 1.0 Unit**
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 8-9 lab*
An Introduction to the art of animation. In this course, you'll learn the principles behind great animation, and how to apply them to your own work. (Formerly ARTD 144F)

# Drafting

## Drafting and Design Technician

*Certificate of Achievement and Associate in Science*

**Program Description**

This program is designed to provide students with entry level skills in the fields of mechanical, electrical, civil and architectural drafting and/or design.

The Certificate of Achievement can be obtained upon completion of the 31-31.5-unit major. The Associate in Science can be obtained by completing the 31-31.5-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/ No Pass basis.

**Program Outcomes**

Students who complete the Drafting and Design Technician Certificate of Achievement/Associate will be able to:

1. Demonstrate proficiency using industry standard computer aided drafting/design CAD (AutoCAD) software program.
2. Demonstrate proficiency at reading, drawing, and dimensioning industry standard mechanical drawings.
3. Demonstrate proficiency at reading, drawing, and dimensioning industry standard civil drawings.
4. Demonstrate proficiency at reading, drawing, and dimensioning industry standard electronic drawings.
5. Demonstrate proficiency at reading, drawing, and dimensioning industry standard architectural drawings.

| **REQUIRED COURSES** | **Units** |
|---|---|
| DRFT 045 Introduction to Computer-Aided Drafting (CAD) | 4 |
| DRFT 055 Mechanical Drafting - Level I | 3 |
| DRFT 058 Solid Modeling with Solidworks | 3 |
| DRFT 060 Architectural Drafting I | 3 |
| DRFT 075 Electronic Drafting | 3 |
| DRFT 080 Civil Drafting I | 3 |
| DRFT 161 Introduction to REVIT Architecture Software | 3 |
| IT 140 Industrial Materials | 3 |
| IT 151 Vocational Mathematics | 3 |
| IT 171 Making Things 1 - 3D Technology | 1 |
| IT 172 Making Things 2 - 2D Technology | 1 |
| One Course from List A | 1-1.5 |
| **Required Major Total Units** | **31-31.5** |

| **List A: (Select one course)** | **Units** |
|---|---|
| OCED 070 Occupational Soft Skills | 1.5 |
| OCED 090 Occupational Work Experience | 1 |
| OCED 091 General Work Experience | 1 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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## Survey and Civil Drafting Technician

*Certificate of Achievement and Associate in Science*

**Program Description**

This program is designed to provide students with entry-level skills in the fields of Surveying Technician, Civil Drafting Technician, and/or mapping technician.

The Certificate of Achievement can be obtained upon completion of the 26-26.5-unit major. The Associate in Science may be obtained by completing the 26-26.5-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Survey and Civil Drafting Technician Certificate of Achievement/Associate Degree will be able to:

1. Demonstrate proficiency using industry standard computer aided drafting/design CAD (AutoCAD) software program.
2. Demonstrate proficiency at reading, drawing and dimensioning industry standard civil drawings.
3. Demonstrate basic understanding in using industry standard survey equipment including Transit, Theodolite, and Level.

| **REQUIRED COURSES** | **Units** |
|---|---|
| DRFT 045 Introduction to Computer-Aided Drafting (CAD) | 4 |
| DRFT 060 Architectural Drafting I | 3 |
| DRFT 080 Civil Drafting I | 3 |
| DRFT 140 Surveying | 3 |
| DRFT 161 Introduction to REVIT Architecture Software | 3 |
| IT 151 Vocational Mathematics | 3 |
| One course from List A | 3 |
| One course from List B | 1-1.5 |
| One course from List C | 3 |
| **Required Major Total Units** | **26-26.5** |

| **List A: (select one course)** | **Units** |
|---|---|
| GEOL 010 Introduction to Geographic Information Systems | 3 |
| GEOG 010 Introduction to Geographic Information Systems | 3 |

| **List B: (select one course)** | **Units** |
|---|---|
| OCED 070 Occupational Soft Skills | 1.5 |
| OCED 090 Occupational Work Experience | 1 |
| OCED 091 General Work Experience | 1 |

| **List C: (select one course)** | **Units** |
|---|---|
| GEOL 001 Physical Geology | 3 |
| GEOL 005 Geology of California | 3 |
| IT 050 Alternative Energy Technologies | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# Drafting

## Maker Space Technology

*Certificate of Achievement*

**Program Description**

This program is an overview of basic design of manufacturing skills and concepts. Students will learn basic 2D and 3D CAD (Computer Aided Design) skills and how to output those designs using common Maker Space machines and tools such as 3D printers, laser cutters, and CNC (Computer Numeric Controlled) machines. The program also provides a basic overview of manufacturing systems such as motors, wiring and controllers, and the related career opportunities available to individuals with these skills.

The Certificate of Achievement can be obtained upon completion of the 16.5-18-unit major. All courses must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Maker Space Technology Certificate of Achievement will be able to:

1. Demonstrate an understanding of the main principles of Mechatronics.
2. Demonstrate an ability to safely use a 3D printer, laser cutter, CNC machine, basic hand and power tools, and basic electronics.
3. Demonstrate and ability to create a CAD drawing and output to a Maker Space machine.

| **REQUIRED COURSES** | **Units** |
|---|---|
| IT 101 Introduction to Mechatronics | 3 |
| IT 171 Making Things 1 – 3D Technology | 1 |
| IT 172 Making Things 2 - 2D Technology | 1 |
| IT 173 Making Things 3 – Tool Use and Safety | 1 |
| IT 174 Making Things 4 – Basic Electronics | 1 |
| IT 175 Maker Space Technology Lab I | 1.5 |
| IT 176 Maker Space Technology Lab II | 1.5 |
| IT 179 Making Things 5 - Sewing Fundamentals | 1 |
| One Course from List A | 1.5-3 |
| Select Option A or Option B | 4 |
| **Required Major Total Units** | **16.5-18** |

| **List A (select one course)** | **Units** |
|---|---|
| DRFT 151 3D Modeling with Fusion 360 | 1.5 |
| DRFT 058 Solid Modeling with Solidworks | 3 |

| **Select Option A or Option B** | **Units** |
|---|---|
| ***Option A*** | |
| DRFT 045 Introduction to Computer-Aided Drafting (CAD) | 4 |
| ***Option B*** | |
| DRFT 145 AutoCAD Basics | 1 |
| DRFT 079 Blueprint Reading | 3 |

## Computer Aided Drafting (CAD) Technician

*Job-Direct Low Unit Certificate*

| **REQUIRED COURSES** | **Units** |
|---|---|
| DRFT 045 Introduction to Computer-Aided Drafting (CAD) | 4 |
| DRFT 079 Blueprint Reading | 3 |
| One course from List A | 3 |
| One course from List B | 3 |
| **Total Units** | **13** |

| **List A: (select one course)** | **Units** |
|---|---|
| DRFT 058 Solid Modeling with Solidworks | 3 |
| DRFT 161 Introduction to REVIT Architecture Software | 3 |

| **List B: (select one course)** | **Units** |
|---|---|
| DRFT 055 Mechanical Drafting - Level I | 3 |
| DRFT 060 Architectural Drafting I | 3 |
| DRFT 075 Electronic Drafting | 3 |
| DRFT 080 Civil Drafting I | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# DRFT - Drafting

**DRFT 045** **4.0 Units**
**Introduction to Computer-Aided Drafting (CAD)**
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 48-54 lab*
Introduces the drafting student to CAD (AutoCAD) technology and terminology. The student shall complete a series of related drawing problems using a CAD work station. Fundamentals of creating and modifying engineering and architectural related drawings. This course also introduces students to blocks and advanced layering concepts.

**DRFT 055 Mechanical Drafting - Level I** **3.0 Units**
*Prerequisite**: DRFT 058 or DRFT 151 (which student may enroll concurrently) and DRFT 045*
*Transferable to CSU*
*Hours: 32-36 lecture, 48-54 lab*
Techniques and standards of mechanical drafting. Main topics include orthographic drawings, sections, pictorials, threads, fasteners, basic tolerance concepts, ANSI standards and working drawings. Basic mechanical design principles, with a special emphasis on electro-mechanical packaging, are introduced.

**DRFT 058 Solid Modeling with Solidworks** **3.0 Units**
*Course Advisory: knowledge of drafting concepts*
*Transferable to CSU*
*Hours: 32-36 lecture, 48-54 lab*
Teaches the basic concepts and skills necessary to create, view, and manipulate objects and engineering drawings in three dimensional space using Solidworks software. Student will create models in 3D printer, output support documentation and drawings, and incorporate design process concepts in designs.

**DRFT 060 Architectural Drafting I** **3.0 Units**
*Prerequisite**: DRFT 045*
*Transferable to CSU*
*Hours: 32-36 lecture, 48-54 lab*
Basic methods and practices of architectural drafting and design. Students will design a complete set of plans for a single family dwelling in accordance with local building regulations. Course includes an introduction to the Title 24 energy requirements and standards. Recommended for non-majors and drafting majors.

**DRFT 075 Electronic Drafting** **3.0 Units**
*Prerequisite**: DRFT 045*
*Transferable to CSU*
*Hours: 32-36 lecture, 48-54 lab*
Designed for drafters to develop skill in reading and drawing plans related to electronics. Topics include terminology, component identification, schematic symbols, cable drawings, electro-mechanical design from the electronic perspective. Special emphasis is placed on basic printed circuit board design. Students will design through-hole and surface mount printed circuit boards.

**DRFT 079 Blueprint Reading** **3.0 Units**
*Transferable to CSU*
*Hours: 40-45 lecture, 24-27 lab*
Provides an understanding and interpretation of a variety of blueprints. Emphasizes the ability to recognize and identify features of mechanical blueprints and architectural blueprints. Also includes basic development of freehand sketching abilities.

**DRFT 080 Civil Drafting I** **3.0 Units**
*Prerequisite**: DRFT 045*
*Course Advisory: IT 151*
*Transferable to CSU*
*Hours: 32-36 lecture, 48-54 lab*
An introduction to civil drawing with emphasis on land division, breakdown of survey notes, office procedures and related math computations. Includes instruction in a variety of industry standard maps, including subdivision maps, assessors parcel maps and topographic maps.

**DRFT 140 Surveying** **3.0 Units**
*Prerequisite**: DRFT 080*
*Course Advisory: IT 151*
*Hours: 32-36 lecture, 48-54 lab*
Presents the principles and practices of surveying. Topics include measurement of directions, distances and elevations. Students will learn the use and care of electronic survey equipment, transits, tapes and levels and be introduced to topics that include transverse calculations, horizontal and vertical curves, measuring standards and mapping.

# DRFT - Drafting

**DRFT 145 AutoCAD Basics 1.0 Unit**

*Hours: 16-18 lecture, 8-9 lab*

Introduction to AutoCAD (ACAD) software including basic draw and edit commands, file standards, and file printing. Other commands covered include basic layering tools and manager, drawing scales, entity properties and printing. A basic course for anyone wanting to complete simple drawings for work or 2D applications such as a laser cutter. The course is also beneficial to individuals that are required to make minor edits to engineering drawings.

**DRFT 151 3D Modeling with Fusion 360 1.5 Units**

*Hours: 16-18 lecture, 24-27 lab*

Covers the use of Fusion 360's 3-Dimensional modeling and editing capabilities. Students will learn to develop 3D objects and assemblies through sketching, modeling and editing tools, before creating drawings and outputting models for 3D printing. This course is especially designed for students interested in Maker Technology. Fusion 360 is a web based program that is free to students and home based inventors. Companies who use Fusion 360 purchase licenses.

**DRFT 161 3.0 Units**

**Introduction to REVIT Architectural Software**

*Course Advisory: DRFT 060*

*Course Advisory: Understand architectural concepts and terminology as it relates to a single story house*

*Hours: 32-36 lecture, 48-54 lab*

Introduction to REVIT architectural software, basic commands and software workflow. Students will learn to design architectural structures in 3-Dimensions. Students will create building models using 3D design concepts, incorporate schedules, details and sections, add dimensions and produce working drawings and documentation.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Economics

## Associate in Arts in Economics for Transfer (ADT: A.A.-T)

**Program Description**
This program is designed to provide an opportunity for economics majors to achieve an Associate in Arts in Economics while completing the requirements for transfer to a California State University (CSU). This program is designed to introduce to students economic concepts and models, enabling them to analyze to specific situations and predict their outcomes.

The Associate in Arts in Economics for Transfer is appropriate for students who plan to complete a bachelor's degree in Economics at a CSU campus. A baccalaureate degree is recommended preparation for those considering careers in economics. Students completing and Associate in Arts in Economics for Transfer are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus with the Associate in Arts in Economics for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree also prepares students for Economics at other four-year institutions, but does not come with the same guarantees. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

**To earn the Associate in Arts in Economics for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Arts in Economics for Transfer will be able to:

1. Analyze markets recognizing how outcomes may differ as a result of different market structures and changes in the market.
2. Evaluate the economic conditions of an economy, recommending appropriate monetary and fiscal policies.
3. Assess the costs and benefits of free trade and identify the impacts of trade barriers on the outcomes of trade.

| **REQUIRED COURSES** | **Units** |
|---|---|
| ECON 001 Principles of Economics (Macroeconomics) | 3 |
| ECON 002 Principles of Economics (Microeconomics) | 3 |
| MATH 011 Elementary Statistics | 4 |
| MATH 020 Analytic Geometry and Calculus I | 5 |
| Two Courses from List A | 6-9 |
| **Required Major Total Units** | **21-24** |

| **List A: (select two courses)** | **Units** |
|---|---|
| MATH 021 Analytic Geometry and Calculus II | 5 |
| MATH 022 Analytic Geometry and Calculus III | 4 |
| MATH 023 Differential Equations | 4 |
| MATH 040 Introduction to Linear Algebra | 3 |
| CIS 015 Programming in Visual Basic.NET | 3 |
| BUS 018 Legal Environment of Business | 3 |
| ACCT 001 Principles of Accounting - Financial | 4 |
| ACCT 002 Principles of Accounting - Managerial | 4 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# ECON - Economics

**ECON 001** **3.0 Units**

**Principles of Economics (Macroeconomics)**

*C-ID: ECON 202*
*Prerequisite**: MATH 330 or recommendation based on a Multiple Measures Evaluation*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

An introductory course focusing on aggregate economic analysis. Topics include: market systems, aggregate measures of economic activity, macroeconomic equilibrium, money and financial institutions, monetary and fiscal policy, international economics, and economic growth. Online work may be required.

**ECON 002** **3.0 Units**

**Principles of Economics (Microeconomics)**

*C-ID: ECON 201*
*Prerequisite**: MATH 330 or recommendation based on a Multiple Measures Evaluation*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

An introductory course focusing on choices of individual economic decision-makers. Topics include scarcity, specialization and trade, market equilibrium, elasticity, production and cost theory, market structures, factor markets, and market failure. Online work may be required.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Education

## Associate in Arts in Elementary Teacher Education for Transfer (ADT: A.A.-T)

**Program Description**
This program provides a strong liberal studies foundation for students seeking to teach in an elementary school. The coursework is designed to meet the introductory content area subject matter requirements for teaching at the elementary school level.

The Associate in Arts in Elementary Teacher Education for Transfer is designed specifically for transfer, providing the breadth and depth of coursework necessary for students who seek to study liberal arts and education coursework at the CSU in preparation for a career in elementary school teaching. Students completing the AA-T are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts the AA-T in Elementary Teacher Education will be required to complete no more than 60 units after transfer to earn a bachelor's degree. Students should consult with a counselor for more information on university admission and transfer requirements.

**To earn the Associate in Arts in Elementary Teacher Education for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Arts in Elementary Teacher Education for Transfer will be able to:

1. Apply an understanding of child development theories and ethical standards to the development of a personal teaching philosophy.
2. Apply an understanding of how diverse cultural beliefs and social, political, and/or historical context impact form of human expression
3. Demonstrate quantitative reasoning skills and an understanding of the scientific method, consistent with elementary level standards.
4. Critically evaluate strategies and techniques for working with culturally, linguistically and ethnically diverse populations, including children with special education needs.

| **REQUIRED COURSES** | **Units** |
|---|---|
| CDFS 038 Child Growth and Development | 3 |
| EDUC 001 Elementary Teacher Education | 2 |
| OCED 090 Occupational Work Experience | 1 |
| Liberal Arts and Social Science | 27 |
| Science and Math | 15 |
| Select one course from List A | 3 |
| Select one course from List B | 6 |
| **Required Major Total Units** | **57** |

| **LIBERAL ARTS AND SOCIAL SCIENCE** | **Units** |
|---|---|
| COMM 001 Introduction to Public Speaking | 3 |
| ENGL 001 College Composition | 4 |
| ENGL 002 Critical Thinking and Writing About Literature | 4 |
| GEOG 004 World Geography | 3 |
| HIST 002 World History to 1500 | 3 |
| HIST 017 History of the United States to 1877 | 3 |
| PLSC 001 Introduction to American Government and Politics | 3 |
| ENGL 004 Critical Thinking and Composition: Language in Context | 4 |

# Education

**SCIENCE AND MATH ..... Units**
BIO 015 Introduction to Biology ..... 4
GEOL 006 Earth Science ..... 3
GEOL 006L Earth Science Laboratory ..... 1
MATH 055 Mathematical Concepts for Elementary School Teachers – Number Systems ..... 3
PHSC 012 Introduction to Principles of Physical Science ..... 4

**List A: (Select one course) ..... Units**
ARTH 001 Introduction to Art History ..... 3
DANC 004 Dance Appreciation ..... 3
MUSC 008 Music Appreciation ..... 3
THEA 006 Introduction to Theatre ..... 3

**List B: (Select two courses) ..... Units**
CDFS 062 Introduction to Early Childhood Education: Principles and Practices ..... 3
CDFS 053 Teaching in a Diverse Society ..... 3
CDFS 064 Observation and Assessment ..... 3

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# EDUC - Education

**EDUC 001 Elementary Teacher Education 2.0 Units**

*C-ID: EDUC 001 + OCED 090 = EDUC 200*
*Corequisite: One unit of OCED 090*
*Course Advisory: ENGL 001 with a minimum grade of C*
*Transferable to UC/CSU*
*Hours: 32-36 lecture*

Introduction to careers in elementary teacher education. Students will study education from historical, philosophical, and ethical perspectives in K-12. Students will examine pedagogy; California content standards and frameworks; professional performance standards for elementary education; and approaches to teaching diverse learners in contemporary and complex learning environments. Concurrent enrollment in a one-unit OCED 090 class required, with 60 hours fieldwork in an approved elementary education setting.

**EDUC 050 Introduction to Education 3.0 Units**

*Transferable to UC/CSU*
*Hours: 48-54 lecture*

Survey of American education as a social institution. The course is designed for, but not limited to, students who are considering entering the teaching profession.

# Emergency Medical Technician

## Emergency Medical Technician I

*Job-Direct Low Unit Certificate*

**REQUIRED COURSES ..... Units**

EMT 112 Emergency Medical Technician (Basic) ..... 7

**Total Units ..... 7**

*Consult with your **counselor** for guidance on custom course pathway*

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

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# EMT - Emergency Medical Technician

**EMT 112** **7.0 Units**

**Emergency Medical Technician (Basic)**

*Prerequisite**: EMT 128*
*Non-transferable to UC or CSU*
*Hours: 80-90 lecture, 96-108 lab*

Based on state Emergency Medical Services Association regulations, the goal of the EMT (Basic) course is to acquire essential assessment and treatment skills for the delivery of prompt, efficient and safe pre-hospital emergency patient care. Application of these emergency care skills can minimize the risk of permanent disability to an individual. The course has lecture/discussion sessions and skills practice time. Students will attend a combined minimum of twenty-four (24) hours of observation time with an emergency department and an ambulance service. This clinical experience must include a minimum of ten (10) documented patient contacts wherein a patient assessment and other EMT skills are performed. Students successfully completing the course are eligible to take the National Registry Emergency Medical Technician (Basic) Exam as required by the state of California for certification. Certification enables students to qualify for employment with ambulance services, fire or rescue services, search and rescue crews, ski patrol or related pre-hospital emergency care positions. *NOTE: By law, applicants for certification must be at least 18 years of age. Students must present current Basic Life Support for Healthcare Providers course completion card at the mandatory information session in order to enroll in the course. Can be repeated every 2 years.*

**EMT 128 Emergency Medical Responder** **3.0 Units**

*Non-transferable to UC or CSU*
*Hours: 40-45 lecture, 24-27 lab*

Provides the student with the basic emergency care procedures for sick and injured victims as a first responder including but not limited to: cuts, abrasions, broken bones, trauma injuries, burns and respiratory/cardiovascular emergencies.

**EMT 213** **0.5-1.5 Units**

**Emergency Medical Technician (Basic) Refresher**

*Prerequisite**: EMT 112 or previous EMT 213*
*Non-transferable to UC or CSU*
*Hours: 24-27 lab or 16-18 lecture and 24-27 lab*

A review & update of EMT (Basic) course content & focuses on "hands-on" practice of all pre-hospital emergency skills, meeting the educational requirements for EMT renewal. Topics & skills include: legal issues (incl.HIPAA); trauma; triage; use of airway/ventilation equipment with CPR; automated external defibrillation (AED); patient exam (medical & trauma); assessments & treatments for breathing, cardiovacular, neurologic, musculoskeletal, soft tissue injury, childbirth & environmental emergencies. Students apply assesments & treatments during pre-planned patient care skills scenarios to meet EMSA requirements for skills verification. Note: Course may be taken for 0.5 units/24-27 hours or 1.5 units/40-45 hours. *May repeat every 1-2 years, ad infinitum (as stipulated by EMSA regulations for EMT I refresher and renewal).*

# Engineering

## Engineering

*Associate in Science*

**Program Description**

Solano Community College offers a two-year lower division Engineering Program that is designed to prepare students to transfer to a four-year university. The lower division Engineering Core Courses recommended by the Engineering Liaison Committee of the State of California have been coordinated between community colleges and the four-year colleges and universities throughout California. As part of our Engineering Program, an Associate in Science in Engineering is available. Although most engineering students transfer to a four-year university, those with an AS degree can also be employed in entry-level jobs that require two years of college-level science and math.

The Associate in Science can be obtained by completing the 43-46-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for the major must be completed with a minimum grade of C or a grade of P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

1. Demonstrate analytical problem solving skills in Math, Physics, Chemistry and Engineering.
2. Conduct experiments and critically assess the data.
3. Write professional laboratory reports and/or give oral presentations.

| **REQUIRED COURSES** | **Units** |
|---|---|
| CHEM 001 General Chemistry I | 5 |
| MATH 020 Analytic Geometry and Calculus I | 4 |
| MATH 021 Analytic Geometry and Calculus II | 4 |
| MATH 022 Analytic Geometry and Calculus III | 4 |
| MATH 023 Differential Equations | 4 |
| PHYS 006 Physics for Science and Engineering | 5 |
| PHYS 007 Physics for Science and Engineering | 5 |
| Three courses from List A | 10-13 |
| **Required Major Total Units** | **41-44** |

| **List A: (select three courses)** | **Units** |
|---|---|
| CIS 022 Introduction to Programming | 3 |
| DRFT 045 Introduction to Computer-Aided Drafting (CAD) | 4 |
| or | |
| DRFT 058 Solid Modeling with Solidworks | 3 |
| ENGR 017 Introduction to Electrical Engineering | 5 |
| ENGR 030 Engineering Mechanics: Statics | 4 |
| ENGR 045 Properties of Materials | 4 |
| ENGR 026 Mathematics and Engineering Problem Solving Using Matlab | 4 |
| or | |
| MATH 026 Mathematics and Engineering Problem Solving Using Matlab | 4 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Engineering

## Data Science

*Associate in Science*

**Program Description**

The Data Science program is primarily designed to prepare students to transfer to a data science B.S. degree at a four-year university. The prerequisite skills for entering our data science program are limited to high-school level algebra and trigonometry; there are no other specific requirements.

The Associate in Science in Data Science can be obtained by completing the 35-unit major and general education. All courses for the major must be completed with a minimum grade of C or P if taken on a Pass/No Pass basis.

**Program Outcomes**

1. Effectively use modern programming languages, such as Python and R, to visualize and model large varieties and volumes of data.
2. Carry out analyses of large and disparate datasets, and construct models necessary for these analyses.
3. Possess a solid theoretical understanding of classical statistical models and data science techniques.

| **REQUIRED COURSES** | **Units** |
|---|---|
| MATH 011 Elementary Statistics | 4 |
| MATH 020 Analytic Geometry and Calculus I | 4 |
| MATH 021 Analytic Geometry and Calculus II | 4 |
| MATH 022 Analytic Geometry and Calculus III | 4 |
| MATH 040 Introduction to Linear Algebra | 3 |
| ENGR 007 Python Programming for Scientists and Engineers | 4 |
| ENGR 008 Data Science with Python for Scientists and Engineers | 4 |
| ENGR 012 Discrete Math for Scientists and Engineers | 4 |
| One course from Elective Technical Courses | 4 |
| **Required Major Total Units** | **35** |

| **Elective Technical Courses: (select one course)** | **Units** |
|---|---|
| ENGR 010 Machine Learning with Python for Scientists and Engineers | 4 |
| ENGR 011 Deep Learning with Python for Scientists and Engineers | 4 |
| ENGR 014 Introduction to Statistical Programming in R for Scientists and Engineers | 4 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Engineering

## Data Science

*Certificate of Achievement*

**Program Description**

The focus of the Certificate in Data Science is to introduce students to the tools, methods, and conceptual approaches used to support modern data analysis and decision-making in professional and applied research settings. The pre-requisite skills that are required to enter this program are limited to high-school level algebra and trigonometry; there are no other specific requirements.

To earn the Certificate of Achievement, students must complete 24-units within the major with a minimum grade of C or P if taken on a Pass/No Pass basis.

**Program Outcomes**

1. Effectively use modern programming languages, such as Python and R, to visualize and model large varieties and volumes of data.
2. Carry out analyses of large and disparate datasets, and construct models necessary for these analyses.
3. Possess a solid theoretical understanding of classical statistical models and data science techniques.

| **REQUIRED COURSES** | **Units** |
|---|---|
| MATH 011 Elementary Statistics | 4 |
| ENGR 007 Python Programming for Scientists and Engineers | 4 |
| ENGR 008 Data Science with Python for Scientists and Engineers | 4 |
| ENGR 012 Discrete Math for Scientists and Engineers | 4 |
| ENGR 014 Introduction to Statistical Programming in R for Scientists and Engineers | 4 |
| One course from Elective Technical Courses | 4 |
| **Required Major Total Units** | **24** |

| **Elective Technical Courses: (select one course)** | **Units** |
|---|---|
| ENGR 010 Machine Learning with Python for Scientists and Engineers | 4 |
| ENGR 011 Deep Learning with Python for Scientists and Engineers | 4 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# ENGR - Engineering

**ENGR 001 Introduction to Engineering 2.0 Units**
*Course Advisory: ENGL 001*
*C-ID: ENGR 110*
*Transferable to UC/CSU*
*Hours: 32-36 lecture*
A first, non-technical course for engineering students and students considering majoring in engineering. Introduction to different engineering fields, the campus life of engineering students, schedule guidelines, opportunities in engineering, engineers' roles in society, ethics in engineering, and strategies and approaches required to survive math, science, and engineering courses. Develops communication skills pertinent to the engineering profession. *Possible field trips*.

**ENGR 003 3.0 Units**
**Introduction to Ethics in Engineering**
*General Education: SCC: Area D; IGETC: Area 3B, CSU Area C2*
*Transferable to UC/CSU*
*Hours: 16-18 lecture*
Development of techniques of moral analysis and their application to ethical problems encountered by engineers, such as professional employee rights and whistle blowing; environmental issues; ethical aspects of safety, risk and liability; conflicts of interest. Emphasis on developing the capacity for independent ethical analysis of real and hypothetical cases.

**ENGR 007 4.0 Units**
**Python Programming for Scientists and Engineers**
*Course Advisory: CIS 001*
*Prerequisite: MATH 004 or (MATH 002 and MATH 051)*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 48-54 lab*
Introduction to programming for scientists and engineers, utilizing the Python language and environment. Topics covered include object oriented programming, elementary data structures, modules, algorithms, recursion, data abstraction, code style, documentation, debugging techniques, and testing. Also covers the interface between software and the physical world (i.e., sensors).

**ENGR 008 4.0 Units**
**Data Science with Python for Scientists and Engineers**
*Prerequiste: MATH 011 and ENGR 007*
*General Education: CSU: Area B4*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 48-54 lab*
This course covers the three main aspects of data science: inferential thinking, computational thinking, and real-world relevance. Topics include critical concepts and skills in computer programming and statistical inference, and the analysis of real-world datasets, as well as social issues surrounding data analysis such as privacy and design. This course will be taught in Python.

**ENGR 010 4.0 Units**
**Machine Learning for Scientists and Engineers**
*Prerequisite: ENGR 007*
*Course Advisory: MATH 022 and MATH 040*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 48-54 lab*
Machine Learning encompasses the study of algorithms that learn from data. It has been a key component in a number of problem domains including computer vision, natural language processing, computational biology, and robotics. This class will introduce the fundamental concepts and algorithms in machine learning (supervised as well as unsupervised learning), as well as best practices in applying machine learning to practical problems.

**ENGR 011 4.0 Units**
**Deep Learning with Python for Scientists and Engineers**
*Prerequisite: ENGR 007*
*Course Advisory: MATH 022 and MATH 040*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 48-54 lab*
Deep Learning is a branch of Artificial Intelligence (AI) that is based on the architecture of Neural Networks. When the number of hidden layers in a neural network is extended, it becomes a 'Deep Learning' Neural Network. This course will cover the basic concepts and tools of Neural Networks and Deep Learning, including the TensorFlow and Keras interfaces

# ENGR - Engineering

**ENGR 012** **4.0 Units**

**Discrete Mathematics for Scientists and Engineers**

*Prerequisite: MATH 004 or (MATH 002 and MATH 051)*
*General Education: CSU: Area B4*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 48-54 lab*

Discrete mathematics: set theory, logic, Boolean algebra, methods of proof, mathematical induction, number theory, discrete probability, combinatorics, functions, relations, recursion, algorithm efficiencies, graphs, trees.

**ENGR 014** **4.0 Units**

**Introduction to Statistical Programming in R for Scientists and Engineers**

*Course Advisory: MATH 011 and CIS 001*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 48-54 lab*

Advances in computing power have enabled scientists to amass huge amounts of data on everything from genetics to climate science, but there is a need for someone to make sense of this data. In this class we will learn how to perform basic statistical analysis such as writing data frames, creating functions, using variables, statements, and loops and employing statistical concepts such as exploratory data analysis, probabilities, hypothesis tests, regression modeling and data visualization, using the statistical software R.

**ENGR 017** **5.0 Units**

**Introduction to Electrical Engineering**

*C-ID: ENGR 260 and ENGR 260L*
*Prerequisite**: MATH 023 (may enroll concurrently) and PHYS 007*
*Transferable to UC/CSU*
*Hours: 64-72 lecture, 48-54 lab*

A study of basic DC circuit analysis techniques including Kirchhoff's laws, mesh-currents, node-voltages, Thevenin and Norton equivalent circuits, transient and steady-state response of AC passive circuits, power calculations, active circuit elements including operational amplifiers and semiconductor devices. Construction and measurement of electrical circuits using multimeters, oscilloscopes, power supplies, and function generators. Introduction to circuit simulation software.

**ENGR 026** **4.0 Units**

**Mathematics and Engineering Problem Solving Using Matlab**

*C-ID: ENGR 220*
*Course Equivalent: MATH 026*
*Prerequisite**: MATH 021 (may enroll concurrently)*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 48-54 lab*

Covers methodologies for solving mathematics and engineering problems. Students will learn to perform mathematics and engineering computation and visualization using the MATLAB language. Students will write a variety of programs in the MATLAB language.

**ENGR 030 Engineering Mechanics: Statics** **4.0 Units**

*C-ID: ENGR 130*
*Prerequisite**: MATH 021 and PHYS 006*
*General Education: SCC: Area A; IGETC: Area 5A*
*Transferable to UC/CSU*
*Hours: 64-72 lecture*

A study of the principles of statics of particles and rigid bodies as applied to equilibrium problems of two and three-dimensional structures, and the principles of friction, virtual work, and stability of equilibrium.

**ENGR 045 Properties of Materials** **4.0 Units**

*C-ID: ENGR 140 B*
*Prerequisite**: PHYS 006 and CHEM 001*
*General Education: IGETC: Area 5A, 5C; CSU: Area B1, B3*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 48-54 lab*

Covers the application of basic principles of physics and chemistry to the structure and properties of engineering materials. Special emphasis is devoted to the relationship between microstructure and the mechanical properties of metals, polymers and ceramics, and the electrical, magnetic, and optical properties of materials. Possible field trips.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# English

## Associate in Arts in English for Transfer (ADT: A.A.-T)

**Program Description**
This program is for students who intend to complete a bachelor's degree in English at a CSU. Students will take courses in English as well as related fields required for English majors. This program teaches writing, critical thinking, reading, and research skills as they apply to the areas of composition, creative writing, and the analysis of literature. Course work in creative writing is presented in sequenced writing workshops and courses in literary publishing. Course work in literature explores primarily British and American writers through genre, survey, figure, and thematic courses.

Students who complete the Associate in Arts in English for Transfer will be guaranteed admission with junior status to the California State University system, though not to a particular campus or major. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

**To earn the Associate in Arts in English for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Arts in English for Transfer will be able to:

1. Demonstrate an ability to compose and communicate using appropriate rhetorical patterns and writing strategies.
2. Demonstrate college-level reading, writing, and analysis skills.
3. Demonstrate an understanding of the importance and influence of literature's study of the human condition in shaping and reflecting intellectual history and cultural identity.
4. Demonstrate, through study and analysis of literature from a variety of cultural or ethnic backgrounds and sexual orientations, an ability to recognize and examine assumptions about difference and social norms and an understanding of how the experience of reading literature from different perspectives can better prepare one for meaningful participation in a diverse global community.
5. Explore and/or demonstrate, through creative writing and/or analytical techniques, the practice and study of diverse literatures and publishing.

| **REQUIRED COURSES** | **Units** |
|---|---|
| ENGL 002 Critical Thinking and Writing About Literature | 4 |
| Two courses from List A | 6 |
| Two courses from List B | 6 |
| One course from List C | 3 |
| **Required Major Total Units** | **19** |

| **List A: (select two courses)** | **Units** |
|---|---|
| ENGL 030 Survey of American Literature I | 3 |
| ENGL 031 Survey of American Literature II | 3 |
| ENGL 040 Survey of English Literature I | 3 |
| ENGL 041 Survey of English Literature II | 3 |

| **List B: (select two courses)** | **Units** |
|---|---|
| ENGL 006 Creative Writing I | 3 |
| ENGL 007 Creative Writing II | 3 |
| ENGL 010 Creative Writing III | 3 |
| ENGL 018 Introduction to Mythology | 3 |
| ENGL 021 Introduction to Poetry | 3 |
| ENGL 023 Introduction to the Modern Novel | 3 |
| ENGL 024 Introduction to the Short Story | 3 |
| ENGL 036 Multi-Ethnic Literature in America | 3 |
| ENGL 044 Introduction to Shakespeare | 3 |
| ENGL 058 Creative Writing: The Literary Magazine I | 3 |
| Any course from List A not already used | 3 |

| **List C: (select one course)** | **Units** |
|---|---|
| ENGL 059 Creative Writing: The Literary Magazine | 3 |
| HUMN 001 What it Means to be Human | 3 |
| Any course from List A or B not already used | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

## English

*Associate in Arts*

**Program Description**

The Associate in Arts in English provides the academic and practical experience for further education in English at a four-year institution or a career in English or further education or careers in fields related to English. By completing this program, students may complete transfer requirements to the CSU system and UC system as well as public and private universities both in and out of California to pursue a Bachelor's Degree in English, English Literature or Creative Writing. A Bachelor's Degree in English may also include various emphases such as creative writing, composition/rhetoric, education, literature, or linguistics. Students who complete the A.A. in English will also satisfy the requirements for the AA-T in English. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Students will take courses in English as well as in related fields required for English majors. The English program teaches writing, critical thinking, reading, and research skills as they apply to the areas of composition, creative writing, and the analysis of literature. Course work in creative writing is presented in sequenced writing workshops and courses in literary publishing. Course work in literature explores primarily British and American writers through genre, survey, figure, and thematic courses.

The Associate in Arts in English can be obtained by completing the twenty-five (25) units for the major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis

**Program Outcomes**

Students who complete the Associate in Arts in English will be able to:

1. Demonstrate an ability to compose and communicate using appropriate rhetorical patterns and writing strategies.
2. Demonstrate college-level reading, writing, and analytical skills.
3. Demonstrate an understanding of the importance and influence of literature's study of the human condition in shaping and reflecting intellectual history and cultural identity.
4. Demonstrate, through the study and analysis of literature from a variety of cultural or ethnic backgrounds and sexual orientations, an ability to recognize and examine assumptions about difference and social norms and an understanding of how the experience of reading literature from different perspectives can better prepare one for meaningful participation in a diverse global community.
5. Explore and demonstrate through creative writing and/or analytical techniques, the practice and study of diverse literatures and publishing.

# English

**REQUIRED COURSES** ..... **Units**

*The courses are listed in the suggested sequence.*

ENGL 002 Critical Thinking and Writing About Literature ..... 4
Two courses from List A ..... 6
Two courses from List B ..... 6
Two courses from List C. ..... 6
One course from List D ..... 3
**Required Major Total Units.....25**

**List A: (select two courses) ..... Units**

ENGL 030 Survey of American Literature I ..... 3
ENGL 031 Survey of American Literature II ..... 3
ENGL 040 Survey of English Literature I ..... 3
ENGL 041 Survey of English Literature II ..... 3

**List B: (select two courses)..... Units**

ENGL 006 Creative Writing 1 ..... 3
ENGL 021 Introduction to Poetry ..... 3
ENGL 023 Introduction to the Modern Novel ..... 3
ENGL 024 Introduction to the Short Story..... 3
Any course(s) from List A not already used ..... 3

**List C: (select two courses)..... Units**

ENGL 007 Creative Writing II ..... 3
ENGL 010 Creative Writing III ..... 3
ENGL 058 Creative Writing: The Literary Magazine I..... 3
ENGL 044 Introduction to Shakespeare..... 3
ENGL 018 Introduction to Mythology..... 3
ENGL 036 Multi-Ethnic Literature in America..... 3
Any course(s) from List A or B not already used..... 3

**List D: (select one course) ..... Units**

ENGL 049 English Honors ..... 3
ENGL 059 Creative Writing: The Literary Magazine II..... 3
HUMN 001 What it Means to be Human ..... 3
Any course from List A, B, or C not already used..... 3

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# ENGL - English

**ENGL 001 College Composition** **4.0 Units**

*C-ID: ENGL 100*
*Corequisite: LR 010*
*Prerequisite**: Eligibility for college-level composition as determined by multiple measures assessment or other appropriate method.*
*General Education: SCC: Area A; IGETC: Area 1A; CSU: Area A2*
*Transferable to UC/CSU*
*Hours: 64-72 lecture*

A writing course which emphasizes critical reading, expository and argumentative writing, and mastery of library research techniques. It includes instruction and practice in critical thinking, in analytical reading and evaluation of written work, and in the methods of clearly communicating and supporting ideas in organized, coherent essays (min 750 words each). Students are required to write an average of 5000 formal words, including a research paper, based on essays, literature read in class, personal experience, and college-level research.

**ENGL 001E** **5.0 Units**

**College Composition for Non-native English Speakers**

*C-ID: ENGL 100*
*Corequisite: LR 010*
*General Education: SCC: Area A; IGETC: Area 1A; CSU: Area A2*
*Transferable to UC/CSU*
*Hours: 80-90 lecture*

This course engages non-native English students in the reading and writing process with emphasis on college-level reading, critical analysis, research skills, and expository and argumentative composition mindful of purpose and audience while developing an awareness of fundamental principles or cultural competence and linguistic awareness that are inherent in language learning. Students are required to write an average of 5000 formal words, including a research paper, based on essays, literature read in class, personal experience, and college-level research.

**ENGL 001X** **4.0 Units**

**College Composition with Support**

*C-ID: ENGL 100*
*Corequisite: LR 010*
*General Education: SCC: Area A; IGETC: Area 1A; CSU: Area A2*
*Transferable to UC/CSU*
*Hours: 80-90 lecture*

An enhanced writing course which supports students in the practice and improvement of critical reading, expository and argumentative writing. It includes instruction and practice in critical thinking, in analytical reading and evaluation of written work, and in the methods of clearly communicating and supporting ideas in organized, coherent essays (min 750 words each). Students are required to write an average of 5000 formal words, including a research paper, based on essays, literature read in class, personal experience, and college-level research.

**ENGL 002** **4.0 Units**

**Critical Thinking and Writing About Literature**

*C-ID: ENGL 110 and ENGL 120*
*Prerequisite**: ENGL 001, ENGL 001E, or ENGL 001X*
*General Education: SCC: Area B, D; IGETC: Area 1B; CSU: Area A3*
*Transferable to UC/CSU*
*Hours: 64-72 lecture*

The development of critical thinking, reading, and writing skills as they apply to the analysis of fiction, poetry and drama, literary criticism, and related non-fiction from diverse cultural sources and perspectives. Emphasis is on the techniques and principles of effective written argument as they apply to literature.

# ENGL - English

**ENGL 004** **4.0 Units**
**Critical Thinking and Composition: Language in Context**
*C-ID: ENGL 105*
*Prerequisite**: ENGL 001, ENGL 001E, or ENGL 001X*
*General Education: SCC: Area B, D; IGETC: Area 1B; CSU: Area A3*
*Transferable to UC/CSU*
*Hours: 64-72 lecture*
A study of the process of thought and its representation in writing, focusing on the formation of responsible opinions and their presentation in written argument. This course offers practice in the intellectual skills necessary for critical thinking, including observation, analysis, and research; it provides instruction in the organization, arrangement, and stylistic presentation of informative and argumentative writing; it examines the informative and argumentative writing of others and requires students to write their own analytical and argumentative essays.

**ENGL 006 Creative Writing I** **3.0 Units**
*C-ID: ENGL 200*
*Prerequisite**: ENGL 001, ENGL 001E, or ENGL 001X*
*General Education: SCC: Area D; CSU: Area C2*
*Transferable to UC/CSU; UC limitation of credit: 6 units Creative Writing ENGL courses numbered 006-010.*
*Hours: 48-54 lecture*
An introductory study of creative writing techniques in multiple genres. Students develop self-expression through writing and through individual and class criticism of student work.

**ENGL 007 Creative Writing II** **3.0 Units**
*Prerequisite**: ENGL 006*
*General Education: CSU: Area C2*
*Transferable to UC/CSU; UC limitation of credit: 6 units Creative Writing ENGL courses numbered 006-010.*
*Hours: 48-54 lecture*
An intermediate study of creative writing techniques. Students refine skills of self-expression through individual and class criticism of student work. Frequent writing and intense individual and class criticism of student work are requirements.

**ENGL 010 Creative Writing III** **3.0 Units**
*Prerequisite**: ENGL 007*
*Transferable to UC/CSU; UC limitation of credit: 6 units Creative Writing ENGL courses numbered 006-010.*
*Hours: 48-54 lecture*
An advanced study of creative writing skills. Students will be expected to show proficiency in at least one genre (poetry, short story, drama, and novel). Frequent writing, intense individual and class criticism, and the compilation of an individual portfolio of genre-specific creative work are requirements.

**ENGL 018 Introduction to Mythology** **3.0 Units**
*Prerequisite**: ENGL 001, ENGL 001E, or ENGL 001X*
*General Education: SCC: Area D; IGETC: Area 3B; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A survey of the major elements of mythology, its history and development as part of the human experience with a central focus on Western mythology, its origins and development as well as its appearance in and influence on literature.

**ENGL 021 Introduction to Poetry** **3.0 Units**
*Prerequisite**: ENGL 001, ENGL 001E, or ENGL 001X*
*General Education: SCC: Area D; IGETC: Area 3B; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A study of poetry as a form of literature and art. This course examines the elements of poetry, the historical development of the genre, and the major themes treated by poetry.

**ENGL 023 Introduction to the Modern Novel** **3.0 Units**
*Prerequisite**: ENGL 001, ENGL 001E, or ENGL 001X*
*General Education: SCC: Area D; IGETC: Area 3B; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A study of selected novels written during the 20th Century, including the development of the modern novel as a form of literature and the specific techniques and themes employed by novelists.

**ENGL 024 Introduction to the Short Story** **3.0 Units**
*Prerequisite**: ENGL 001, ENGL 001E, or ENGL 001X*
*General Education: SCC: Area D; IGETC: Area 3B; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A study of the short story as a form of literature, examining the historical development of the short story, the literary elements of the genre, and the major themes treated by the short story.

# ENGL - English

**ENGL 030 Survey of American Literature I 3.0 Units**
*C-ID: ENGL 130*
*Prerequisite**: ENGL 001, ENGL 001E, or ENGL 001X*
*General Education: SCC: Area D; IGETC: Area 3B; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A survey of literature written in the United States from the time of early settlement to the end of the Civil War. Through focus on significant works of diverse writers, attention is given to major literary movements and to understanding, comparing, and contrasting the diverse political, religious, social, and cultural elements of literature in the United States.

**ENGL 031 Survey of American Literature II 3.0 Units**
*C-ID: ENGL 135*
*Prerequisite**: ENGL 001, ENGL 001E, or ENGL 001X*
*General Education: SCC: Area D; IGETC: Area 3B; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A survey of literature written in the United States from the end of the Civil War to the present. Through focus on significant works of diverse writers, attention is given to significant literary movements and to understanding, comparing and contrasting the diverse political, religious, social and cultural elements of literature in the United States.

**ENGL 033 Survey of African American Literature 3.0 Units**
*C-ID: ENGL 135*
*Course Equivalent: ETHN 033*
*Prerequisite**: ENGL 001, ENGL 001E, or ENGL 001X*
*General Education: SCC: Area D; IGETC: Area 3B; CSU: Area C2;*
*CSU Ethnic Studies Requirement*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
This course introduces students to a survey of Black Literature, focusing on the early oral tradition, literature of slavery and freedom, the Harlem Renaissance, Modernism, the Black Arts Era, and the contemporary period. Reading selections may consist of poetry, short stories, plays, novels, and nonfiction prose, including essays, letters, political tracts, autobiographies, speeches, and sermons. Students analyze the literature and apply critical theory, along with historical, cultural, and political contexts to explore lived experiences, social struggles, and contributions of Black and African Americans writers in the United States.

**ENGL 036 Multi-Ethnic Literature in America 3.0 Units**
*Course Equivalent: ETHN 036*
*Prerequisite**: ENGL 001, ENGL 001E, or ENGL 001X*
*General Education: SCC: Area D, Area F; IGETC: Area 3B,*
*SCC Cross-Cultural; CSU: Area 3B, SCC Cross-Cultural;*
*CSU Ethnic Studies Requirement*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A survey of Literature by African American, Native American, Asian American, and Latina/oAmerican writers that includes an analysis of complicating factors such as racialization andintersectionality. Reading selections will include novels, plays, short stori es, essays, and poetry, bynative born, immigrant, and undocumented writers. The course will emphasize the cultural,political, and historical context of these works.

**ENGL 040 Survey of English Literature I 3.0 Units**
*C-ID: ENGL 160*
*Prerequisite**: ENGL 001, ENGL 001E, or ENGL 001X*
*General Education: SCC: Area D; IGETC: Area 3B; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A study of major works of British authors from the Anglo-Saxon period through the Eighteenth Century, in poetry, prose, and drama. The course focuses on the development of a literature in English and explores how this literature responds to and shapes its historical and cultural context. It introduces students to the use of critical theory in the analysis of literature.

**ENGL 041 Survey of English Literature II 3.0 Units**
*C-ID: ENGL 165*
*Prerequisite**: ENGL 001, ENGL 001E, or ENGL 001X*
*General Education: SCC: Area D; IGETC: Area 3B; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A study of major works in poetry, prose, and drama from approximately 1798 to the present. The course focuses on the Romantic Movement, the Victorian Age, early 20th Century, modernism, postwar literature, post-colonial literature, and late 20th Century post-modernism. It examines the shifting relationship between literature and its historical and cultural contexts. It introduces students to questions of canon formation and the use of critical theory in the analysis of literature.

# ENGL - English

**ENGL 044 Introduction to Shakespeare 3.0 Units**
*Prerequisite**: ENGL 001, ENGL 001E, or ENGL 001X*
*General Education: SCC: Area D; IGETC: Area 3B; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An introduction to Shakespearean drama and poetry through a study of representative comedies, histories, tragedies, and sonnets. Students will be concerned with dramatic and poetic principles as well as with an understanding of the historical context into which Shakespearean drama fits.

**ENGL 049 English Honors 1.0 to 3.0 Units**
*Prerequisite**: Completion of 24.0 units of college credit with a minimum GPA of 3.3; a minimum of 5.0 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability*
*Transferable to CSU*
*Hours: 48-162 lab by arrangement*
An independent study project which generally results in a critical examination of literature of significant creative and/or analytical writing. Students may take this course up to the maximum number of units over multiple semesters. Three to nine hours by arrangement with instructor and School Dean.

**ENGL 058 3.0 Units**
**Creative Writing: The Literary Magazine I**
*Prerequisite**: ENGL 001, ENGL 001E, or ENGL 001X*
*General Education: SCC: Area D; CSU: Area C2*
*Transferable to CSU*
*Hours: 48-54 lecture*
A study of the contemporary American literary magazine and the practice of producing its own literary magazine, *The Suisun Valley Review:* requesting submissions, reviewing them, selecting material, arranging contents and determining the format. Students may write creatively and make their work available for class commentary, as well as for possible inclusion in the magazine.

**ENGL 059 3.0 Units**
**Creative Writing: The Literary Magazine II**
*Prerequisite**: ENGL 058*
*Transferable to CSU*
*Hours: 48-54 lecture.*
An advanced study of the contemporary American literary magazine and the practice of publishing its own literary magazine, *The Suisun Valley Review*, where the student is expected to assume a lead editorial role. Students may write creatively and make their work available for class commentary, as well as for possible inclusion in the magazine.

**ENGL 310D Advanced English Skills Lab 1.0 Unit**
*Corequisite: ENGL 001*
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture.*
Intensive instruction in advanced reading and writing skills for students who are currently taking ENGL 001. This lab is designed to help ENGL 001 students further hone their craft as writers and readers. Success in this lab will be based on attendance and satisfactory completion of in- class reading and writing assignments. *This is a Pass/No Pass course.*

**ENGL 400 3.0 Units**
**Advanced Technical Writing: Writing in the Scientific Professions**
*Prerequisite**: Admission into the Biomanufacturing Baccalaureate degree program and ENGL 001*
*Transferable to CSU*
*Hours: 48-54 lecture*
Advanced study in technical writing with a focus on writing for the sciences, including memos, forms, resumés, proposals, formal and informal reports, and peer review strategies. Emphasis is on understanding the differences between academic and technical writing, including techniques for organizing, evaluating, and presenting information in the objective style required in modern technical communications, as well as current trends in technology and scientific discourse. Instruction includes writing as a process, from researching a problem to organizing and drafting a document, to testing, revising and editing that document. Students will learn to employ rhetorical strategies for effective visual and document design as well as how to address ethical, cultural, and political issues related to writing in the sciences. Currency in scientific writing and electronic publishing, including peer review, will also be emphasized. This course trains scientists to become more effective, efficient, and confident writers.

# ESL - English as a Second Language

**ESL 074** **6.0 Units**

**Intermediate Integrated ESL Skills**

*Course Advisory**: ESL 334 or recommendation to "level 2" according to the ESL guided placement process*
*Transferable to CSU*
*Hours: 96-108 lecture*

Brings together reading, composition, and grammar skills for intermediate-level ESL students. Students will study vocabulary and comprehension strategies for academic reading, read extensively for fluency, compose paragraph-length compositions, and develop control of a range of sentence structures and verb forms. *Not available to students who have completed both ESL 078 and ESL 079. Not available to students who have completed ESL 074A and/or ESL 074B.*

**ESL 074A** **3.0 Units**

**Intermediate Integrated ESL Skills: Part 1**

*Prerequisite**: ESL 372 and ESL 374; or ESL 334; or ESL 334B; or LOEP Score: 2/3 scores in the range of 50 - 85*
*Transferable to CSU*
*Hours: 48-54 lecture*

The first half of a two-part intermediate integrated skills course which brings together reading, composition, and grammar skills for intermediate-level ESL students. Students will study vocabulary and comprehension strategies for academic reading, read extensively for fluency, compose paragraph-length compositions, and develop control of a range of sentence structures and verb forms. *Not available to students who have completed ESL 074. Not available to students who have completed both ESL 078 and 079.*

**ESL 074B** **3.0 Units**

**Intermediate Integrated ESL Skills Part 2**

*Prerequisite**: ESL 372 and ESL 374; or ESL 334; or ESL 334B; or LOEP Score: 2/3 scores 50-85; or instructor approval*
*Course Advisory: ESL 074A with a minimum grade of C.*
*Transferable to CSU*
*Hours: 48-54 lecture*

The second half of a two-part intermediate integrated skills course which brings together reading, composition, and grammar skills for intermediate-level ESL students. Students will study vocabulary and comprehension strategies for academic reading, read extensively for fluency, compose paragraph-length compositions, and develop control of a range of sentence structures and verb forms. *Not available to students who have completed ESL 074. Not available to students who have completed ESL 078 and ESL 079.*

**ESL 077 Conversation/Pronunciation Skills** **3.0 Units**

*Corequisite: ESL 077L*
*Course Advisory: ESL 373 or recommendation to "level 2" according to the ESL guided placement process*
*Transferable to CSU*
*Hours: 48-54 lecture*

Offers practice in acquiring patterns of American English grammar and pronunciation for the purpose of conversing clearly and completely. Includes practice in critically evaluating semantic and syntactic contrasts among various languages represented by students.

**ESL 077L ESL 077 Lab** **0.5 Units**

*Corequisite: ESL 077*
*Course Advisory: Familiarity with basic reading and writing skills, English alphabet letter names, numbers, and ability to follow directions.*
*Transferable to CSU*
*Hours: 24-27 lab*

Structured listening comprehension and pronunciation practice, basic grammar practice, and elementary word processing practice for students new to the English language who wish to improve their ability to speak and understand clearly. Instruction is individualized. *Materials for the lab may be purchased in the bookstore. This is an Open Entry/Open Exit, Pass/No Pass only course.*

**ESL 094 Advanced ESL Integrated Skills** **6.0 Units**

*Course Advisory: ESL 074 or recommendation to "level 3" according to the ESL guided placement process*
*Transferable to CSU*
*Hours: 96-108 lecture*

Brings together the reading, composition, and grammar skills offered in the advanced, discrete-skills courses ESL 055, ESL 006, and ESL 087. Students will study vocabulary and comprehension strategies for academic reading, read extensively for fluency, compose paragraph- and essay-length compositions, and practice the grammatical structures necessary to performing a variety of rhetorical tasks. Prepares ESL students for the reading and writing demands of 300-level English courses.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# ESL - English as a Second Language

**ESL 094A** **3.0 Units**

**Advanced ESL Integrated Skills Part 1**

*Prerequisite**: ESL 078, ESL 079, ESL 074, ESL 074B, or LEOP scores: at least 2/3 scores over 85, or instructor approval*
*Transferable to CSU*
*Hours: 48-54 lecture*

The first half of a two-semester advanced integrated skills course, bringing together the reading, composition, and grammar skills to prepare non-native English speakers for the reading and writing demands of 300-level English courses. Students will study vocabulary and comprehension strategies for academic reading, read extensively for fluency, compose paragraph- and essay-length compositions, and practice the grammatical structures necessary to performing a variety of rhetorical tasks. *Not available to students who have already taken ESL 094. Not available to students who have already taken ESL 055 and ESL 006.*

**ESL 094B** **3.0 Units**

**Advanced ESL Integrated Skills Part 2**

*Prerequisite**: ESL 074 or both ESL 078 and ESL 079, or both ESL 074A and ESL 074B, or LOEP scores: 2/3 above 85, or instructor approval*
*Course Advisory: ESL 094A with a minimum grade of C*
*Transferable to CSU*
*Hours: 48-54 lecture*

The second half of a two-semester advanced integrated skills course, bringing together the reading, composition, and grammar skills to prepare non-native English speakers for the reading and writing demands of 300-level English courses. Students will study vocabulary and comprehension strategies for academic reading, read extensively for fluency, compose paragraph- and essay-length compositions, and practice the grammatical structures necessary to performing a variety of rhetorical tasks. *Not available to students who have already completed ESL 094. Not available to students who have already taken ESL 055 and ESL 006.*

**ESL 330 ESL Lab** **0.5 to 1.5 Units**

*Course Advisory: Familiarity with basic reading and writing skills: English alphabet letter names, numbers, and ability to follow directions*
*Non-transferable to UC or CSU*
*Hours: 24-81 lab*

Provides structured listening comprehension and pronunciation practice, basic grammar practice, and elementary word processing practice for students new to the English language who wish to improve their own ability to speak and understand clearly. Students may take this course up to the maximum number of units over multiple semesters. *This is an Open Entry/Open Exit, Pass/No Pass only course.*

**ESL 334** **6.0 Units**

**Introductory Integrated ESL Skills: Reading, Writing, and Grammar**

*Course Advisory: Familiarity with basic reading and writing skills, English alphabet letter names, numbers, and ability to follow directions, and ESL recommendation for "Level 1" according to the ESL guided placement process.*
*Non-transferable to UC or CSU*
*Hours: 96-108 lecture.*

Introduces reading, writing, and grammar skills for low-intermediate-level ESL students. Students will study vocabulary and comprehension strategies, read for fluency, compose paragraphs, and develop familiarity with basic English sentence patterns and verb forms. *Not available to students who have completed ESL 334A or 334B.*

**ESL 334A** **3.0 Units**

**Introductory Integrated ESL Skills: Reading, Writing, and Grammar Part 1**

*Prerequisite**: LOEP Assessment test score up to 30.*
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture.*

The first half of a two-semester introductory integrated skills course, introducing the reading, writing and grammar skills for low-intermediate level non-native English speakers. Students will study vocabulary and comprehension strategies, compose paragraphs and develop familiarity with basic English sentence patterns and verb forms. *Not available to students who have completed ESL 334.*

**ESL 334B** **3.0 Units**

**Introductory Integrated ESL Skills: Reading, Writing, and Grammar Part 2**

*Prerequisite**: LOEP Assessment test scores up to 30.*
*Course Advisory: ESL 334A with a minimum grade of C.*
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*

The second half of a two-semester introductory integrated skills course, introducing the reading, writing and grammar skills for low-intermediate level non-native English speakers. Students will study vocabulary and comprehension strategies, compose paragraphs and develop familiarity with basic English sentence patterns and verb forms. Not available to students who have completed ESL 334.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# ESL - English as a Second Language

**ESL 373 ESL Basic Oral Communication Skills 3.0 Units**

*Corequisite: ESL 373L*

*Course Advisory: Familiarity with basic reading and writing skills, English alphabet letter names, numbers, and ability to follow directions and recommendation to "level 1" according to the ESL guided placement process*

*Non-transferable to UC or CSU*

*Hours: 48-54 lecture*

For students still developing fluency in spoken English, this course offers practice in mastering the patterns of spoken American English through study of the English sound system (pronunciation), conversation strategies, related grammar, writing, and spelling at a high-beginning level of proficiency with oral communication and listening as the focus.

**ESL 373L ESL 373 Lab 0.5 Unit**

*Corequisite: ESL 373*

*Non-transferable to UC or CSU*

*Hours: 24-27 lab*

Provides structured listening comprehension and pronunciation practice, basic grammar practice, note taking practice and elementary word processing practice for students new to the English language who wish to improve their ability to speak and understand clearly. Instruction is individualized. Materials for the Lab may be purchased in the Solano College Bookstore.

**ESL 374 Fundamentals of ESL Grammar 3.0 Units**

*Course Advisory: Familiarity with basic reading and writing skills, English alphabet letter names, numbers, and ability to follow directions and ESL Assessment Test Score: Level 3*

*Non-transferable to UC or CSU*

*Hours: 48-54 lecture*

Increase fluency and comprehension in speaking, listening, reading and writing English through the careful, guided study of grammar: Present, future and past verb tenses, singular and plural nouns, constructing simple sentences, special verbs and patterns, idioms to facilitate communication, spelling and study skills for learning a language.

**ESL 534 0.0 Units**

**Introductory Integrated ESL Skills: Reading, Writing, and Grammar**

*Course Advisory: Familiarity with basic reading and writing skills, English alphabet letter names, numbers, and ability to follow directions, and intake assessment results indicating readiness*

*Non-transferable to UC or CSU*

*Hours: 96-108 lecture*

Introduction to reading, writing, and grammar skills for low-intermediate-level ESL students. Students will study vocabulary and comprehension strategies, read for fluency, compose paragraphs, and develop familiarity with basic English sentence patterns and verb forms.

**ESL 534A 0.0 Unit**

**Introductory Integrated ESL Skills: Reading, Writing and Grammar Part 1**

*Course Advisory: Familiarity with basic reading and writing skills, English alphabet letter names, numbers, and ability to follow directions, and ESL test score for "Level 1."*

*Non-transferable to UC or CSU*

*Hours: 48-54 lecture*

The first half of a non-credit, two-semester introductory integrated skills course. This course introduces reading, writing and grammar skills for low-intermediate level English learners. Students will study vocabulary and comprehension strategies, compose paragraphs and develop familiarity with basic English sentence patterns and verb forms.

**ESL 573 Oral Communication Skills 0.0 Units**

*Non-transferable to UC or CSU*

*Hours: 48-54 lecture*

For students developing fluency in spoken English, this course offers practice in mastering the patterns of spoken American English through study of the English sound system (pronunciation); conversation strategies; and related grammar, writing, and spelling at a high-beginning level of proficiency with oral communication and listening as the focus.

# Film and Television

## Film and Television

*Associate in Arts*

**Program Description**

This program is designed to provide fundamental theory and practical experiences required for a career in film and/or television.

The Associate in Arts can be obtained upon completion of the 19–20-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Film and Television Associate in Arts will be able to:

1. Conceive, structure, organize, produce, direct, film and edit to successful completion a short digital film and TV program.
2. Conceive, structure, organize and write film and TV treatments and scripts.
3. Critically evaluate film.
4. View and evaluate films, providing written and verbal critiques.
5. Demonstrate knowledge of film theory and history and TV/radio broadcasting mediums.

| **REQUIRED COURSES** | **Units** |
|---|---|
| CINA 010 The Art of Cinema | 3 |
| CINA 015 Film Production | 4 |
| TV 050 Survey of Broadcasting | 3 |
| TV 055 Beginning Television Production | 3 |
| TV 060 Television and Film Writing | 3 |
| TV 056 Advanced Television Production | 3 |
| or | |
| CINA 016 Film Production | 4 |
| **Required Major Total Units** | **19–20** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# CINA - Cinema

**CINA 010 Introduction to Cinema Studies 3.0 Units**

*General Education: SCC: Area D; IGETC: Area 3A; CSU: Area C1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

Introduction to the close analysis of film texts. Examines the broad questions of form and content, aesthetics and meaning, and history and culture. Explores the diverse possibilities presented by the cinematic art form through an examination of a wide variety of productions, national cinemas, and film movements. Topics include modes of production, narrative and non-narrative forms, visual design, editing, sound, genre, ideology and critical analysis. *Written exams, film screenings, and film discussion are required.*

**CINA 011 American Cultures in Film 3.0 Units**

*Course Advisory: ENGL 001*
*General Education: SCC: Area D. F; IGETC: Area 3A; SCC Cross-Cultural; CSU: Area C1, SCC Cross-Cultural*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

A film studies approach to understanding ethnicity, culture, race, discrimination, gender, class and pluralism in America. Includes screenings of films by and/or about Asian Americans, African-Americans, European Americans, Hispanic Americans, Native Americans, and selected readings, written critical analysis and discussion.

**CINA 015 Film Production 4.0 Units**

*Prerequisite**: CINA 010 (may enroll concurrently)*
*Transferable to UC/CSU; UC limitation of credit: 1 course between CINA 015 and CINA 016*
*Hours: 48-54 lecture, 48-54 lab by arrangement*

An introduction to digital film production equipment, techniques and principles. Includes applications of producing, directing, writing, cinematography, editing and sound recording. Students are required to demonstrate knowledge of the above in student-produced digital films, exercises and written work.

**CINA 016 Film Production 4.0 Units**

*Prerequisite**: CINA 015*
*Transferable to UC/CSU; UC limitation of credit: 1 course between CINA 015 and CINA 016*
*Hours: 48-54 lecture, 48-54 lab*

The application of filmmaking principles and techniques in the production of student produced animated, documentary, educational and/or dramatic films. Emphasis is on developing skill and creativity as a producer/director and refining basic technical competence. A final film project is required.

# TV - Television

**TV 050 Survey of Broadcasting 3.0 Units**
*General Education: SCC: Area E; CSU: Area D*
*Transferable to CSU*
*Hours: 48-54 lecture*
Introduction to radio and television as mediums of mass communication. The history, development and structure of radio and television are studied, and their impact on society and culture. Students are required to demonstrate knowledge of course content through written tests and projects.

**TV 055 Beginning Television Production 3.0 Units**
*Prerequisite**: TV 050 with a minimum grade of D (may enroll concurrently)*
*Transferable to CSU*
*Hours: 48-54 lecture*
Introductory training in the fundamentals of TV studio production, including producing, directing, scriptwriting, performing, production crewing, set graphics and designing. TV production projects are required.

**TV 056 Advanced Television Production 3.0 Units**
*Prerequisite**: TV 055 with a minimum grade of D or previous television production experience*
*Transferable to CSU*
*Hours: 48-54 lecture, 16-18 lab*
Presents the fundamentals of on-location and studio production applied to news, public affairs, and dramatic programs. Students are required to produce, direct, write, and crew on TV programs.

**TV 060 Television and Film Writing 3.0 Units**
*Course Advisory: ENGL 001*
*Transferable to CSU*
*Hours: 48-54 lecture*
Presents the fundamental principles, techniques and formats of writing for film and TV, including analysis and study of professionally written scripts. Scriptwriting assignments for news, public affairs, editorials, public service announcements, commercials, documentaries, and dramas are required.

**TV 061 Advanced Film Writing 3.0 Units**
*Prerequisite**: TV 060 with a minimum grade of D or presentation of a treatment or well structured story line acceptable to the instructor.*
*Transferable to CSU*
*Hours: 48-54 lecture*
Script writing for the motion picture, including dramatic structure, scene and sequence structure, and character development. Each student will complete an original script for a full length motion picture.

**TV 099 Telecommunications Honors 1.0 to 3.0 Units**
*Prerequisite**: Completion of 24.0 units of college credit with a minimum GPA of 3.3; a minimum of 5.0 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability.*
*Transferable to CSU*
*Hours: 48-162 lab by arrangement.*
Allows the advanced student to work independent of the structured classroom environment in areas of special concern during hours set by arrangement with instructor. Students are required to complete their independent study goals as arranged through contract with their instructor at the beginning of the semester. *Students may take this course up to the maximum number of units over multiple semesters.*

# Fire Technology

## Fire Technology

*Certificate of Achievement and Associate in Science*

**Program Description**

This program was established under direction of Solano County fire protection agencies and offers both an intensive training course culminating in a Certificate of Achievement and a well-rounded educational program leading to the Associate in Science Degree. Instructors in this program are experienced members of the fire service field. In addition, a Fire Technology Academy for recently recruited fire service personnel and pre-service students is conducted periodically. The curriculum consists of courses selected from the regular fire technology course offerings.

The Certificate of Achievement can be obtained upon completion of the 30-45-unit major. The Associate in Science can be obtained upon completion of the major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Fire Technology Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate the ability to analyze, appraise and evaluate fire and emergency incidents and identify components of emergency management and fire fighter safety.
2. Identify and comprehend laws, regulations, codes and standards that influence fire department operations, and identify regulatory and advisory organizations that create and mandate them, especially in the areas of fire prevention, building codes and ordinances, and firefighter health and safety.
3. Analyze the causes of fire; determine extinguishing agents and methods; differentiate the stages of the fire and fire development; and compare methods of heat transfer.
4. Identify and describe common types of building construction and conditions associated with structural collapse and fire fighter safety.

| **REQUIRED COURSES** | **Units** |
|---|---|
| FIRE 050 Principles of Emergency Services | 3 |
| FIRE 051 Fire Behavior & Combustion | 3 |
| FIRE 053 Fire Prevention Application | 3 |
| FIRE 054 Fire Protection Systems | 3 |
| FIRE 056 Building Construction as it Relates to the Fire Service | 3 |
| FIRE 101 Principles of Fire and Emergency Services Safety and Survival | 3 |
| 12-27 units from Recommended Electives | 12-27 |
| **Required Major Total Units** | **30-45** |

| **Recommended Electives:** (select 12-27 units) | **Units** |
|---|---|
| FIRE 140 Fire Technology Academy | 24 |
| EMT 112 Emergency Medical Technician (Basic) | 7 |
| EMT 128 Emergency Medical Responder | 3 |
| OCED 090 Occupational Work Experience | 1-8 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Fire Technology

## Firefighter 1 Academy

*Certificate of Achievement*

**Program Description**

This program is intended to provide an educated and trained recruit base for the Solano County and regional fire service departments. Upon completion of this program, the student will earn a Certificate of Achievement for the Solano Community College Fire Academy, a SFM FF1 Certificate, and an EMT Certificate. Upon successfully achieving the SCC FF1 Academy Certificate, the student would be eligible to apply to fire service agencies nation-wide.

**Program Outcomes**

Students who complete the Firefighter 1 Academy Certificate of Achievement will be able to:

1. Perform manipulate skills and pass written tests that meet the National Fire Protection Association Standard 1001 and the California State Fire Marshal standard for Firefighter 1 & 2
2. Demonstrate specific skills, knowledge and abilities in routine and emergency firefighting operations
3. Display the personal and professional attitude and discipline necessary for employment in the firefighting profession

| **REQUIRED COURSES** | **Units** |
|---|---|
| EMT 112 Emergency Medical Technician (Basic) | 7 |
| EMT 128 Emergency Medical Responder | 3 |
| FIRE 050 Principles of Emergency Services | 3 |
| FIRE 101 Principles of Fire and Emergency Services Safety and Survival | 3 |
| FIRE 140 Fire Technology Academy | 24 |
| **Required Major Total Units** | **40** |

*Consult with your **counselor** for guidance on custom course pathway*
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# FIRE - Fire Technology

**FIRE 050 Principles of Emergency Services 3.0 Units**
*Transferable to CSU*
*Hours: 48-54 lecture*
An overview of fire protection; career opportunities in the fire service and related fields; history of fire service and fire protection; fire organization and management; function of public and private protection services; fire departments as part of local government; fire prevention and investigation; building construction; specific fire protection functions; fire and emergency service apparatus and facilities; and introduction to fire protection systems. This is a Fire Technology core course and must be completed with a minimum grade of C in order to receive an Associate Degree or Certificate of Achievement in Fire Technology.

**FIRE 051 Fire Behavior & Combustion 3.0 Units**
*Transferable to CSU*
*Hours: 48-54 lecture*
Provides the student with fundamental information and knowledge of the physical and chemical characteristics of matter, fire, hazardous materials, weapons of mass destruction identification and basic extinguishment theory. This is a Fire Technology core course and must be completed with a minimum grade of C in order to receive an Associate Degree or Certificate of Achievement in Fire Technology. *Field trip may be required*.

**FIRE 053 Fire Prevention Applications 3.0 Units**
*Transferable to CSU*
*Hours: 48-54 lecture*
Fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau. It will also discuss the use of fire codes, identification and correction of fire hazards, and the relationship of fire prevention to fire safety education and detection and suppression systems. This is a Fire Technology core course and must be completed with a minimum grade of C in order to receive an Associate Degree or Certificate of Achievement in Fire Technology.

**FIRE 054 Fire Protection Systems 3.0 Units**
*Transferable to CSU*
*Hours: 48-54 lecture*
Provides information relating to the features of design and operation of fire detection and alarm systems and heat and smoke control systems. It will discuss special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers. This is a Fire Technology core course and must be completed with a minimum grade of C in order to receive an Associate Degree or Certificate of Achievement in Fire Technology.

**FIRE 056 3.0 Units**
**Building Construction as it Relates to the Fire Service**
*Transferable to CSU*
*Hours: 48-54 lecture*
Intended to provide basic information about how buildings are designed and constructed. Through a basic understanding of building construction, the student will acquire an understanding of how buildings will behave under fire conditions. This course will aid in decision making related to fire prevention and fire control with the goal of successful fire ground operations. This course must be completed with a minimum grade of C in order to receive an Associate Degree or Certificate of Achievement in Fire Technology.

**FIRE 101 3.0 Units**
**Principles of Fire and Emergency Services Safety and Survival**
*Course Advisory: ENGL 001*
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
Introduction to basic principles and history related to the firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# FIRE - Fire Technology

**FIRE 103 Introduction to the Fire Services 1.0 Unit**
*Non-transferable to UC or CSU*
*Hours: 48-54 lab*
An activity course for students who are considering a career as a firefighter or first responder. This course includes instruction on various positions and opportunities that are available in the fire service. Students will become familiar with basic facilities, equipment, tools and tasks that are performed by firefighters.

**FIRE 104 1.0 Unit**
**Introduction to Emergency Medical Services (EMS)**
*Non-transferable to UC or CSU*
*Hours: 48-54 lab*
An activity course for students who are considering a career as a firefighter or first responder. The course will include skills in basic first aid, Cardiopulmonary Resuscitation (CPR), bleeding control, and splinting fractures.

**FIRE 105 1.0 Unit**
**Introduction to Earthquake and Disaster Preparedness**
*Non-transferable to UC or CSU*
*Hours: 48-54 lab*
This course will provide information about how students should prepare for, and respond appropriately to earthquakes and other disasters.

**FIRE 140 Fire Technology Academy 24.0 Units**
*Prerequisite**: FIRE 050, FIRE 101, EMT 128 and a passing grade on the CPAT as evidenced by a certificate of completion*
*Non-transferable to UC or CSU*
*Hours: 224-252 lecture, 480-540 lab*
A course containing the contents of State Fire Marshal FF1 (2019) curriculum, I-200, IS-700, IS-800, Fire Control I, Fire Control 3A or 3B, Confined Space Awareness, Low Angle Rope Rescue Operational, Hazardous Materials for the First Responder, Auto Extrication, FF1 certification psychomotor and cognitive testing, State Fire Marshal Certified Wildland courses of S-190, S-130, and CALFIRE 56 Hour Basic Course. Successful students who maintained at least an 70% score on each unit and subject covered in this course may become eligible for certification by the State Fire Marshal as a Firefighter I. Additional fees are associated with this course. Fees may include and are not limited to purchase of uniforms, physical fitness attire, State Fire Marshal certificates, and other related costs.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# Geography

## Associate in Arts in Geography for Transfer (ADT: A.A.-T)

**Program Description**
Solano Community College offers an Associate in Arts in Geography for Transfer to introduce students to principles, theory, and applied methods of spatial analysis in studying both the natural and human environment. The degree provides students with a foundation in the knowledge and skills of the Geography profession and prepares them for upper division university course work. The program in Geography is designed to develop the student's awareness of human environment relationships and changes in the physical and cultural landscape induced by human activities.

The Associate in Arts in Geography for Transfer is especially designed for students who plan to complete a bachelor's degree in Geography or similar major at a CSU campus. Students completing an Associate in Arts in Geography for Transfer are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts the Associate in Arts in Geography for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree.

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

**To earn the Associate in Arts in Geography for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or
      the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Arts in Geography for Transfer will be able to:

1. Use maps and other appropriate geographic tools to interpret and analyze spatial data.
2. Explain the impact of humans on the natural environment.
3. Identify major worldwide spatial political, cultural, economic, and environmental patterns.

| **REQUIRED COURSES** | **Units** |
|---|---|
| GEOG 001 Physical Geography | 3 |
| GEOG 001L Physical Geography Laboratory | 1 |
| GEOG 002 Cultural Geography | 3 |
| GEOG 004 World Geography | 3 |
| GEOG 010 Introduction to Geographic Information Systems | 3 |
| ANTH 002 Cultural Anthropology | 3 |
| GEOL 001 Physical Geology | 3 |
| **Required Major Total Units** | **19** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# GEOG - Geography

**GEOG 001 Physical Geography 3.0 Units**
*C-ID: GEOG 110*
*General Education: SCC: Area C; IGETC: Area 5A; CSU: Area B1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A spatial study of the Earth's dynamic physical systems and processes. Topics include: Earth-sun geometry, weather, climate, water, landforms, soil, and the biosphere. Emphasis is on the interrelationships among environmental and human systems and processes and their resulting patterns and distributions. Tools of geographic inquiry are also briefly covered; they may include: maps, remote sensing, Geographic Information Systems (GIS) and Global Positioning Systems (GPS). *Field trips may be required*.

**GEOG 001L Physical Geography Laboratory 1.0 Units**
*C-ID: GEOG 111*
*Prerequisite**: GEOG 001 (may enroll concurrently)*
*General Education: IGETC: Area 5C; CSU: Area B3*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Designed to provide supplemental exercises in topics covered in Physical Geography lecture. Lab experience will include map analysis and interpretation, weather prognostication, landform processes and evolution, tectonics, biogeography, and habitat analysis. One or more field trips are required and may occur outside of class time.

**GEOG 002 Cultural Geography 3.0 Units**
*C-ID: GEOG 120*
*General Education: SCC: Area C, E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Topics include the identification of rocks and minerals as hand specimen and the study of geologic maps, landforms, and structures. Field trips will be taken to areas of geologic interest. Laboratory projects, written assignments and reports, and examinations will be used to evaluate student success.

**GEOG 004 World Geography 3.0 Units**
*C-ID: GEOG 125*
*General Education: SCC: Area C, E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Survey of the world's culture regions and nations as interpreted by geographers, including physical, cultural, and economic features. Emphasis on spatial and historical influences on population growth, transportation networks, and natural environments. Identification and importance of the significant features of regions. *A Field trip may be required with the course. However, if a student cannot attend the trip, there will be an optional research paper assignment.*

**GEOG 006 California Geography 3.0 Units**
*C-ID: GEOG 140*
*General Education: SCC: Area C, E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A thematic approach to the state's issues, processes and topics relevant to geography including climate, landforms, natural vegetation, water resources, cultural landscape, ethnic diversity, urban and agricultural regions, and the economy. This course explores the physical and human landscapes that have evolved as a result of the human-environment interface. *A field trip is required.*

**GEOG 010 3.0 Units**
**Introduction to Geographic Information Systems**
*C-ID: GEOG 155*
*Course Advisory: Basic computer literacy*
*General Education: SCC: Area C; CSU: Area B1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Identification and acquisition of GIS data. Assessment of vector and raster systems, scale, resolution, map projection, coordinate systems, georeferencing and Global Positioning Systems (GPS). Spatial analysis and modeling with GIS. *Same course as GEOL 010. Not open to students who have completed GEOL 010. Field trips may be required.*

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# Geology

## DEGREES

The Geology Department introduces students to the methods of science as well as the fundamentals of geology. Geology is the study of Earth – its interior and its exterior surface, the rocks and other materials that are around us and the processes (i.e., water flow, changes over time) that have resulted in the formation of those materials. Courses focus on physical geology, earth sciences, geology of California and geographic information systems. The courses do not lead to a certificate, degree or transfer agreement in themselves. However, these courses may apply to other programs and may also be used toward lower division general education.

# GEOL - Geology

**GEOL 001 Physical Geology 3.0 Units**
*C-ID: GEOL 100*
*General Education: SCC: Area C; IGETC: Area 5A; CSU: Area B1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An introduction to the principles of geology with emphasis on Earth processes. This course focuses on the internal structure and origin of the Earth and the processes that change and shape it. *Online work may be required.*

**GEOL 002 Geology Laboratory 1.0 Unit**
*C-ID: GEOL 100L*
*Prerequisite**: GEOL 001 or GEOL 005 (may enroll in either course concurrently).*
*General Education: IGETC: Area 5C; CSU: Area B3*
*Transferable to UC/CSU*
*Hours: 48-54 lab.*
Topics include the identification of rocks and minerals as hand specimen and the study of geologic maps, landforms, and structures. *Field trips will be taken to areas of geologic interest. Laboratory projects, written assignments and reports, and examinations will be used to evaluate student success.*

**GEOL 005 Geology of California 3.0 Units**
*C-ID: GEOL 200*
*Course Advisory: GEOL 001*
*General Education: SCC: Area C; IGETC: Area 5A; CSU: Area B1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An introduction to the geology of California, including tectonic processes, geologic structures, physiographic provinces, local rocks and minerals, landforms, natural resources, geologic history, and natural hazards in the state. *Field trip will be taken to areas of geologic interest and a field trip report will be required. If the student cannot attend the trip, they will have make-up work.*

**GEOL 006 Earth Science 3.0 Units**
*C-ID: GEOL 120*
*C-ID: GEOL 006 + GEOL 006L = GEOL 120L*
*General Education: SCC: Area C; IGETC: Area 5A; CSU: Area B1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An introduction to the essentials of Earth Science including the geosphere, atmosphere, hydrosphere, and solar system. This course focuses on the interactions between physical and chemical systems of the Earth such as the tectonic cycle, rock cycle, hydrologic cycle, weather and climate.

**GEOL 006L Earth Science Laboratory 1.0 Unit**
*C-ID: GEOL 006 + GEOL 006L = GEOL 120L*
*Prerequisite**: GEOL 006 (may enroll concurrently)*
*General Education: IGETC: Area 5C; CSU: Area B3*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
The laboratory component to Earth Science including the geosphere, atmosphere, hydrosphere, and solar system. This course focuses on the physical and chemical systems of the Earth such as the tectonic cycle, rock cycle, hydrologic cycle, weather, and climate.

**GEOL 010 3.0 Units**
**Introduction to Geographic Information Systems**
*C-ID: GEOG 155*
*General Education: SCC: Area C; CSU: Area B1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Identification and acquisition of GIS data. Assessment of vector and raster systems, scale, resolution, map projection, coordinate systems, georeferencing and Global Positioning Systems (GPS). Spatial analysis and modeling with GIS. *Same course as GEOG 010. Not open to students who have completed GEOG 010.*

**GEOL 049 Geology Honors 1.0 to 3.0 Units**
*Prerequisite**: Completion of 24.0 units of college credit with a minimum GPA of 3.0; completion with a minimum grade of B in GEOL 001, GEOL 005, or GEOL 010; an ability to work independently; and permission of the School Dean based on instructor availability*
*Transferable to CSU*
*Hours: 48-162 lab by arrangement*
Requires students to engage in an independent student project. The project may be a laboratory or field study or a library study that leads to a thesis. In all cases, the final written product should show integration and synthesis of ideas. This project requires the approval of a faculty member sponsor. Students may take this course up to the maximum number of units over multiple semesters.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# Health Education

## Associate in Science in Public Health Science for Transfer (ADT: A.S.-T)

**Program Description**

The Associate in Science in Public Health Science for Transfer degree prepares leaders who promote community health, prevent disease, and improve environmental conditions in which people can be healthy. The degree is designed to provide students with a solid foundation in public health and the health sciences, as well as public health theories, concepts, and applications to succeed in upper division coursework in public health and health-related majors at a four-year college or university. Successful completion of this program guarantees priority admission to the California State University (CSU) system (though not to a particular campus or major). Students that are accepted into a public health major at the CSU will have to complete no more than 60 units to obtain their degree. The AS-T degree in Public Health Science is designed to prepare those students interested in majoring in biology, health science, or public health. It is also designed to prepare students that are considering careers in health sciences, healthcare, medicine, and similar research fields for transfer.

**To earn the Associate in Science in Public Health Science for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or
      the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**

Students who complete the Associate in Arts in Geography for Transfer will be able to:

1. Define important foundational concepts in community/public health
2. Identify different public health disciplines, professions, and organizations, and explain how each contributes to the field of public health.
3. Outline strategies for prevention, detection, and control of infectious and chronic disease.
4. Analyze current public health issues and describe how they affect societal well-being among specific populations of age, sex, ethnicity, minority, education, and socioeconomic status.

| **REQUIRED COURSES** | **Units** |
|---|---|
| BIO 015 Introduction to Biology | 4 |
| HED 001 Introduction to Public Health | 3 |
| HED 002 Health Education | 3 |
| MATH 011 Elementary Statistics | 4 |
| BIO 004 Human Anatomy | 5 |
| BIO 005 Human Physiology | 5 |
| PSYC 001 Introduction to Psychology | 3 |

| **Chemistry (select one course)** | **Units** |
|---|---|
| CHEM 001 General Chemistry I | 5 |
| CHEM 010 Intermediate Chemistry | 4 |

| **List A: (select one course)** | **Units** |
|---|---|
| CDFS 038 Child Growth and Development | 3 |
| ECON 001 Principles of Economics (Macroeconomics) | 3 |
| ECON 002 Principles of Economics (Microeconomics) | 3 |
| HED 003 Women's Health Issues | 3 |
| KINE 045C Advanced First Aid and Emergency Care | 3 |
| NUTR 010 Nutrition | 3 |
| PSYC 030 Introduction to Social Psychology | 3 |
| SOC 001 Introduction to Sociology | 3 |
| **Required Major Total Units** | **34-35** |

# HED - Health Education

**HED 001 Introduction to Public Health 3.0 Units**

*C-ID: PHS 101*
*General Education: SCC: Area E; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

An exploration of the basic concepts and terminologies of public health. Topics include the study of infectious and chronic disease; prevention and control of diseases in the community including the analysis of the social determinants of health and strategies for eliminating disease, illness and health disparities among various populations; community organizing and health promotion programming; environmental health and safety; global health; history; healthcare policy and management; and the functions of various public health professions. Additional topics include the intersection of race and gender as they relate to public health.

**HED 002 Health Education 3.0 Units**

*C-ID: PHS 100*
*General Education: SCC: Local District Requirement; CSU: Area E*
*Transferable to UC/CSU; UC limitation of credit: 1 course between HED 002 and HED 003*
*Hours: 48-54 lecture*

A multifaceted exploration of major health issues and behaviors in the various dimensions of health. Emphasis is placed on individual responsibility for personal health and the promotion of informed, positive health behaviors. Topics include nutrition, exercise, weight control, mental health, stress management, violence, substance abuse, reproductive health, disease prevention, aging, healthcare, environmental hazards, and safety. Additional topics include the intersection of race and gender as they relate to health.

**HED 003 Women's Health Issues 3.0 Units**

*General Education: SCC: Local District Requirement; CSU: Area E*
*Transferable to UC/CSU; UC limitation of credit: 1 course between HED 002 and HED 003*
*Hours: 48-54 lecture*

A study of health issues that are unique to women with a focus on women's health maintenance and care, and the development of skills and acquisitions of knowledge necessary to make informed choices in health matters of concern to women.

# History

## Associate in Arts in History for Transfer (ADT: A.A.-T)

**Program Description**
This program emphasizes the development of various societies through a chronological study of the major social, political, economic, and cultural forces. Students in this program may study a variety of historical fields including United States, World, Western Civilization, African-American, Mexican-American, California and Women's History.

The Associate in Arts in History for Transfer is especially designed for students who plan to complete a bachelor's degree in History at a CSU campus. Students completing the Associate in Arts in History for Transfer are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts the Associate in Arts in History for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree.

**To earn the Associate in Arts in History for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete an Associate in Arts in History for Transfer will be able to:

1. Recognize and define a variety of major economic, social, cultural and political events and trends in history.
2. Analyze the significant causal factors that contributed to the shaping of a variety of historical movements, events and trends.
3. Interrogate and analyze primary historical evidence, including textual documents, artifacts and visual images.

| **REQUIRED COURSES** | **Units** |
|---|---|
| HIST 017 History of the United States to 1877 | 3 |
| HIST 018 History of the United States from 1865 | 3 |
| HIST 002 World History to 1500 | 3 |
| or | |
| HIST 004 History of Western Civilization to 1500 | 3 |
| HIST 003 Modern World History | 3 |
| or | |
| HIST 005 History of Western Civilization Since 1500 | 3 |
| One course from List A or B | 3 |
| One course from List A, B or C | 3 |
| **Required Major Total Units** | **18** |

| **List A: World History (if not already used)** | **Units** |
|---|---|
| HIST 002 World History to 1500 | 3 |
| HIST 003 Modern World History | 3 |

| **List B: Ethnicity and Gender Studies** | **Units** |
|---|---|
| HIST 028 African American History to 1877 | 3 |
| HIST 029 African American History Since 1865 | 3 |
| HIST 031 Mexican American/Chicano History | 3 |
| HIST 037 Women in American History | 3 |

| **List C: United States** | **Units** |
|---|---|
| (any course from this or other lists not already used) | |
| HIST 010 California History | 3 |
| HIST 004 History of Western Civilization to 1500 | 3 |
| HIST 005 History of Western Civilization Since 1500 | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# HIST - History

**HIST 002 World History to 1500 3.0 Units**
*C-ID: HIST 150*
*General Education: SCC: Area D; IGETC: Area 3B, 4; CSU: Area C2, D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An integrated study of world civilizations from their beginnings to 1500. Emphasis will be placed on a critical assessment of the cultural achievements, belief systems and economic, political and social structures of the major global civilizations. We will also study the interconnections that linked these cultures into an integrated world system during the early modern period.

**HIST 003 World History Since 1500 3.0 Units**
*C-ID: HIST 160*
*General Education: SCC: Area D; IGETC: Area 3B, 4; CSU: Area C2, D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An integrated study of modern global history since 1500. Emphasis will be placed on the emergence of an interconnected world system in the modern era and the impact of that system on societies and cultures around the globe. The ongoing tension between tradition and modernity 'shaped by wars, revolutions, and economic transformations' forms the central theme of the course.

**HIST 004 3.0 Units**
**History of Western Civilization to 1500**
*C-ID: HIST 170*
*General Education: SCC: Area D; IGETC: Area 3B, 4; CSU: Area C2, D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Survey of the history of the development of western culture and civilization to the Reformation. Emphasis will be on analyzing the major social, political, economic and cultural forces which have shaped European societies.

**HIST 005 3.0 Units**
**History of Western Civilization Since 1500**
*C-ID: HIST 180*
*General Education: SCC: Area D; IGETC: Area 3B, 4; CSU: Area C2, D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Survey of the history of western civilization from 1500 to the present. Emphasis will be on analyzing the major social, political, economic and cultural forces which have shaped modern European history.

**HIST 010 California History 3.0 Units**
*General Education: SCC: Area E; IGETC: Area 3B, 4; CSU: Area C2, D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Survey of California history from the pre-colonial, Native American period to the modern state. Particular emphasis will be placed on the interplay of geographic, economic, political, social and cultural forces that shaped both the development of this diverse state and the experiences of a wide range of peoples who have inhabited it.

**HIST 017 History of the United States to 1877 3.0 Units**
*C-ID: HIST 130*
*General Education: SCC: Area E; IGETC: Area 3B, 4, CSU 2; CSU: Area C2, D, CSU 2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Survey of the history of the United States from its Native American, African and European origins through the period of Civil War and Reconstruction. Emphasis is placed on analyzing the major economic, social, political, and cultural events, movements and trends that shaped historical developments, examining cause and effect relationships and interpreting primary and secondary sources.

**HIST 018 3.0 Units**
**History of the United States from 1865**
*C-ID: HIST 140*
*General Education: SCC: Area E; IGETC: Area 3B, 4, CSU 2; CSU: Area C2, Area D , CSU 2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Survey of the history of the United States from Reconstruction to the present. Examines the major economic, social, political, and cultural events that shaped the United States and their impact on American life. This course also examines the United States' increasing involvement in world affairs. Special emphasis is placed on analyzing the cause and effect relationships in U.S. history and on the historical interpretation of events and trends in U.S. history.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
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# HIST - History

**HIST 028 African American History to 1877 3.0 Units**
*General Education: SCC: Area E; IGETC: Area 3B, 4;*
*CSU: Area C2, D; CSU American Institutions, CSU Ethnic Studies Requirement*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Survey of the African American experience in the United States from African origins to 1877. An emphasis is placed on the role of Africans in the settlement of North America, a comparison of colonial slave systems, and African American strategies of resistance and self-help. The course will examine the contributions of African Americans to the social, political, and economic development of the United States.

**HIST 029 African American History Since 1865 3.0 Units**
*General Education: SCC: Area E; IGETC: Area 3B, 4;*
*CSU: Area C2, D; CSU American Institutions, CSU Ethnic Studies Requirement*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Survey of the political, social, and economic history of African Americans from Reconstruction (1865) to the present. An emphasis is placed on the transition of African Americans from slavery to freedom, segregation, migration and urbanization, black ideology and leadership, and African American protest movements of the twentieth century. The course will closely examine the role of African Americans in shaping the American nation.

**HIST 031 Mexican American/Chicano History 3.0 Units**
*General Education: SCC: Area E; IGETC: Area 3B, 4;*
*CSU: Area C2, D; CSU American Institutions, CSU Ethnic Studies RequirementTransferable to UC/CSU*
*Hours: 48-54 lecture*
Survey of Mexican American/Chicano history from the pre-Columbian civilizations of Mexico to the present. The course will emphasize the economic, social, cultural, and political conditions and events that have shaped the history of Mexican Americans/Chicanos in the United States. Special attention is given to the contributions of Mexican Americans and Mexican immigrants to the multi-cultural development of the United States.

**HIST 037 Women in American History 3.0 Units**
*General Education: SCC: Area E, F; IGETC: Area 3B, 4, SCC Cross-Cultural; CSU: Area C2, D , CSU 2, SCC Cross-Cultural*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A multi-cultural survey of American history from pre-colonial times to the present examining the impact of ethnic and cultural diversity, class, and gender on the lives of women.

# Horticulture

## Horticulture and Plant Science

*Certificate of Achievement and Associate in Science*

**Program Description**

This program is designed to provide theory and practical experience needed to enter the horticulture field or prepare for advancement or certification. It also offers some of the basic courses required of horticulture majors transferring to four-year institutions.

The Certificate of Achievement can be obtained by completing the 23-unit major. The Associate in Science can be obtained by completing the 23-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Horticulture Science Certificate of Achievement/Associate in Science will be able to:

1. Design and draft landscape plan.
2. Design an Integrated Pest Management (IPM) plan.
3. Estimate the cost of a landscape construction project.

| **REQUIRED COURSES** | **Units** |
|---|---|
| HORT 006 Identification and Ecology of Landscape Plant Materials. | 4 |
| HORT 030 Landscape Design I | 3 |
| HORT 050 Introduction to Horticulture | 3 |
| HORT 055 Soils and Fertilizers. | 3 |
| HORT 056 Landscape Pest Control and Management | 4 |
| HORT 070 Landscape Construction and Estimation | 3 |
| HORT 071 Irrigation Principles | 3 |
| **Required Major Total Units** | **23** |

## Landscape Designer

*Job-Direct Low Unit Certificate*

| **REQUIRED COURSES** | **Units** |
|---|---|
| HORT 006 Identification and Ecology of Landscape Plant Materials | 4 |
| HORT 030 Landscape Design I | 3 |
| HORT 031 Landscape Design II | 3 |
| HORT 050 Introduction to Horticulture | 3 |
| **Total Units** | **13** |

## Landscape Technician

*Job-Direct Low Unit Certificate*

| **REQUIRED COURSES** | **Units** |
|---|---|
| HORT 006 Identification and Ecology of Landscape Plant Materials | 4 |
| HORT 050 Introduction to Horticulture | 3 |
| HORT 071 Irrigation Principles | 3 |
| OCED 090 Occupational Work Experience | 1 |
| **Total Units** | **11** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# HORT - Horticulture

**HORT 006** **4.0 Units**
**Identification and Ecology of Landscape Plant Materials**
*C-ID: AG-EH 108/L*
*Course Advisory: HORT 050*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 48-54 lab*
A study of the identification, growth habits, cultural and environmental needs, ecology, and ornamental uses of common landscape and indoor plants adapted to California climates. Plants emphasized will come from the current California Association of Nurseries and Garden Centers (CANCG) and Professional Landcare Network (PLANET) certification test plants lists. Plant materials from local regions will also be included.

**HORT 030 Landscape Design I** **3.0 Units**
*Course Advisory: HORT 006; HORT 050*
*Transferable to UC/CSU ; UC limitation of credit: 1 course between HORT 030 and HORT 031*
*Hours: 32-36 lecture, 48-54 lab*
An introduction to the skills and techniques of landscape design principles and practices. Laboratories will stress drafting techniques through design projects.
*Field trips may be required.*

**HORT 031 Landscape Design II** **3.0 Units**
*Prerequisite**: HORT 030*
*Course Advisory: HORT 050*
*Transferable to UC/CSU; UC limitation of credit: 1 course between HORT 030 and HORT 031*
*Hours: 32-36 lecture, 48-54 lab*
Presents the association of plant materials according to design principles and their environmental requirements with attention to groupings, arrangements and planting about buildings and other landscape structures. Landscape drafting will be stressed in the laboratory projects culminating in a term design project. *Mandatory field trips.*

**HORT 050 Introduction to Horticulture** **3.0 Units**
*C-ID: CG-PS 106/L*
*General Education: SCC: Area C*
*Transferable to CSU*
*Hours: 32-36 lecture, 48-54 lab*
Introduction to plant science as it relates to horticulture. Topics introduced include plant ecology, botany and taxonomy, plant structure, growth processes, physiology, propagation, growth media and soils, biological competitors, pests, post- harvest factors of food, fiber and ornamental plants, and industry career opportunities. The principles and practices of horticultural crop and plant production as they relate to plant, soil and climatic relationships will be stressed.

**HORT 055 Soils and Fertilizers** **3.0 Units**
*C-ID: AG-PS 128/L*
*Transferable to CSU*
*Hours: 32-36 lecture, 48-54 lab*
A study of the soil's physical, chemical and biological properties. Soil classification, derivation, uses, function and management including erosion, moisture retention, structure, cultivation, organic matter and microbiology will be discussed. Laboratories focus on evaluating soil health and fertility with field measurements.

**HORT 056** **4.0 Units**
**Landscape Pest Control and Management**
*Transferable to CSU*
*Hours: 48-54 lecture, 48-54 lab*
Study of horticultural pests, insects, weeds, diseases and other non-pathogenic causes common to the Solano County area emphasizing identification, cultural, rotational, natural and chemical control methods. Mandatory field trips and laboratory experiences will provide experiences in detection, identification and techniques necessary to manage and control various species of plant pests.
A collection is required.

**HORT 070** **3.0 Units**
**Landscape Construction and Estimation**
*Course Advisory: HORT 050*
*Transferable to CSU*
*Hours: 32-36 lecture, 48-54 lab*
Study of the construction of patios, decks, walks, retaining walls, raised planters, mowstrips, fences, overhead structures, masonry work, sprinkler layout and other landscape features with emphasis on building code specifications. Previews contractor's licensing. Site development and construction skills will be developed during the laboratory.

**HORT 071 Irrigation Principles** **3.0 Units**
*Course Advisory: HORT 055*
*Transferable to CSU*
*Hours: 32-36 lecture, 48-54 lab*
Study of the principles and management of water development and use in agricultural and horticultural production with special emphasis on water supplies, measurement, movement through soils, application methods, amounts needed and problems of distribution. The field laboratories will develop management techniques through exercises and field trip observations.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
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# HORT - Horticulture

**HORT 101 Plant Propagation and Production 3.0 Units**
*C-ID: AG-EH 116/L*
*Course Advisory: HORT 050*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
Plant propagation and production practices with emphasis on nursery and greenhouse operations, including sexual and asexual reproduction, planting, transplanting, fertilizing, plant pest and disease control; structures and site layout; preparation and use of propagating and planting mediums; use and maintenance of common tools and equipment; regulations pertaining to plant production.

**HORT 301A 2.0 Units**
**Adaptive Horticulture - Basic Skills and Practices**
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 64-72 lab*
A horticulture pre-vocational training course adapted for, but not limited to, students with developmental, intellectual and/or physical disabilities. Students will learn basic horticultural skills in a garden, nursery, greenhouse, and landscape setting. Students will develop an understanding of the cultural requirements of plants and how to care for them. Appropriate workplace skills will be emphasized, safety training and proper tool usage will be incorporated throughout the course.
*Field trips may be required.*

**HORT 301B 2.0 Units**
**Adaptive Greenhouse Management**
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 64-72 lab*
A greenhouse skills pre-vocational training course adapted for, but not limited to, students with developmental, intellectual and/or physical disabilities. Students will learn greenhouse management skills for employment preparation. *Field trips may be required.*

**HORT 301C 2.0 Units**
**Adaptive Nursery and Landscape Management**
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 64-72 lab*
A nursery and landscape skills pre-vocational training course adapted for, but not limited to, students with developmental, intellectual and/or physical disabilities. Students will learn nursery and landscape management skills for employment preparation.
*Field trips may be required.*

**HORT 301D 2.0 Units**
**Adaptive Vegetable and Orchard Management**
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 64-72 lab*
A vegetable and orchard skills pre-vocational training course adapted for, but not limited to, students with developmental, intellectual and/or physical disabilities. Students will learn vegetable and orchard management skills for employment preparation.
*Field trips may be required.*

**HORT 301E Adaptive Plant Propagation 2.0 Units**
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 64-72 lab*
A Plant propagation skills pre-vocational training course adapted for, but not limited to, students with developmental, intellectual and/or physical disabilities. Students will learn propagation management skills for employment preparation. *Field trips may be required*.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Human Services and Social Work

## Associate in Arts in Social Work and Human Services for Transfer (ADT: A.A.-T)

**Program Description**

The Social Work and Human Services program provides comprehensive training resulting in well-rounded Social Work and Human Services paraprofessionals. The curriculum is designed for people interested in various areas of employment such as mental and behavioral health, social welfare, developmental services, criminal justice, and chemical dependency. Graduates leave our program with a solid understanding of the human condition and the necessary skills needed to work with a diverse population. Students completing the Associate in Arts in Social Work and Human Services for Transfer are guaranteed priority admission with junior status to the CSU system, but not to a particular campus or major.

**To earn the Associate in Arts in History for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**REQUIRED COURSES** ..... **Units**

HSW 001 Introduction to Human Services and Social Work ..... 3
MATH 011 Elementary Statistics ..... 4
PSYC 001 Introduction to Psychology ..... 3
SOC 001 Introduction to Sociology ..... 3
COUN 064 Human Services and Social Work Seminar 1.5
COUN 064P Human Services and Social Work Practicum ..... 2

**List A: Biology (select one course)**

BIO 004 Human Anatomy ..... 5
BIO 005 Human Physiology ..... 5
BIO 016 Introduction to Human Biology ..... 3

**List B: Economics (select one course)**

ECON 001 Principles of Economics (Macroeconomics) .. 3
ECON 002 Principles of Economics (Microeconomics) ... 3

**List C: Electives (select two coursres)**

CJ 001 Introduction to Criminal Justice ..... 3
PSYC 005 Abnormal Psychology ..... 3
PSYC 006 Developmental Psychology ..... 3
PSYC 040 Drugs, Society & Behavior ..... 3
SJS 001 Introduction to Social Justice Studies ..... 3
SOC 002 Social Issues and Problems ..... 3
ANTH 002 Cultural Anthropology ..... 3
CDFS 038 Child Growth and Development ..... 3
CDFS 050 Child, Family, and Community ..... 3
COMM 012 Intercultural Communication ..... 3
ENGL 004 Critical Thinking and Composition: Language in Context ..... 4
HIST 017 History of the United States to 1877 ..... 3
HIST 018 History of the United States from 1865 ..... 3
SJS 002 Introduction to Race and Ethnicity ..... 3

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

## Human Services and Social Work

*Certificate of Achievement and Associate in Arts*

**Program Description**

The Human Services and Social Work program provides comprehensive training resulting in well-rounded Human Services and Social Work paraprofessionals. The curriculum is designed for people interested in various areas of employment such as mental and behavioral health, social welfare, developmental services, criminal justice, and chemical dependency. Graduates leave our program with a solid understanding of the human condition and the necessary skills needed to work with a diverse population.

The Certificate of Achievement can be obtained upon completion of the 18.5-unit major. The Associate in Arts can be obtained upon completion of the 18.5-unit major, Associate Degree Selectives, general education requirements, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or P if taken on a Pass/No Pass basis. While units in this program are transferable to other institutions, students should contact a counselor for more information.

**Program Outcomes**

Students who complete the Human Services Certificate of Achievement/Associate in Arts will be able to:

1. Demonstrate culturally responsive helping skills and techniques.
2. Link consumers to services relevant to their needs.
3. Facilitate psychoeducational and support groups.
4. Apply basic Human Services knowledge and skills in community settings.

| **REQUIRED COURSES** | **Units** |
|---|---|
| HSW 001 Introduction to Human Services and Social Work | 3 |
| HSW 082 Serving Diverse Populations | 3 |
| PSYC 001 Introduction to Psychology | 3 |
| HSW 083 Introduction to Case Management | 3 |
| HSW 085 Introduction to Group Process | 3 |
| COUN 064 Human Services and Social Work Seminar | 1.5 |
| COUN 064P Human Services and Social Work Practicum | 2 |
| **Required Major Total Units** | **18.5** |

| **ASSOCIATE DEGREE SELECTIVES *(select 2 courses)*** | |
|---|---|
| CJ 001 Introduction to Criminal Justice | 3 |
| PSYC 005 Abnormal Psychology | 3 |
| PSYC 006 Developmental Psychology | 3 |
| PSYC 012 Introduction to Gender | 3 |
| PSYC 020 Personal and Social Behavior | 3 |
| PSYC 040 Drugs, Society & Behavior | 3 |
| SJS 001 Introduction to Social Justice Studies | 3 |
| SOC 001 Introduction to Sociology | 3 |
| SOC 002 Social Issues and Problems | 3 |
| **Associate Degree Required Major Total Units** | **24.5** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# HSW - Human Services and Social Work

**HSW 001 Introduction to Human Services 3.0 Units**
*General Education: CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Explore the history and purpose of human services and social work while famliarizing skills needed to provide culturally responsive services to diverse populations in areas such as social welfare, mental health, substance use, rehabilitation, and child, adult and elder care. Political and economic aspects inclusive of roles and functions of local human services and social work agencies systems will be examined.

**HSW 082 Serving Diverse Populations 3.0 Units**
*General Education: SCC Area F, SCC Cross-Cultural*
*Transferable to CSU*
*Hours: 48-54 lecture*
Explore the values, strengths, challenges, concerns and needs of diverse populations including, but not limited to, age, gender, ethnicity, socioeconomic status, physical or psychiatric (dis)ability, sexual orientation, and chemical dependency characteristics. Students have the opportunity to gain insight, knowledge and skills necessary to provide culturally responsive services when working with diverse populations in human services and social work settings.

**HSW 083 Introduction To Case Management 3.0 Units**
*Prerequisite**: HSW 001*
*Transferable to CSU*
*Hours: 48-54 lecture*
This introductory course will acquaint students with the traditional basic concepts and skills of case management. Students will learn the history and purpose of case management and legal and ethical considerations to consider when providing case management services. Ample opportunities are provided to practice assessment, service planning, completing referrals, monitoring services, and closing a case. Careers in case management and other related topics are explored.

**HSW 085 Introduction to Group Processes 3.0 Units**
*Prerequisite**: HSW 001*
*Transferable to CSU*
*Hours: 48-54 lecture*
An introduction to the theory and dynamics of group interaction including psychoeducational, support and therapeutic context. The various stages and processes of group development and facilitation are studied using both a conceptual and experiential approach. This course is intended to assist persons who will function as leaders in a variety of small group situations.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
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# Humanities

## DEGREES

Humanities is the study of how people process and document the human experience, using philosophy, literature, religion, art, music, and history to understand and record our world. The Humanities are ways of thinking about what is human about our diverse histories values, ideas, and words. The courses do not lead to a certificate, degree or transfer agreement in themselves. However, these courses may apply to other programs and may also be used toward lower division general education.

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# HUMN - Humanities

**HUMN 001 What It Means To Be Human 3.0 Units**

*Prerequisite**: ENGL 001*
*General Education: SCC: Area D; IGETC: Area 3B; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

Exploration of what it means to be human by examining human life in several ways such as humans as social beings, language users, thinkers, myth makers, aggressors and peace makers, revolutionaries, scientists, and creators, and media creators and consumers. Inquiry into each category will involve critical thinking, artistic sensitivity, and historical perspective.

**HUMN 002 3.0 Units**

**Humans As Creators: The Media of Creativity**

*General Education: SCC: Area D; IGETC: Area 3B; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

Exploration of the varieties of ways in which humans demonstrate their creative ability ranging from a study of the creative process itself to an examination of creativity in the arts, in the sciences, and in human organization.

**HUMN 003 3.0 Units**

**Journey In a Multicultural Landscape**

*General Education: SCC: Area D, F; IGETC: Area 3B, SCC Cross-Cultural; CSU: Area C2, SCC Cross-Cultural*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

Interdisciplinary course to help students recognize and explore sites of multicultural interaction and conflict in the U.S. by examining at least three different American ethnic cultures as well as cultural issues of gender, disability, sexual orientation, and age. Inquiry into the process of the making and representation of cultural artifacts will enable critical appraisal and appreciation, interpersonal sensitivity and multicultural perspective.

# Journalism

## Associate in Arts in Journalism for Transfer (ADT: A.A.-T)

**Program Description**
Journalism teaches critical thinking and communication skills that enable students to translate events and issues of importance accurately and responsibly. The Associate in Arts in Journalism for Transfer is intended for students who plan to complete a bachelor's degree in Journalism, Mass Communication, Public Relations or Advertising at a CSU campus. Students completing this degree are guaranteed priority admission to the CSU system, but not to a particular campus or major.

Students will gain first-hand experience of journalism through practicum on the student newspaper, The Tempest, and its online version ***Solanotempest.net***, and in some cases through placement in internships in the industry. Students learn the ethics and laws associated with journalism, as well as develop an understanding their own First Amendment rights.

**To earn the Associate in Arts in Journalism for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or
      the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0

3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis**Program Outcomes**

Students who complete the Associate in Arts in Journalism for Transfer will be able to:

1. Demonstrate the research and critical thinking skills necessary to analyze and interpret current issues in a professional media environment.
2. Demonstrate a working knowledge of the written, oral and visual communication skills necessary to analyze, interpret and produce accurate news and editorials across a variety of platforms.
3. Analyze and debate the legal and ethical issues of journalism and apply them to individual circumstances.
4. Demonstrate a working knowledge of the fundamental technological applications of media production.

| **REQUIRED COURSES** | **Units** |
|---|---|
| JOUR 001 Newswriting and Reporting | 3 |
| JOUR 011 Introduction to Mass Communication | 3 |
| JOUR 060 Publications Laboratory | 3 |
| One course from List A | 3 |
| Two courses from List B | 6-7 |
| **Required Major Total Units** | **18-19** |

| **List A: (select one course):** | **Units** |
|---|---|
| JOUR 061 Publications Laboratory II | 3 |
| PHOT 056 Photojournalism & Documentary Photography | 3 |

| **List B: (select two courses):** | **Units** |
|---|---|
| CIS 085 Digital Publishing with InDesign | 3 |
| COMM 006 Argumentation and Debate | 3 |
| ECON 001 Principles of Economics (Macroeconomics) | 3 |
| or | |
| ECON 002 Principles of Economics (Microeconomics) | 3 |
| MATH 011 Elementary Statistics | 4 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# JOUR - Journalism

**JOUR 001 Newswriting & Reporting 3.0 Units**
*C-ID: JOUR 110*
*Transferable to UC/CSU; UC limitation of credit: 1 course between JOUR 001 and JOUR 002*
*Hours: 48-54 lecture*
An introduction to gathering, synthesizing/organizing and writing news in journalistic style across multiple platforms. Includes role of the journalist and related legal and ethical issues; and issues of race, gender, and representation in the field of journalism.. Students will report and write based on their original interviews and research to produce news content. Experiences may include covering speeches, meetings and other events, writing under deadline and use of AP Style.

**JOUR 011 3.0 Units**
**Introduction to Mass Communication**
*C-ID: JOUR 100*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Survey of mass communication and the interrelationships of media with society including history, structure and trends in a digital age. Discussion of theories and effects, economics, technology, law and ethics, global media, media literacy, and social issues, including gender and cultural diversity.

**JOUR 060 Publications Laboratory 3.0 Units**
*C-ID: JOUR 130*
*Transferable to CSU*
*Hours: 144-162 lab*
Introduction to student-produced and student-led news production and publication, including practical experience in design/layout, visual, online, multimedia journalism and emerging technologies, with a variety of student media across multiple platforms, including print, broadcast, and online. Individually, students will complete weekly news assignments. Collectively, students will regularly produce a news or feature non-fiction product by and for students, with a journalism emphasis, a local focus, and an attention to diversity, equity, and inclusion in the newsroom and Solano College community. All publications will be distributed to the campus and community.

**JOUR 061 Publications Laboratory II 3.0 Units**
*C-ID: JOUR 131*
*Prerequisite**: JOUR 060*
*Transferable to CSU*
*Hours: 112-126 lecture, 32-36 lab*
This intermediate course requires higher skill level and/or leadership involvement than News Production and Publication I. Student-produced, and student-led news production and publication, including practical experience in design/layout, visual, online, multimedia journalism and emerging technologies, with a variety of student media across multiple platforms, including print, broadcast, and online. Individually, students will complete weekly news assignments. Collectively, students will regularly produce a news or feature non-fiction product by and for students, with a journalism emphasis, a local focus, and attention to diversity, equity, and inclusion in the newsroom and Solano College community. All publications will be distributed to the campus and community.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# Kinesiology

# Intercollegiate Athletics

The Intercollegiate Athletics Program is governed by the California Community College Athletics Association. Solano Community College is a member of the Bay Valley Conference and participates in a number of men's and women's intercollegiate sports.

To practice and participate, student athletes must enroll in the corresponding ATHL course and present evidence from a physician that they are physically fit to participate in an intercollegiate athletic activity. To be eligible, student athletes must be continuously enrolled in a minimum of 12 units during the semester of competition. For the second year of competition, the student athlete must have completed 24 units between seasons of competition with a minimum 2.0 grade point average. All athletes must have an educational plan on file with the athletic counselor and must be enrolled in at least 9 of their 12 mandatory units toward their educational plan. Additional eligibility information may be obtained from the Athletic Director or respective Solano Community College coach.

Intercollegiate athletic sports and corresponding courses offered are:

***MEN'S***

Baseball (Spring) - ATHL 015
Basketball (Fall) - ATHL 016A/(Spring) - ATHL 016B

***WOMEN'S***

Basketball (Fall) - ATHL 002A/(Spring) - ATHL 002B
Soccer (Fall) - ATHL 004
Softball (Spring) - ATHL 003
Volleyball (Fall) - ATHL 001

***MEN'S/WOMEN'S***

Swimming/Diving (Spring) - ATHL 010
Tennis (Spring) - ATHL 022

# ATHL - Intercollegiate Athletics

**ATHL 001** **3.0 Units**

**Women's Intercollegiate Volleyball (Fall)**

*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 160-180 lab*

A comprehensive course designed for the student-athlete covering advanced intercollegiate volleyball skills. The course includes the theories and analyses of offensive and defensive strategies, skill acquisition, development of fitness skills and mental preparation for competition. *Repeatable 3 times.*

**ATHL 001A** **2.5 Units**

**Off-Season Intercollegiate Volleyball Conditioning**

*Prerequisite**: Athletic Tryout & Team Selection*
*Course Advisory: High School and competitive experience*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 128-144 lab*

A comprehensive course designed for the student-athlete covering intercollegiate volleyball skills. The course includes the theories and analyses of offensive and defensive strategies, skill acquisition, development of fitness skills and mental preparation for non-traditional competition. *Repeatable 3 times.*

**ATHL 001B** **1.0 Unit**

**Pre-season Intercollegiate Volleyball**

*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 48-54 lab*

A comprehensive course designed for the intercollegiate student-athlete. The course focus is on continued development and enhancement of physical performance and maintenance level required of each student-athlete participating in intercollegiate volleyball. The course will focus on learning and execution of fitness/conditioning parameters as well as pre and post tests on volleyball skills. *Repeatable 3 times.*

**ATHL 002A** **1.0 Unit**

**Women's Intercollegiate Basketball (Fall)**

*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 64-72 lab*

A comprehensive course designed for the student-athlete covering advanced intercollegiate basketball skills. The course includes the theories and analyses of offensive and defensive strategies, acquisition and development of physical skills, and mental preparation for competition. *Repeatable 3 times.*

**ATHL 002B** **2.0 Units**

**Women's Intercollegiate Basketball (Spring)**

*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 96-108 lab*

A comprehensive course designed for the student-athlete covering advanced intercollegiate basketball skills. The course includes the theories and analyses of offensive and defensive strategies, acquisition and development of physical skills, and mental preparation for competition. *Repeatable 3 times.*

**ATHL 002C** **1.0 Unit**

**Off-Season Intercollegiate Basketball Conditioning**

*Prerequisite**: Athletic Tryout & Team Selection*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 48-54 lab*

A comprehensive course designed for the intercollegiate basketball student-athlete. The course focus is on continued development and enhancement of physical performance and maintenance level required of basketball. The course will focus on fitness/conditioning as well as basketball specific movements. *Repeatable 3 times.*

**ATHL 002D** **0.5 Unit**

**Intercollegiate Basketball Conditioning**

*Prerequisite**: Athletic Tryout & Team Selection*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 24-27 lab*

A comprehensive course designed for the intercollegiate basketball student-athlete. The course focus is on continuing to develop fundamental basketball skills. The course includes offensive and defensive concepts, skill acquisition, and fitness development specific to basketball. *Repeatable 3 times.*

**ATHL 002E** **1.5 Units**

**Pre-Season Intercollegiate Basketball Conditioning**

*Prerequisite**: Athletic Tryout & Team Selection*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 84-94.5 lab*

A comprehensive course designed for the intercollegiate basketball student-athlete. The course focus is on developing fundamental basketball skills. The course includes the theories and analyses of offensive and defensive strategies, skill acquisition, development of fitness and mental preparation for competition. *Repeatable 3 times.*

*UC limitation of credit: Maximum 4 elective units combined of Activity* courses, *A

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your* ***counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# ATHL - Intercollegiate Athletics

**ATHL 003 Intercollegiate Softball (Women) 3.0 Units**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 160-180 lab*
A comprehensive course designed for the student-athlete covering advanced softball skills. The course includes the theories and analyses of offensive and defensive strategies, skill acquisition, development of fitness skills and mental preparation for competition. *Repeatable 3 times.*

**ATHL 003A 3.0 Units**
**Off-Season Intercollegiate Softball Conditioning**
*Prerequisite**: Athletic Tryout & Team Selection*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 144-162 lab*
A comprehensive course covering fundamental softball skills designed to develop the off-season student-athlete. The course includes the theories and analyses of offensive and defensive strategies, skill acquisition, development of fitness skills and mental preparation for competition.
*Repeatable 3 times.*

**ATHL 003B 0.5 Unit**
**Pre-Season Intercollegiate Softball Conditioning**
*Prerequisite**: Athletic Tryout & Team Selection*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 24-27 lab*
A comprehensive course designed for the intercollegiate softball student-athlete. The course focus is on continued development and enhancement of physical performance and maintenance level required of softball. The course will focus on fitness/conditioning as well as sport-specific movements in preparation for the start of the collegiate season of competition. *Repeatable 3 times.*

**ATHL 004 3.0 Units**
**Women's Intercollegiate Soccer (Fall)**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 160-180 lab*
A comprehensive course designed for the student-athlete covering advanced intercollegiate soccer skills. The course includes the theories and analysis of offensive and defensive strategies, skill acquisition, development of fitness skills and mental preparations for competition. *Repeatable 3 times.*

**ATHL 004A 1.5 Units**
**Off-Season Intercollegiate Women's Soccer**
*Course Advisory: Higher level soccer playing experience such as high school and/or club level.*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 80-90 lab*
A comprehensive course designed for the student-athlete covering intercollegiate soccer skills. The course includes the theories and analyses of offensive and defensive strategies, skill acquisition, development of fitness skills and mental preparation for non-traditional competition.
*Repeatable 3 times.*

**ATHL 004B 1.5 Units**
**Pre-season Women's Intercollegiate Soccer**
*Prerequisite**: Athletic Tryout and Team Selection*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 80-90 lab*
A comprehensive course designed to develop the pre-season student athlete covering fundamental soccer skills. This is a course designed for the intercollegiate student-athlete. The course focus is on continued development and enhancement of physical performance and maintenance level required of each student-athlete participating in intercollegiate soccer. The course will focus on learning and execution of fitness/conditioning parameters as well as pre and post tests on soccer skills. *Repeatable 3 times*.

**ATHL 010 3.0 Units**
**Men's and Women's Intercollegiate Swimming and Diving**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 160-180 lab*
A comprehensive course designed for the student-athlete covering advanced intercollegiate swimming and diving skills. The course includes theories and analyses of skill acquisition, development of fitness skills and mental preparation for competition. *Repeatable 3 times*.

**ATHL 010A Off-Season Swimming & Diving 2.0 Units**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 96-108 lab*
A comprehensive course designed for the student athlete covering intercollegiate swimming and diving skills.
The course includes the theories and analyses of stroke technique and racing and diving strategies, skill acquisition, development of fitness and conditioning and mental preparation for non-traditional competition.
*Repeatable 3 times.*

*UC limitation of credit: Maximum 4 elective units combined of Activity* courses, *A

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
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# ATHL - Intercollegiate Athletics

**ATHL 010B Pre-Season Swimming & Diving 0.5 Units**
*General Education: SCC: Local District Requirement,* ***A; CSU: Area E**
*Transferable to UC/CSU*
*Hours: 24-27 lab*
A comprehensive course focused on the continued development and enhancement of physical performance and maintenance of the level required for competitive swimming and diving. The course includes the theories and analyses of stroke technique and racing and diving strategies, skill acquisition, development of fitness and conditioning and mental preparation for the season of competition. *Repeatable 3 times.*

**ATHL 015 Men's Intercollegiate Baseball 3.0 Units**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 160-180 lab*
A comprehensive course designed for the student-athlete covering advanced intercollegiate baseball skills. The course includes the theories and analyses of offensive and defensive strategies, skill acquisition, development of fitness skills and mental preparation for competition. *Repeatable 3 times*.

**ATHL 015A 3.0 Units**
**Off-Season Intercollegiate Baseball Conditioning**
*Prerequisite**: Athletic Tryout & Team Selection*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 144-162 lab*
A comprehensive course covering fundamental baseball skills designed to develop the off-season student athlete. The course includes the theories and analyses of hitting, pitching, and defensive strategies, skill acquisition, development of fitness skills, and mental preparation for competition. *Repeatable 3 times.*

**ATHL 015B 0.5 Unit**
**Pre-Season Intercollegiate Baseball**
*Prerequisite**: Athletic Tryout & Team Selection*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 24-27 lab*
A comprehensive course designed for the intercollegiate baseball student-athlete. The course focus is on continued development and enhancement of physical performance and maintenance level required of baseball. The course will focus on fitness/conditioning as well as sport specific movements in preparation for the start of the collegiate season of competition. *Repeatable 3 times.*

**ATHL 016A 1.0 Unit**
**Men's Intercollegiate Basketball (Fall)**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 64-72 lab*
A comprehensive course designed for the student-athlete covering advanced intercollegiate basketball skills. The course includes the theories and analyses of offensive and defensive strategies, acquisition and development of physical skills, and mental preparation for competition. *Repeatable 3 times*.

**ATHL 016B 2.0 Units**
**Men's Intercollegiate Basketball (Spring)**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC*
*Hours: 96-108 lab*
A comprehensive course designed for the student-athlete covering advanced intercollegiate basketball skills. The course includes the theories and analyses of offensive and defensive strategies, acquisition and development of physical skills, and mental preparation for competition. *Repeatable 3 times.*

**ATHL 022 Intercollegiate Tennis 3.0 Units**
*Prerequisite**: Athletic Tryout & Team Selection*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Transferable to UC/CSU*
*Hours: 160-180 lab*
A comprehensive course designed for the student-athlete covering advanced intercollegiate tennis skills. The course includes the four pillars of the game: mental, physical, tactical, and technical facets. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Through the intercollegiate competitive experience students will improve their individual tennis skills, increase their ability to employ advanced strategies and increase their knowledge of physical training, nutrition, and biomechanics underlying the development of force, power and accuracy. Day and/or overnight travel will be required.
*Repeatable 3 times.*

*UC limitation of credit: Maximum 4 elective units combined of Activity* courses, *A

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# ATHL - Intercollegiate Athletics

**ATHL 022A** **3.0 Units**

**Off-Season Intercollegiate Tennis Conditioning**

*Prerequisite**: Athletic Tryout & Team Selection*
*Course Advisory: Advanced tennis skills and/or competitive experience at the high school or tennis club level*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E *Transferable to UC/CSU*
*Hours: 144-162 lab*

A comprehensive pre-season course designed to help the tennis student-athlete to develop and practice skills. This course includes mental, physical, tactical and technical facets of the game of tennis. The course includes theories and analyses of offensive and defensive strategies, skill acquisition and sport specific fitness. *Repeatable 3 times.*

**ATHL 022B** **0.5 Unit**

**Pre-Season Intercollegiate Tennis Conditioning**

*Prerequisite**: Athletic Tryout & Team Selection*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E *Transferable to UC/CSU*
*Hours: 24-27 lab*

A comprehensive course designed for the intercollegiate tennis student-athlete. The course focus is on continued development and enhancement of physical performance and maintenance level required of tennis. The course will focus on fitness/conditioning as well as sport specific movements in preparation for the start of the collegiate season of competition. *Repeatable 3 times.*

**ATHL 025** **1.0-1.5 Unit**

**In-Season Intercollegiate Conditioning**

*Corequisite: Course is for Intercollegiate student athletes, must enroll in both ATHL (team course) and ATHL 020 in the same season. Each Sport has their own ATHL ___ (#). Take ATHL course that is represented with course of study*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E
*Hours: 48-54 or 72-81 lab*

A comprehensive course designed for the intercollegiate student athlete. The course focus is on continued development and enhancement of physical performance and maintenance in intercollegiate sports. The course will focus on learning and execution of fitness/conditioning parameters as well as pre- and post-test. Students will analyze advanced offensive and defensive strategies. *Repeatable 3 times*.

**ATHL 050A Beginning Peak Performance** **1.0 Unit**

*General Education: SCC: Local District Requirement; CSU: Area E Transferable to UC/CSU*
*Hours: 48-54 lab*

Exploration of the cognitive, social, and physiological factors influencing peak performance in sport. Students will learn and apply optimal performance techniques for optimizing sport performance through the development of mental skills and strategies for stress control, imagery, goal setting, and concentration.

**ATHL 050B Intermediate Peak Performance** **1.0 Unit**

*Prerequisite**: ATHL 050A*
*General Education: SCC: Local District Requirement; CSU: Area E Transferable to CSU*
*Hours: 48-54 lab*

The continued exploration of the cognitive, social, and physiological factors influencing peak performance in students who have taken Beginning Peak Performance. Students will expand and apply more advanced levels of performance techniques for optimizing sport performance through the development of mental skills and strategies for stress control, imagery, goal setting, and concentration. Students will progress to more advanced levels by applying the mental skills in competitive games and customizing individual mental skills programs that apply to individual sport specific competition.

*UC limitation of credit: Maximum 4 elective units combined of Activity* courses, *A

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# Kinesiology

## Associate in Arts in Kinesiology for Transfer (ADT: A.A.-T)

**Program Description**
The Associate in Arts in Kinesiology for Transfer is designed to provide a seamless transfer pathway for students interested in pursuing at least one Kinesiology degree option in the CSU system. Students who earn the Associate in Arts in Kinesiology for Transfer will receive guaranteed priority admission to the CSU system, but not to a particular campus or major.

Successful completion of the Associate in Arts in Kinesiology for Transfer prepares students to transfer into the CSU system and work in the sub-fields of Kinesiology. Students will learn about human functioning during sport and exercise, how exercise science and biomechanics is integrated into exercise program development, and observation and assessment of human performance. The Associate in Arts in Kinesiology for Transfer degree can provide students with the foundational knowledge necessary for transfer to a 4-year Bachelor of Science (BS) or Bachelor of Arts (BA) degree program. Students are encouraged to meet with a counselor to develop their educational plans as degree options and general education requirements vary for each university.

**To earn the Associate in Arts in Kinesiology for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Arts in Kinesiology for Transfer will be able to:

1. Identify major microscopic and gross structures of the major systems of the human body.
2. Describe normal physiological processes.
3. Describe the different sub disciplines of Kinesiology.
4. Describe the role of physical activity in daily life.
5. Explain the career options available to students graduating from departments of Kinesiology

| **REQUIRED COURSES** | **Units** |
|---|---|
| BIO 004 Human Anatomy | 5 |
| BIO 005 Introductory Physiology | 5 |
| KINE 040A Introduction to Kinesiology | 3 |
| Two courses from List A | 6-10 |
| 3 units from Movement-based courses (maximum of one course from any group) | 3 |
| **Required Major Total Units** | **22-26** |

| **List A: (select two courses, only one from same subject such as CHEM or PHYS)** | **Units** |
|---|---|
| BIO 016 Introduction to Human Biology | 3 |
| CHEM 001 General Chemistry | 5 |
| CHEM 012 Chemistry for Health Services | 5 |
| KINE 045C Advanced First Aid and Emergency Care | 3 |
| MATH 011 Elementary Statistics | 4 |
| PHYS 002 General Physics (Non-calculus) | 5 |
| PHYS 006 Physics for Science and Engineering | 5 |

# Kinesiology

**MOVEMENT-BASED COURSES**

**Aquatics: (maximum of one course) ..... Units**
KINE 002A Swimming - Beginning ..... 1
KINE 002B Swimming - Intermediate ..... 1
KINE 002D Swim for Fitness - Beginning..... 1

**Combatives: (maximum of one course)..... Units**
KINE 003A Self Defense - Beginning ..... 1
KINE 003D Judo - Beginning ..... 1
KINE 003E Judo - Intermediate..... 1
KINE 003X Cardio Kickboxing - Beginning..... 1

**Dance: (maximum of one course) ..... Units**
DANC 010A Ballroom Dance - Beginning..... 1
DANC 010B Ballroom Dance - Intermediate..... 1
DANC 011A Hip-Hop Dance ..... 1
DANC 012A Swing Dance - Beginning..... 1
DANC 012B Swing Dance - Intermediate..... 1
DANC 013A Jazz Dance - Beginning..... 1
DANC 013B Jazz Dance - Intermediate..... 1
DANC 013C Jazz Dance - Advanced ..... 1
DANC 014A Ballet - Beginning..... 1
DANC 014B Ballet - Intermediate ..... 1
DANC 015A Contemporary-Modern Dance - Beginning. 1
DANC 016A Tap Dance - Beginning..... 1
DANC 016B Tap Dance - Intermediate..... 1

**Fitness: (maximum of one course) ..... Units**
KINE 006E Fundamentals of Yoga ..... 1
KINE 006F Intermediate Yoga ..... 1
KINE 006X Pilates for Fitness - Beginning ..... 1
KINE 011A Body Conditioning - Beginning ..... 1
KINE 011B Body Conditioning - Intermediate ..... 1
KINE 011X Cardio Conditioning - Beginning ..... 1
KINE 012A Weight Training - Beginning..... 1
KINE 012B Weight Training - Beginning..... 1
KINE 012X Circuit Training - Beginning ..... 1
KINE 013X Step Aerobics - Beginning ..... 1
KINE 018A Functional & Core Training - Beginning ..... 1
KINE 019A Fit Ball Training - Beginning..... 1

**Individual Sports: (maximum of one course)..... Units**
KINE 021A Archery - Beginning ..... 1
KINE 023A Badminton - Beginning ..... 1
KINE 023B Badminton - Intermediate ..... 1
KINE 023X Tennis - Beginning ..... 1
KINE 023Y Tennis - Intermediate ..... 1

**Team Sports: (maximum of one course)..... Units**
KINE 030A Soccer - Indoor/Outdoor - Beginning ..... 1
KINE 030B Soccer - Intermediate ..... 1
KINE 032A Baseball - Beginning..... 1
KINE 032X Softball - Beginning ..... 1
KINE 036A Basketball - Beginning..... 1
KINE 036B Basketball - Intermediate..... 1
KINE 037A Beginning Volleyball..... 1
KINE 037B Intermediate Volleyball..... 1

*Consult with your **counselor** for guidance on custom course pathway*
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# KINE - Kinesiology

**KINE 002A Swimming - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Fundamental techniques of swimming, terminology, water adjustment, fluid mechanics, and water safety. Swimming strokes include freestyle and backstroke.

**KINE 002B Swimming - Intermediate 1.0 Unit**
*Course Advisory: KINE 002A*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Intermediate techniques of swimming, terminology, and fluid mechanics. Swimming strokes include freestyle, backstroke, breaststroke, and butterfly. Racing starts, flip turns, and touch turns are taught on a beginning level. Interval training concepts are introduced.

**KINE 002D Swim for Fitness - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Provides life-long fitness through cardiovascular endurance training and skill development in basic aquatics skills. The major components which make up a swimming workout and the concepts of interval training and sprint and distance training are included.

**KINE 003A Self Defense - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Equips the student with basic skills and knowledge for protection against physical assault. Includes basic fighting techniques, falls and recoveries, and disengagements with counter-attacks. Also included are developing a self-defense consciousness and knowledge about self-defense and the law.

**KINE 003B Self-Defense - Intermediate 1.0 Unit**
*Course Advisory: KINE 003A*
*General Education: SCC: Local District Requirement,* ***A***
*Transferable to UC/CSU*
*Hours: 48-54 lab*
This training course will will continue to review and hone skills and introduce additional punches and kicks, punch defenses with counterattacks, defenses against various chokes and kicks, bearhugs, and headlocks. Precision elements such as timing, distance, and alternative targeting are introduced.

**KINE 003D Judo - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
A basic judo course including techniques such as falls, holds, chokes, grips, grip breaks, balance breaks, and application of reverse locks. Strategies for the judo contest are included such as defenses, counters, break-up throws, take-downs, and general mat work. A historical overview of the martial arts is offered with an emphasis on the evolution of modern-day judo. *Field trip may be required*.

**KINE 003E Judo - Intermediate 1.0 Unit**
*Course Advisory: KINE 003D*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Advanced throwing and grappling techniques. Combinations, transitions, and strategies will also be covered. *Competition at the local level tournaments will be an option for interested students.*

**KINE 003X Cardio Kickboxing - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
An aerobic exercise program utilizing non-contact kickboxing techniques. Class format includes warm-up, pre-aerobics, peak aerobics and aerobic cool down as determined by musical beats per minutes (BPM). Hand weights, step boxes, and other equipment may be used for additional lower and upper body strength and conditioning. A flexibility cool-down will conclude the exercise session. (Formerly KINE 006A)

**KINE 003Y Cardio Kickboxing - Intermediate 1.0 Unit**
*Course Advisory: KINE 003X*
*General Education: SCC: Local District Requirement,* ***A;*** CSU: Area E
*Transferable to UC/CSU*
*Hours: 48-54 lab*
An aerobic exercise program utilizing non-contact kickboxing techniques. Emphasis will be placed on learning a variety of punches and kicks. Hand weights, step boxes, and other equipment may be used for additional lower and upper body strength and conditioning.
(Formerly KINE 006D)

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# KINE - Kinesiology

**KINE 006E Fundamentals of Yoga 1.0 Unit**
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Development of basic yoga postures, breathing practices, stretching and relaxation techniques as methods to improve flexibility, decrease stress and improve physical and mental well-being.

**KINE 006F Intermediate Yoga 1.0 Unit**
*Course Advisory: KINE 006E*
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Expand upon the techniques and philosophies of beginning yoga. Students will be exposed to intermediate postures, various specific yoga systems and additional philosophies of yoga from the masters.

**KINE 006X Pilates for Fitness 1.0 Unit**
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Utilizes Pilates techniques that can increase strength, flexibility and endurance. Pilates exercises can improve posture, alignment coordination, and balance. This course is targeted to improve core strength and overall fitness. (Formerly KINE 006C)

**KINE 006Y Pilates for Fitness - Intermediate 1.0 Unit**
*Course Advisory: KINE 006C*
*General Education: SCC: Local District Requirement, **A***
*Transferable to UC/CSU*
*Hours: 48-54 lab*
This intermediate level class is designed for individuals with previous Pilates experience. Students will improve overall movement fluidity, breathing techniques, kinesthetic awareness, proprioception, core strength and endurance while integrating the mind/body connection during movement based on the original techniques developed by Joseph H. Pilates.

**KINE 010A Fitness for Life 2.0 Units**
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 16-18 lecture, 48-54 lab*
An individualized approach to fitness with a focus on the individual's personal responsibility for his/her fitness and health throughout life. The study of the physiological changes one undergoes as a result of physical conditioning forms the basis for the development of a lifetime fitness plan. (Formerly KINE 005C)

**KINE 011A Body Conditioning - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
An activity course that will include all aspects of a complete fitness program: muscle strength and endurance training, cardio-respiratory endurance training, flexibility training, and body composition analysis. Students will learn to design their own exercise programs to achieve their personal fitness goals. (Formerly KINE 005J)

**KINE 011B Body Conditioning - Intermediate 1.0 Unit**
*Course Advisory: KINE 011A*
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
An activity course that will include all aspects of a complete fitness program: muscle strength and endurance training, cardio-respiratory endurance training, flexibility training, and body composition analysis. Students will build on their knowledge and fitness levels achieved in the beginning class. (Formerly KINE 005K)

**KINE 011X Cardio Conditioning - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Designed for students who desire a cardiovascular workout. Students will use cardio equipment including treadmills, stationary bikes, elliptical machines, and stair masters. Students may also perform cardio activity outside. Students will learn the important factor of pace, steadily improve their endurance, and learn how to design their own cardiovascular workout to achieve their own personal fitness goals. (Formerly KINE 005E)

**KINE 011Y Cardio Conditioning - Intermediate 1.0 Unit**
*Course Advisory: KINE 005E*
*General Education: SCC: Local District Requirement, **A***
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Intermediate cardio conditioning course for students wanting increased intensity of cardio workouts. Students may use indoor cardio equipment including treadmills, stationary bikes, elliptical machines, and stair masters. Additionally, jogging/running, bicycling, and street elliptical machines may be used. Students will learn the important factor of pace, heart rate training, and cardio fitness. Students will design their own cardiovascular workout (in consultation with instructor) to achieve their personal fitness goals.

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# KINE - Kinesiology

**KINE 012A Weight Training Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
A comprehensive weight training course for men and women with a focus on strength development and muscle hypertrophy. Resistive exercises via free weights and fixed weights are used for the development of every major muscle group. Students will learn to design their own strength training programs to achieve their personal fitness goals. (Formerly KINE 005M)

**KINE 012B Weight Training - Intermediate 1.0 Unit**
*Course Advisory: KINE 012A*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
A comprehensive weight training course for men and women that will build on strength development and muscle hypertrophy developed in the beginning course. Resistive exercises via free weights and fixed weights are used for the development of every major muscle group. Special emphasis will be directed at helping individuals define and concentrate on personalized fitness goals. (Formerly KINE 005N)

**KINE 012X Circuit Training - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
A fast-paced circuit where students participate in a balanced strength training program that includes upper body, lower body, and core exercises using free weights, machine weights, resistance bands, and their own body weight. (Formerly KINE 005D)

**KINE 012Y Circuit Training - Intermediate 1.0 Unit**
*General Education: SCC: Local District Requirement,* ***A***
*Transferable to UC/CSU*
*Hours: 48-54 lab*
An intermediate exercise circuit course where students participate in a balanced strength and conditioning training program that provides upper body, lower body, and core exercises using free weights, machine weights, resistance bands, and individual's body weight.

*UC limitation of credit: Maximum 4 elective units combined of Activity courses, *A*

**KINE 013A 1.0 Unit**
**Resistance Band Training - Beginning**
*General Education: SCC: Local District Requirement,* ***A***
*Transferable to UC/CSU*
*Hours: 48-54 lab*
An activity fitness course that utilizes resistance band techniques that can increase strength, flexibility, endurance and lean body composition. Resistance band exercises can help to improve and develop functionality and agility through strengthening weak muscles as well as core muscles. Students will learn to safely and effectively execute flexibility exercises and balancing exercises as well as strengthening exercises for all the major muscle groups. Skill exams and written exams serve to evaluate student achievement. Students will learn to design their own exercise programs to achieve their personal fitness goals.

**KINE 013X Step Aerobics - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement,* ***A***
*Transferable to UC/CSU*
*Hours: 48-54 lab*
An aerobic exercise program utilizing four inch, six inch, and eight inch step platforms. Class format includes warm-up, pre-aerobics, peak aerobics, aerobic cool down as determined by musical beats per minute (BPM). Body toning, strength building and flexibility components of the workout will be included to provide the student with a well-rounded fitness program. (Formerly KINE 005P)

**KINE 018A 1.0 Unit**
**Functional & Core Training - Beginning**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
A focus on functional and core conditioning for students in physically demanding sports, fitness activities and professions. This course will help improve performance by utilizing the components of endurance, power, agility, strength, speed, stamina, flexibility, coordination, and balance. (Formerly KINE 005R)

**KINE 018B 1.0 Unit**
**Functional & Core Training - Intermediate**
*General Education: SCC: Local District Requirement,* ***A***
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Intermediate core training for students in physically demanding sports, fitness activities and professions. The focus on core strength improves performance by utilizing the components of endurance, power, agility, strength, speed, stamina, flexibility, coordination, and balance.

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# KINE - Kinesiology

**KINE 018X Elite Fitness Training - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
A lifelong functional fitness training course designed for students who want to challenge their current level of fitness and performance. This course will increase a student's performance and knowledge through research and current training methods. (Formerly KINE 005Q)

**KINE 018Z Elite Fitness Training - Advanced 1.0 Unit**
*Course Advisory: KINE 018X*
*General Education: SCC: Local District Requirement,* ***A;** CSU: Area E
*Transferable to UC/CSU*
*Hours: 48-54 lab*
An advanced lifelong functional fitness training and educational course designed specifically for students who want to reach their highest level of fitness and peak performance. This course will increase a students' performance and knowledge by incorporating current research and advanced training methods to increase strength, stamina, and reduce injury risks.
(Formerly KINE 005S)

**KINE 019A Fit Ball Training - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Utilize fitness ball techniques to increase strength, flexibility, endurance and lean body composition. Fitness ball exercises can help to improve and develop functionality and agility through strengthening weak muscles as well as core muscles. Students will learn to safely and effectively execute flexibility exercises and balancing exercises as well as strengthening exercises for all the major muscle groups with and without hand weights. (Formerly KINE 078)

**KINE 019B Fit Ball Training - Intermediate 1.0 Unit**
*Course Advisory: KINE 019A*
*General Education: SCC: Local District Requirement,* ***A***
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Intermediate fitness ball exercises that increase strength, flexibility, endurance and lean body composition. This course will help to improve and develop functionality and agility through strengthening and balancing exercises targeting weaker muscles as well as core muscles.

**KINE 021A Archery - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Fundamental techniques of archery, terminology, accessories, and history of the sport. Practice and class competitions are provided to enhance skill development. (Formerly KINE 007F)

**KINE 021B Archery - Intermediate 1.0 Unit**
*Course Advisory: KINE 021A*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Improve archery skills and introduce field archery and dynamic (moving) target shooting. Students will learn to perform at international and Olympic distances.
(Formerly KINE 007G)

**KINE 023A Badminton - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Basic skills of Badminton: forehand, backhand, service, the clears and the smash. Also covered are singles and doubles strategy. History, terminology, rules and scoring, and care and selection of equipment are included. Skills exams and written exams serve to evaluate student achievement.
(Formerly KINE 008E)

**KINE 023B Badminton - Intermediate 1.0 Unit**
*Course Advisory: KINE 023A*
*General Education: SCC: Local District Requirement,* ***A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Intermediate badminton skills: clears-cross court, down the line and reverse cross-court; drops - at the net, from the backcourt and from the mid-court; service - forehand and backhand. Also covered are offensive and defensive techniques of the smash. Training drills, agility, endurance and court coverage for competitive play will be taught.
(Formerly KINE 008F)

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# KINE - Kinesiology

**KINE 023X Tennis - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
The fundamental techniques of tennis: forehand, backhand, basic serve, and volley. Terminology, rules, and history are included. Practice, skill drills, and class competition in both singles and doubles are provided to enhance skill development and game strategy. Skills exams and written exams serve to evaluate student achievement. (Formerly KINE 008A)

**KINE 023Y Tennis - Intermediate 1.0 Unit**
*Course Advisory: KINE 023X*
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Intermediate techniques of tennis: overhead shot, drop shot, volley, serves, and offensive and defensive lobs. Strategy for competitive play is emphasized. Skills exams and written exams serve to evaluate student achievement. (Formerly KINE 008B)

**KINE 023Z Tennis - Advanced 1.0 Unit**
*Course Advisory: KINE 023Y; 1 year experience high school team tennis and/or club tennis tournament experience*
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to CSU*
*Hours: 48-54 lab*
Advanced instruction in the techniques, tactics and strategies associated with competitive tennis. Special emphasis placed on drills and competitive play situations. (Formerly KINE 008D)

**KINE 024A Pickleball 1.0 Unit**
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to CSU*
*Hours: 48-54 lab*
This course will cover the beginning skills of pickleball. Emphasis on fundamental strokes, rules, terminology, and etiquette. Pickleball is a game played on a badminton sized court, indoors or outdoors. Emphasizes hand-eye coordination and active play in a popular worldwide game.

**KINE 025A Golf - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Beginning instruction and practice in fundamental golf strokes such as putting, chipping, pitching, and driving with irons and woods. Golf rules, strategies, etiquette, and selection and care of equipment are also covered. A field trip to a municipal golf course and golfing range may be required. Golf clubs are available for student use. Students may be responsible for reasonable greens fees. (Formerly KINE 007D)

**KINE 025B Golf - Intermediate 1.0 Unit**
*Course Advisory: KINE 025A*
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Intermediate-level instruction and practice in golf strokes such as putting, chipping, pitching, and driving with irons and woods. Golf rules, strategies, etiquette, and selection and care of equipment are also covered. A field trip to a municipal golf course and golfing range may be required. Golf clubs are available for student use. Students may be responsible for reasonable greens fees. (Formerly KINE 007E)

**KINE 030A 1.0 Unit**
**Soccer - Indoor/Outdoor - Beginning**
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
Hours: 48-54 lab
Fundamental techniques of soccer: terminology, rules, and history. Practice, skills drills, and class competitions are provided to enhance skill development and game strategy. (Formerly KINE 009B)

**KINE 030B Soccer - Intermediate 1.0 Unit**
*Prerequisite**: KINE 030A*
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Intermediate soccer skills acquired through team competition. Emphasis is placed upon offensive and defensive tactics and strategies. Develop knowledge and understanding of the current collegiate soccer rules and fitness. (Formerly KINE 009C)

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# KINE - Kinesiology

**KINE 032A Baseball - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Fundamental skills of baseball: throwing, catching, fielding, catching fly balls, hitting, bunting, base running, sliding, and playing defensive positions. Offensive and defensive drills practiced in preparation for controlled competition in class. History, rules, and terminology are included. (Formerly KINE 009F)

**KINE 032X Softball - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Fundamental techniques of softball, including terminology, rules and history. Practice, skill drills, and class competitions are provided to enhance skill development and game strategy. Students must provide their own glove. (Formerly KINE 009G)

**KINE 036A Basketball - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
An activity course for the student who desires to play basketball. Basic drills to improve footwork, shooting, passing, ball handling, and rebounding are performed. Basic offensive and defensive concepts are covered to prepare the student for 3 on 3, 4 on 4, and 5 on 5 competition in class. Basketball rules and terminology are included. (Formerly KINE 009A)

**KINE 036B Intermediate Basketball 1.0 Unit**
*Course Advisory: KINE 009A with a minimum grade of C*
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab.*
An activity course covering advanced basketball drills to improve footwork, shooting, passing, ball handling, and rebounding are performed. More advanced offensive and defensive concepts are covered to prepare the student for 3 on 3, 4 on 4, and 5 on 5 competition in class. Basketball rules and terminology are included. (Formerly KINE 009E)

**KINE 037A Volleyball - Beginning 1.0 Unit**
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
A comprehensive course that covers the basic volleyball skills: serve, pass, set attack, and block. Skill development is emphasized. This course presents information on team play, rules, history, and basic game strategy. Physical conditioning is an integral part of the course. (Formerly KINE 009H)

**KINE 037B Volleyball - Intermediate 1.0 Unit**
*Course Advisory: KINE 009H*
*General Education: SCC: Local District Requirement, **A**; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lab*
Fundamental volleyball skills at an intermediate level: serve, pass, set, attack, and block. The course focuses on offensive and defensive tactics and strategies in preparation for high-level competitive play. A comprehensive physical conditioning program is included to prepare the player for the rigors of volleyball activity. (Formerly KINE 009P)

**KINE 040A Introduction to Kinesiology 3.0 Units**
*C-ID: KIN 100*
*General Education: SCC: Local District Requirement*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Introduction to the interdisciplinary approach to the study of human movement. An overview of the importance of the sub-disciplines in kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions. (Formerly KINE 020A)

**KINE 041A Introduction to Sports Science 3.0 Units**
*General Education: SCC: Local District Requirement; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
The basic elements of sport sciences including: kinesiology, motor learning, biomechanics, exercise physiology, sports medicine, sport psychology and training theory. (Formerly KINE 020V)

*UC limitation of credit: Maximum 4 elective units combined of Activity courses, *A*

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# KINE - Kinesiology

**KINE 042A** **3.0 Units**

**Principles of Fitness & Sports Training**

*General Education: SCC: Local District Requirement; CSU: Area E*
*Transferable to UC/CSU*

*Hours: 48-54 lecture*

A comprehensive fitness course that includes the study of the human organism and its reactions to fitness and physical activity. Focus is on the physiological adaptations, exercise training/prescriptions, nutrition, ergogenic aids, environmental factors, and the major medical and health conditions. (Formerly KINE 020W)

**KINE 045C** **3.0 Units**

**Advanced First Aid and Emergency Care**

*C-ID: KIN 101*
*General Education: SCC: Local District Requirement*
*Transferable to UC/CSU; UC limitation of credit: 1 course between KINE 045C and SPMD 054*

*Hours: 48-54 lecture*

Prepares individuals who may administer emergency care to the injured and ill. Upon successful completion of the course, students will be knowledgeable in Advanced First Aid and Emergency Care, cardiopulmonary resuscitation (CPR), and Automatic External Defibrillator (AED) for infants, children, and adults. Upon successful completion of the appropriate exam, the student will be eligible for certification in First Responder First Aid and CPR. Required of Kinesiology majors/minors and Transfer Model Curriculum. An additional fee may be required to receive an official American Red Cross CPR card. An American Heart Association certification is required for students pursuing EMT certification. (Formerly KINE 020S)

**KINE 050A Introduction to Sports Psychology 3.0 Units**

*General Education: SCC: Local District Requirement*
*Transferable to CSU*

*Hours: 48-54 lecture*

Introduction to psychological theories, concepts, strategies and skills designed to help individuals overcome the barriers to optimal athletic performance, exercise performance and general health performance. Mental skills such as imagery, goal setting, cognitive restructuring, attentional focusing, arousal regulation, and coping will be presented. With this course students establish a goal(s) and work toward it while aiming to cultivate the ideal mental state that fosters optimal performance. (Formerly KINE 057)

*UC limitation of credit: Maximum 4 elective units combined of Activity courses, *A*

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# Kinesiology

## Sports Medicine/Athletic Training

*Associate in Science*

**Program Description**

The Department of Kinesiology at Solano Community College offers a Sports Medicine Program. We are proud of our program and it's students. The program is very strong academically with a core of science courses and hands-on laboratories. The intent of the program is to increase the students' breadth and depth of knowledge relative to the discipline of Kinesiology and Health Science; to provide the opportunity for students to engage in scholarly activity that includes creative, critical, and analytical thinking; and to provide a focus of study that will enhance career commitment and allow for experiences that will lead to continued self-development and growth.

The Associate in Science can be obtained upon completion of the 25-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Sports Medicine/Athletic Training Associate in Science will be able to:

1. Recognize and identify common athletic injuries and the role the certified athletic trainer plays in injury assessment.
2. Complete athletic training competency skills required in first 2 years of ATEP Athletic Training programs. Develop and apply strategies to prevent the incidence and/or severity of injury and illnesses
3. Apply clinical and decision making skills to respond to acute injury and illness; including emergencies
4. Assess patient status and develop treatment and rehabilitation that are consistent with contemporary disablement models
5. Identify, in the laboratory, major microscopic and gross structures of the major systems of the human body.

| **REQUIRED COURSES** | **Units** |
|---|---|
| BIO 004 Human Anatomy | 5 |
| CHEM 010 Intermediate Chemistry | 4 |
| KINE 040A Introduction to Kinesiology | 3 |
| SPMD 054 Care and Prevention of Athletic Injuries | 3 |
| KINE 045C Advanced First Aid and Emergency Care | 3 |
| SPMD 055A Sports Medicine-Athletic Training Practicum Fall Sports | 3 |
| SPMD 055B Sports Medicine-Athletic Training Practicum Spring Sports | 3 |
| SPMD 071 Back Care and Injury Management | 1 |
| **Required Major Total Units** | **25** |

*Consult with your **counselor** for guidance on custom course pathway*
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# SPMD - Sports Medicine

**SPMD 054** **3.0 Units**

**Care and Prevention of Athletic Injuries**

*General Education: SCC Local District Requirement*
*Transferable to UC/CSU; ; UC limitation of credit: 1 course between KINE 045C and SPMD 054*
*Hours: 48-54 lecture*

An introduction to the field of Athletic Training/ Sports Medicine as a profession and as an academic discipline. Designed to train students in the recognition, rehabilitation, and prevention of athletic injuries. Emphasis is on learning and applying a variety of taping techniques and athletic training therapies. Recommended introductory course for the Sports Medicine program.

**SPMD 055A** **3.0 Units**

**Sports Medicine-Athletic Training Practicum Fall Sports**

*General Education: SCC Local District Requirement*
*Transferable to CSU*
*Hours: 24-27 lecture, 72-81 lab*

Supervised volunteer athletic experience which provides students with the opportunity for immediate recognition and treatment of lower extremity sports injuries. Emphasis is on taping techniques and rehabilitation which enables athletes to return to competition. Fall sport experience includes soccer, volleyball, rugby, and men's and women's basketball, those sports that pose most lower extremity injuries.

**SPMD 055B** **3.0 Units**

**Sports Medicine-Athletic Training Practicum Spring Sports**

*General Education: SCC Local District Requirement*
*Transferable to CSU*
*Hours: 24-27 lecture, 72-81 lab*

Supervised volunteer athletic experience which provides students with the opportunity for immediate recognition and treatment of upper extremity sports injuries. Emphasis is on taping techniques and rehabilitation which enables athletes to return to competition. Spring sport experience include softball, baseball, men's and women's swimming and diving. Injuries specific to these sports includes most upper extremity injuries.

**SPMD 056A** **3.0 Units**

**Sports Medicine-Athletic Training Practicum Fall Sports 2**

*Prerequisite**: SPMD 055A*
*Transferable to CSU*
*Hours: 24-27 lecture, 72-81 lab*

Supervised volunteer athletic experience which provides students with the opportunity of immediate recognition of lower extremity injuries. Emphasis on advanced techniques in rehabilitation and recognition of moderate to severe injuries.

**SPMD 056B** **3.0 Units**

**Sports Medicine-Athletic Training Practicum Spring Sports 2**

*Prerequisite**: SPMD 056A*
*Transferable to CSU*
*Hours: 24-27 lecture, 72-81 lab*

Supervised volunteer athletic experience which provides students with the opportunity for immediate recognition and treatment of upper extremity sports injuries. Emphasis is on taping techniques and rehabilitation which enables athletes to return to competition. Spring sport experience include softball, baseball, men's and women's swimming and diving. Injuries specific to these sports includes most upper extremity injuries.

**SPMD 071 Back Care and Injury Management 1.0 Unit**

*General Education: SCC Local District Requirement; CSU: Area E*
*Transferable to CSU*
*Hours: 48-54 lab*

Supervised volunteer athletic experience which provides students with the opportunity for immediate recognition and treatment of moderate level upper extremity sports injuries. Emphasis is on taping techniques and rehabilitation which enables athletes to return to competition. Spring sport experience includes, softball, baseball, mens and womens swimming and diving. Injuries specific to these sports include most upper extremity injuries.

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# LR - Learning Resources

## DEGREES

Learning resources classes support students in their coursework by exploring information competency, the ability to find, evaluate, use, and communicate information in all its various formats. Information competency includes consideration of the ethical and legal implications of information and requires the application of both critical thinking and communication skills. LR 010 is a co-requisite of ENGL 001: College Composition, and teaches skills that can be applied in all research and inquiry.

The courses do not lead to a certificate, degree or transfer agreement in themselves. However, these courses may apply to other programs and may also be used toward lower division general education.

# LR - Learning Resources

**LR 010** **1.0 Unit**

**Information Skills for College and Beyond**

*Transferable to UC/CSU; UC limitation of credit: 1 course between LR 010 and LR 011*

*Hours: 16-18 lecture*

Introduction to information literacy skills necessary for academic, career, and personal life success in the digital age. Psychological, sociological, and physiological implications of information on daily life, education, work, and social relationships will be explored. Critical skills helpful for managing information needs in college, career, and lifelong learning will be emphasized.

**LR 011** **1.5 Units**

**Internet Explored: Advanced Information Competency**

*Course Advisory: Computer literacy (familiarity with basic computer functions).*

*Transferable to UC/CSU; UC limitation of credit: 1 course between LR 010 and LR 011*

*Hours: 24-27 lecture*

An advanced information competency course evaluating information and exploring information technology in society including Internet, World Wide Web, search engines (e.g., Google, Ask, Live), retrieval systems, and electronic publishing.

# Mathematics

## Associate in Science in Mathematics for Transfer (ADT: A.S.-T)

**Program Description**
Successful completion of this major will assure competence in mathematics through differential and integral calculus, providing an adequate background for employment in many technological and scientific areas as well as providing a firm foundation for students planning to pursue a baccalaureate degree in mathematics.

The Associate in Science in Mathematics for Transfer is especially appropriate for students who plan to complete a bachelor's degree in Mathematics at a CSU campus. Students completing the AS-T 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 the AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree also prepares students for mathematics degree programs at other four-year institutions, but does not come with the same guarantees. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

**To earn the Associate in Science in Mathematics for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or
      the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Science in Mathematics for Transfer will be able to:

1. Solve problems expressed symbolically.
2. Analyze problems using a graphical or numerical perspective.
3. Interpret and analyze information to develop strategies to solve applications.

**REQUIRED COURSES** .....**Units**
MATH 020 Analytic Geometry and Calculus I ..... 4
MATH 021 Analytic Geometry and Calculus II ..... 4
MATH 022 Analytic Geometry and Calculus III ..... 4
MATH 040 Introduction to Linear Algebra ..... 3

MATH 023 Differential Equations ..... 4
or
MATH 011 Elementary Statistics ..... 4

**Required Major Total Units.....19**

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# MATH - Mathematics

**MATH 002** **4.0 Units**

**Algebra for Calculus (College Algebra)**

*C-ID: MATH 151*

*Prerequisite**: MATH 104 or a Multiple Measures Evaluation. MATH 104 is highly recommended for students who have not completed Algebra 2 or Integrated Math III in high school with a minimum grade of C.*

*General Education: SCC: Area B; IGETC: Area 2; CSU: Area B4*

*Transferable to UC/CSU; UC limitation of credit: 5 units between MATH 002 and MATH 004*

*Hours: 48-54 lecture; 48-54 lab*

Develops the skills and introduces the concepts necessary for further study in mathematics, and facilitate the application of those skills and concepts to other fields. Included is a review of elementary set algebra; the algebra of functions; the real and complex numbers as a field; algebraic, exponential, and logarithmic functions; equations and inequalities of these functions; solution of linear systems, matrix algebra, and introduction to sequences and series.

**MATH 004 Precalculus and Trigonometry** **6.0 Units**

*C-ID: MATH 955*

*Prerequisite**: MATH 103 and MATH 104 or recommendation based on a Multiple Measures Evaluation*

*General Education: SCC: Area B; IGETC: Area 2; CSU: Area B4*

*Transferable to UC/CSU; UC limitation of credit: 5 units between MATH 002 and MATH 004*

*Hours: 96-108 lecture*

A comprehensive study of mathematics that is prerequisite to the calculus sequence. Topics included are the study of polynomial, absolute value, radical, rational, exponential, and logarithmic functions, analytic geometry, and polar coordinates. The study of trigonometric functions, their inverses and their graphs, identities and proofs related to trigonometric expressions, trigonometric equations, solving right triangles, solving triangles using the Law of Cosines and the Law of Sines, and introduction to vectors. *Note: Not open for enrollment to students who have completed Math 051 or Math 002 with a minimum grade of C. Assignments may be given to students that require completion in the Math Activity Center*.

**MATH 011 Elementary Statistics** **4.0 Units**

*C-ID: MATH 110*

*Prerequisite**: MATH 104 or MATH 112 or Multiple Measures Evaluation*

*General Education: SCC: Area B; IGETC: Area 2; CSU: Area B4*

*Transferable to UC/CSU*

*Hours: 64-72 lecture*

An introduction to elementary probability and statistics including the basic rules of probability, probability distributions, descriptive statistics, hypothesis testing, estimation, correlation and regression analysis using data from a variety of disciplines and appropriate technology. *Assignments may be given that require completion in the Math Activities Center.*

**MATH 012 Mathematical Ideas** **3.0 Units**

*Prerequisite**: MATH 104 or MATH 112 or Multiple Measures Evaluation*

*General Education: SCC: Area B; IGETC: Area 2; CSU: Area B4*

*Transferable to UC/CSU*

*Hours: 48-54 lecture, 16-18 lab*

An introduction to the diversity of mathematics through the examination of ideas from logic, sets, the numeration systems, and other topics from contemporary mathematics. The emphasis is on problem solving.

**MATH 020 Analytic Geometry and Calculus I** **4.0 Units**

*C-ID: MATH 210*

*Prerequisite**: MATH 002 and MATH 051; or MATH 004*

*General Education: SCC: Area B; IGETC: Area 2; CSU: Area B4*

*Transferable to UC/CSU; UC limitation of credit: 1 course between MATH 020 and MATH 030*

*Hours: 48=54 lecture, 48-54 lab*

First of the three-semester sequence in Analytic Geometry and Calculus for students majoring in mathematics, engineering, and most physical sciences, is the study of the differential and integral calculus of functions of one variable. Topics covered are limits, continuity, differentiation of algebraic and transcendental functions, applications of the derivative, definite and indefinite integrals, fundamental theorem of calculus, and applications of the definite integral.

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# MATH - Mathematics

**MATH 021 Analytic Geometry and Calculus II 4.0 Units**
*C-ID: MATH 220*
*Prerequisite**: MATH 020*
*General Education: IGETC: Area 2; CSU: Area B4*
*Transferable to UC/CSU; UC limitation of credit: 1 course between MATH 021 and MATH 031*
*Hours: 48-54 lecture, 48-54 lab*
Second of the three-semester sequence in Analytic Geometry and Calculus for students majoring in mathematics, engineering, and most physical sciences, continues the study of the differential and integral calculus of functions of one variable. Topics included are introduction to differential equations, computing area and volume, applications and techniques of integration, polar coordinates, infinite series, improper integrals, and L'Hopital's Rule.

**MATH 022 4.0 Units**
**Analytic Geometry and Calculus III**
*C-ID: MATH 230*
*Prerequisite**: MATH 021*
*General Education: IGETC: Area 2; CSU: Area B4*
*Transferable to UC/CSU*
*Hours: 64-72 lecture*
Third of the three-semester sequence in Analytic Geometry and Calculus for students majoring in mathematics, engineering, and most physical sciences, is a study of three-dimensional analytic geometry, vectors and vector-valued functions, functions of several variables, the calculus of these functions, and vector analysis including Green's and Stokes' theorems.

**MATH 023 Differential Equations 4.0 Units**
*C-ID: MATH 240*
*Prerequisite**: MATH 021*
*Transferable to UC/CSU*
*General Education: IGETC: Area 2; CSU: Area B4*
*Hours: 64-72 lecture*
Ordinary differential equations emphasizing linear differential equations and systems with applications to engineering, physics, and chemistry. Included are Laplace transforms and power series methods of solution.

**MATH 026 4.0 Units**
**Mathematics and Engineering Problem Solving Using Matlab**
*Prerequisite**: MATH 021 (may enroll concurrently)*
*Transferable to UC/CSU*
*Hours: 48-54 lecture, 48-54 lab by arrangement*
Covers methodologies for solving mathematics and engineering problems. Students will also learn to perform mathematics and engineering computation and visualization using the MATLAB language. Students will write a variety of programs in the MATLAB language. *Same course as ENGR 026.*

**MATH 030 Business Calculus I 3.0 Units**
*C-ID: MATH 140*
*Prerequisite**: Math 104 or placement based on a Multiple Measures Evaluation*
*General Education: SCC: Area B; IGETC: Area 2; CSU: Area B4*
*Transferable to UC/CSU; UC limitation of credit: 1 course between MATH 020 and MATH 030*
*Hours: 48-54 lecture, 16-18 lab*
A calculus course with emphasis placed on applications of calculus concepts to business and management related problems. The applications of derivatives and integrals of functions including polynomials, rational, exponential and logarithmic functions are studied.

**MATH 031 Business Calculus II 3.0 Units**
*Prerequisite**: MATH 030 or placement based on a Multiple Measures Evaluation*
*General Education: SCC: Area B; IGETC: Area 2; CSU: Area B4*
*Transferable to UC/CSU; UC limitation of credit: 1 course between MATH 021 and MATH 031*
*Hours: 48-54 lecture, 16-18 lab*
A continuation of the calculus of functions of one variable (MATH 030). Topics included are the fundamental theorem of calculus, techniques of integration, numerical methods of integration, functions of several variables, elementary differential equations, and infinite series.

# MATH - Mathematics

**MATH 040 Introduction to Linear Algebra 3.0 Units**
*C-ID: MATH 250*
*Prerequisite**: MATH 021*
*Course Advisory: A relatively high degree of mathematical maturity is required for this course*
*General Education: IGETC: Area 2; CSU: Area B4*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Introduction to linear algebra, with a focus on finite dimensional real vector spaces. Topics include systems of linear equations and matrices, linear transformations, general vector spaces, eigenvectors and eigenvalues and associated eigenspaces, inner products and orthogonality.

**MATH 049 Mathematics Honors 1.0 to 3.0 Units**
*Prerequisite**: MATH 021 with a minimum grade of B*
*General Education: CSU: Area B4*
*Transferable to CSU*
*Hours: 48-162 lab by arrangement*
Requires students to complete an independent student project under the supervision of a member of the faculty. The project may involve extensive problem solving, research, or data analysis. In all cases, the final written product should show integration and synthesis of ideas. Students may take this course up to the maximum number of units over multiple semesters. This course requires approval of a faculty member sponsor and the Dean of the School of Math & Sciences.

**MATH 051 Trigonometry 3.0 Units**
*C-ID: MATH 851*
*Prerequisite**: MATH 103 and MATH 104 or placement based on a Multiple Measures Evaluation*
*General Education: SCC: Area B; CSU: Area B4*
*Transferable to CSU*
*Hours: 48-54 lecture*
Presents the essentials of plane trigonometry to prepare students for subsequent studies in physics, calculus, or related technical programs. Topics include definitions of the trigonometric functions and inverse trigonometric functions, solutions of triangles and applied problems, graphs, trigonometric identities and equations, and the trigonometric form of complex numbers.

**MATH 055 3.0 Units**
**Mathematical Concepts for Elementary School Teachers**
*C-ID: MATH 120*
*Prerequisite**: MATH 104 or MATH 112 or Successful completion of two years of high school algebra or recommendation based on a Multiple Measures Evaluation.*
*General Education: SCC: Area B; CSU: Area B4*
*Transferable to UC/CSU*
*Hours: 48-54 lecture.*
Focuses on the development of quantitative reasoning skills through in-depth, integrated explorations of topics in mathematics, including real number systems and subsystems. Emphasis is on comprehension and analysis of mathematical concepts and applications of logical reasoning.

**MATH 103 Plane Geometry 3.0 Units**
*Course Advisory: MATH 330 or MATH 330B with a minimum grade of C i*
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
The study of Euclidean (plane) geometry through conjecture, proof, and problem solving. Topics include the mathematical relationships of angles, parallels, triangles, quadrilaterals, circles, and solids. Additionally, coordinate geometry transformations are covered. *Assignments may be given that require completion in the Math Activities Center.*

**MATH 104 Intermediate Algebra 5.0 Units**
*Course Advisory: MATH 330*
*General Education: SCC: Area B*
*Non-transferable to UC or CSU*
*Hours: 80-90 lecture, 16-18 lab*
An extension of the fundamental algebraic concepts developed in Elementary Algebra. Additional topics include arithmetic operations on functions; composition of functions; basic graphing techniques; absolute value, exponential, logarithmic, quadratic, linear, and polynomial functions; equations of the second degree and their graphs; complex numbers; and systems of linear equations in two and three variables. *Assignments may be given that require completion in the Math Activities Center.*

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# MATH - Mathematics

**MATH 112** **4.0 Units**

**Intermediate Algebra for Liberal Arts**

*Course Advisory: A minimum grade of C in MATH 330*
*General Education: SCC: Area B*
*Non-transferable to UC or CSU*
*Hours: 64-72 lecture, 16-18 lab*

Students will develop their ability to solve problems with algebraic reasoning and learn to effectively communicate their solutions. Topics include number sense, functions, use of linear and exponential functions to model bivariate data, logarithms and an introduction to descriptive statistics and probability. *This course is designed to meet the mathematics graduation requirement for an Associate Degree. This course can also be taken by students planning to transfer to a four-year institution and major in an area of liberal arts (non-STEM majors) that requires either Statistics (MATH 011) or Math Ideas (MATH 012). Students who need a calculus course must take MATH 104 in preparation for pre-calculus. All transfer students should consult with a counselor or mathematics instructor for advice on whether to take MATH 112 or MATH 104. Lab hours may be scheduled or TBA depending on the section. Students are expected to complete both the lecture and lab portions of the course.*

**MATH 160 Math for Nursing School Students 0.5 Unit**

*Prerequisite**: Current acceptance or on the waiting list of an RN Program.*
*Non-transferable to UC or CSU*
*Hours: 8-9 lecture*

Focuses on mathematics topics that are critical to success for students entering an RN program. This course provides a review of select mathematics topics for students entering nursing school. It is especially designed for students that have had an extended time period between finishing their pre-nursing requirements and entering nursing school. *Pass/No Pass only course.*

**MATH 305 Prepare for Math Success 0.5 Unit**

*Non-transferable to UC or CSU*
*Hours: 8-9 lecture*

Review basic skills math topics from the last math course previously completed with the online math review program. In addition, students will explore and improve their math study skills. *Students will need access to the internet.*

**MATH 310 Arithmetic 3.0 Units**

*Non-transferable to UC or CSU*
*Hours: 64-72 lecture*

A course in basic mathematical computations designed to improve arithmetic skills and prepare the student for a pre-algebra level math course. Major topics include whole numbers, fractions, decimals, percents, simple geometry, measurement, and basic statistics.

**MATH 311 Elementary Statistics Support 0.5 Unit**

*Corequisite: MATH 011*
*Non-transferable to UC or CSU*
*Hours: 32-36 lab*

A review of the core prerequisite skills, competencies, and concepts needed in statistics. Intended for students who are concurrently enrolled in MATH 011, Elementary Statistics. Topics include concepts from arithmetic, pre-algebra, elementary and intermediate algebra, and descriptive statistics that are needed to understand the basics of college-level statistics. Concepts are taught through the context of descriptive data analysis. Additional emphasis is placed on solving and graphing linear equations and modeling with linear functions. *Enrollment in the course may occur as a result of the recommendation of a counselor or math instructor based on a Multiple Measures Evaluation. This course is Pass/No Pass only.*

**MATH 320 Pre-Algebra 4.0 Units**

*Non-transferable to UC or CSU*
*Hours: 64-72 lecture, 16-18 lab*

Designed to prepare the student for transition into a beginning algebra course. Major topics include operations on integers and rational numbers, the order of operations, introduction to variables, simplifying and evaluating expressions, solving basic linear equations, proportions, percents, basic geometry, graphing, and application problems.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# MATH - Mathematics

**MATH 330 Elementary Algebra 5.0 Units**
*Course Advisory: MATH 320 with a minimum grade of C*
*Non-transferable to UC or CSU*
*Hours: 80-90 lecture*
Introductory examination of the structure of the number system. Covers such topics as an introduction to set operations, the field axioms of the real numbers, and the properties of the whole number exponents. Emphasizes operations with fundamental expressions, solutions of first-degree equations, inequalities and linear systems. Introduces absolute value, radical and quadratic equations, applied problems involving first and second degree equations in one variable, point-slope and slope-intercept equations of lines and their graphs, and the concepts of relations and functions. *Not open to students who have passed MATH 330A.*

**MATH 330A Elementary Algebra, Part I 3.0 Units**
*Non-transferable to UC or CSU*
*Course Advisory: MATH 320 with a minimum grade of C*
*Hours: 48-54 lecture*
Introductory examination of the structure of the number system. Covers such topics as an introduction to the concept of set operations, the field axioms of the real numbers, order of operations, properties of whole number exponents, variables, variable expressions, operations with monomials, definition of a polynomial, addition and subtraction of polynomials, linear equations, graphing linear equations, linear inequalities, and systems of linear equations, solutions of first degree equations and inequalities in one variable, and applications. *A student must take MATH 330B to complete Elementary Algebra. Students who pass MATH 330A are not eligible for MATH 330.*

**MATH 330B Elementary Algebra, Part II 3.0 Units**
*Non-transferable to UC or CSU*
*Course Advisory: MATH 330A with a minimum grade of C*
*Hours: 48-54 lecture*
Introductory examination of the structure of the number system. Covers such topics as multiplication and division of polynomials, factoring, solving quadratic equations by factoring, operations with rational expressions, simplifying rational expressions, solutions of equations containing rational expressions, roots, radicals and the quadratic formula, and introduction to functions. *Successful completion of Math 330B completes Elementary Algebra.*

**MATH 500 Supervised Tutoring in MATH 0.0 Units**
*Corequisite: Concurrent enrollment in a MATH course for which tutoring assistance is requested*
*Non-transferable to UC or CSU*
*Hours: 16-180 lab*
Provides students with tutorial support for all mathematics courses. *Open entry/open exit, ungraded.*

**MATH 505 Supplemental Instruction: MATH 0.0 Units**
*Non-transferable to UC or CSU*
*Hours: 16-180 lab*
An open-entry, open-exit course for students who seek academic support, through supplemental instruction and use of computers, to fill in missing prerequisite knowledge and strengthen skills developed in a referring course or courses as follows: Math 002, 004, 011, 012, 020, 021, 022, 023, 026, 030, 031, 040, 051, 103, 104, 112, 310, 320, 330, 330A, 330B.

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# Music

## Associate in Arts in Music for Transfer (ADT: A.A.-T)

**Program Description**
The Associate in Arts in Music for Transfer provides students with the foundations for a broad range of musical specializations such as instrumental performance, vocal performance, jazz performance, composition, theory, musicology, ethnomusicology, music education, and music industry.

The Associate in Arts in Music for Transfer provides students with the foundations for a broad range of musical specializations such as instrumental performance, vocal performance, jazz performance, composition, theory, musicology, ethnomusicology, music education, and music industry. The Associate in Arts in Music for Transfer provides students with a major that fulfills the general requirements of the California State University for transfer. Students completing an Associate in Arts in Music for Transfer are guaranteed priority admission with junior status to the CSU system, but not to a particular campus or major.

To earn the Associate in Arts in Music for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Arts in Music for Transfer will be able to:

1. Analyze and perform the elements of music (rhythm, melody, harmony and form) with technical facility and artistry as a soloist and as a member of an ensemble.
2. Analyze musical scores and compositions.
3. Critique personal music performances and those of other musicians

| **REQUIRED COURSES** | **Units** |
|---|---|
| MUSC 005 Music Fundamentals | 3 |
| MUSC 001 Music Theory I | 4 |
| MUSC 002 Music Theory II | 4 |
| MUSC 003 Music Theory III | 4 |
| MUSC 008 Introduction to Music | 3 |
| MUSC 027 Elementary Piano Part I | 1 |
| MUSC 040A Applied Music I | 0.5 |
| MUSC 040B Applied Music II | 0.5 |
| MUSC 040C Applied Music III | 0.5 |
| MUSC 040D Applied Music IV | 0.5 |
| Four semesters of Large Ensemble courses | 4 |
| **Required Major Total Units** | **25** |

| **LARGE ENSEMBLE COURSES** | **Units** |
|---|---|
| MUSC 009 Wind Ensemble | 1 |
| MUSC 010 Concert Band | 1 |
| MUSC 011 Symphonic Band | 1 |
| MUSC 014 Jazz Ensemble | 1 |
| MUSC 015 Stage Band | 1 |
| MUSC 016 Symphony Orchestra | 1 |
| MUSC 017 Chamber Orchestra | 1 |
| MUSC 020 Choir | 1 |
| MUSC 024 Master Works Chorale | 1 |
| MUSC 025 Chamber Choir | 1 |
| MUSC 026 Vocal Jazz Ensemble | 1 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# Music

## *Music-Instrumental*

*Associate in Arts*

**Program Description**

This program gives students the opportunity to gain the skills and knowledge needed as preparation for careers in music. Required courses include theory and musicianship, piano proficiency and large performance ensemble. Performance opportunities in both vocal and instrumental music enhance a student's understanding and skill levels. The choice of music history/literature courses enables the student to customize his/her own needs and/or special interests. The music faculty is dedicated to assisting students in exploring performance and teaching opportunities. The degree provides students the foundations for a broad range of musical specializations such as traditional instrumental performance, jazz performance, composition, theory, musicology, ethnomusicology, music education, and music industry.

The Associate in Arts can be obtained by completing the 27-28-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Music-Instrumental Associate in Arts will be able to:

1. Analyze and perform the elements of music (rhythm, melody, harmony and form) with technical facility and artistry as a soloist and as a member of an ensemble.
2. Analyze and compose musical exercises using a variety of technical skills.
3. Critique personal music performances and those of other musicians.
4. Compare and contrast the characteristics of various musical cultures and historical periods.

| **REQUIRED COURSES** | **Units** |
|---|---|
| MUSC 001 BeginningTheory I | 4 |
| MUSC 002 Beginning Theory II | 4 |
| MUSC 003 Advanced Theory I | 4 |
| MUSC 005 Music Fundamentals | 3 |
| MUSC 041A Music Majors Piano | 1 |
| MUSC 041B Music Majors Piano | 1 |
| One course from List A | 1 |
| Two courses from List B | 2-3 |
| One course from List C | 3 |
| Three units from list D (One performance ensemble each semester) | 3 |
| **Required Major Total Units** | **27-28** |

| **List A: (select one course)** | **Units** |
|---|---|
| MUSC 010 Concert Band | 1 |
| MUSC 014 Jazz Ensemble | 1 |
| MUSC 017 Chamber Orchestra | 1 |
| MUSC 020 Choir | 1 |

| **List B: (select two courses)** | **Units** |
|---|---|
| MUSC 027 Elementary Piano Part I | 1 |
| MUSC 028 Elementary Piano Part II | 1 |
| MUSC 029 Intermediate Piano Part I | 1 |
| MUSC 030 Intermediate Piano Part II | 1 |
| MUSC 038 Class Lessons in Beginning Guitar | 1.5 |
| MUSC 039 Class Lessons in Intermediate Guitar | 1.5 |

| **List C: (select one course)** | **Units** |
|---|---|
| MUSC 007 Jazz and Popular Music in America: Ragtime to rock | 3 |
| MUSC 008 Music Appreciation | 3 |
| MUSC 013 Multicultural Music in America | 3 |
| MUSC 045 History of Rap and Hip-Hop | 3 |

| **List D: (select three units)** | **Units** |
|---|---|
| (One performance ensemble each semester) | |
| MUSC 009 Wind Ensemble | 1 |
| MUSC 010* Concert Band | 1 |
| MUSC 014* Jazz Ensemble | 1 |
| MUSC 015 Stage Band | 1 |
| MUSC 016 Symphony Orchestra | 1 |
| MUSC 017* Chamber Orchestra | 1 |
| MUSC 024 Master Works Chorale | 1 |

*If not used in List A

**MUSC 027 recommended the first semester of enrollment for students who do not have strong music reading skills. Please consult with an instructor.**

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# Music

## Music-Vocal

*Associate in Arts*

**Program Description**

This program gives students the opportunity to gain the skills and knowledge needed as preparation for careers in music. Required courses include theory and musicianship, piano proficiency and large ensemble. Performance opportunities in both vocal and instrumental music enhance a student's assimilation and skill levels. The choice of music history/literature courses enables the student to customize his/her own needs and/or special interests. The music faculty is dedicated to assisting students in exploring performance and teaching opportunities. The degree provides students the foundations for a broad range of musical specializations such as solo vocal performance, choral performance, choral directing, composition, theory, musicology, ethnomusicology, music education, as well as a broad range of specialties in the music industry.

The Associate in Arts can be obtained by completing the 27-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Music-Vocal Associate in Arts will be able to:

1. Analyze and perform the elements of music (rhythm, melody, harmony and form) with technical facility and artistry as a soloist and as a member of an ensemble.
2. Analyze and compose musical exercises using a variety of technical skills.
3. Critique personal music performances and those of other musicians.
4. Compare and contrast the characteristics of various musical cultures and historical periods.

**REQUIRED COURSES** .....**Units**

MUSC 001 Beginning Theory I..... 4
MUSC 002 Beginning Theory II..... 4
MUSC 003 Advanced Theory ..... 4
MUSC 005 Music Fundamentals ..... 3
MUSC 041A Music Majors Piano ..... 1
MUSC 041B Music Majors Piano ..... 1
MUSC 024 Master Works Chorale ..... 1
or
MUSC 025 Chamber Choir ..... 1
Two courses from List A ..... 2
One course from List B ..... 3
Three units from List C (One performance ensemble each semester)..... 3

**Required Major Total Units .....27**

**List A: (select two courses) ..... Units**

MUSC 029 Intermediate Piano Part I..... 1
MUSC 030 Intermediate Piano Part II..... 1
MUSC 035A Beginning Voice I ..... 1
MUSC 035B Beginning Voice II ..... 1
MUSC 036A Intermediate Voice I ..... 1
MUSC 036B Intermediate Voice II ..... 1
MUSC 051 Jazz and Popular Solo voice ..... 1

**List B: (select one course) ..... Units**

MUSC 007 Jazz and Popular Music in America: Ragtime to rock..... 3
MUSC 008 Music Appreciation ..... 3
MUSC 013 Multicultural Music in America ..... 3
MUSC 045 History of Rap and Hip-Hop..... 3

**List C: (select three units) ..... Units**

One performance ensemble each semester
MUSC 014 Jazz Ensemble ..... 1
or
MUSC 017 Chamber Orchestra..... 1
MUSC 020 Choir ..... 1
MUSC 021 Chorus ..... 1
MUSC 024* Master Works Chorale ..... 1
MUSC 025* Chamber Choir..... 1
MUSC 026 Vocal Jazz Ensemble ..... 1

*If not used in Required Courses

**MUSC 027 recommended the first semester of enrollment for students who do not have strong music reading skills. Please consult with an instructor**

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# MUSC - Music

**MUSC 001 Beginning Theory I 4.0 Units**
*C-ID: MUS 120 and MUS 125*
*Prerequisite**: MUSC 005*
*Course Advisory: MUSC 028*
*Transferable to UC/CSU*
*Hours: 64-72 lecture*
A study of diatonic scales and triads, intervals, diatonic chords, basic harmonic progressions and cadences, part writing, rhythm and meter, sight singing, ear training, dictation, history and performance. Short analysis and composition assignments are included to provide experience in the application of materials learned in class. This course is required for music majors.

**MUSC 002 Beginning Theory II 4.0 Units**
*C-ID: MUS 130 and MUS 135*
*Prerequisite**: MUSC 001*
*Course Advisory: MUSC 028*
*Transferable to UC/CSU*
*Hours: 64-72 lecture*
This course is a study of harmony and voice leading and is a continuation of MUSC 001. It provides a more in-depth study of scales, triads, diatonic harmonies, part writing, rhythms, sight singing, ear training, dictation, form, history, and performance. It also includes the study of harmonic progression, dominant and non-dominant seventh chords, modulation, secondary function chords, and binary and ternary form. It includes analysis and composition and is required for music majors.

**MUSC 003 Music Theory III 4.0 Units**
*C-iD: MUS 140 and MUS 145*
*Prerequisite**: MUSC 002*
*Course Advisory: MUSC 041A*
*Transferable to UC/CSU*
*Hours: 64-72 lecture*
This course presents the study of harmony and voice leading and is a continuation of MUSC 002. It includes the study of 16th- and 18th- century counterpoint, fugue, variation, altered chords, sonata allegro, and rondo forms, and late 19th century writing techniques; practice in rhythmic, melodic, harmonic, and contrapuntal sight singing; ear training, and dictation. *This course is required for music majors.*

**MUSC 004 Music Theory IV 4.0 Units**
*C-ID: MUS 150 and MUS 155*
*Prerequisite**: MUSC 003*
*Course Advisory: MUSC 041A*
*Transferable to UC/CSU*
*Hours: 64-72 lecture*
This course is a study of chromatic harmony and 20th century harmonic practices. It includes a more in-depth study of altered chords and late 19th- and 20th-century writing techniques including: 9th, 11th and 13th chords; altered dominants; chromatic harmony; dodecaphony; set theory; aleatory; minimalism; and analysis techniques. It includes practice in rhythmic, melodic, harmonic and contrapuntal sight-singing, ear-training and dictation.

**MUSC 005 Music Fundamentals 3.0 Units**
*C-ID: MUS 110*
*General Education: SCC: Area D; IGETC: Area 3A; CSU: Area C1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
This course introduces the elements of music including notation, rhythm and meter, diatonic scales and triads, key signatures, melody, chords and aural skills. Traces the historical and cultural progress of music through the development of musical symbols and their application. *No previous musical study is required.*

**MUSC 007 History of Jazz Music 3.0 Units**
*General Education: SCC: Area D; IGETC: Area 3A; CSU: Area C1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A survey of jazz music, using an historical approach. Includes listening to and analyzing examples of jazz music in relation to the social, technical and historical trends. Attention will be paid to issues of racism, representation, and the power structures that exist in both past and current practices of music.

**MUSC 008 Introduction to Music 3.0 Units**
*C-ID: MUS 100*
*General Education: SCC: Area D; IGETC: Area 3A; CSU: Area C1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An introductory examination of how composers and songwriters apply the various elements of music to heighten the expressive impact of a composition. Aspects of melody, rhythm, harmony, tone, and structure are studied through focused listening of works from the Renaissance to contemporary styles of avant-garde and popular music. Attention will be paid to issues of racism, representation, and the power structures that exist in both past and current practices of music. *This course requires no previous musical study.*

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
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# MUSC - Music

**MUSC 009 Wind Ensemble 1.0 Unit**
*C-ID: MUS 180*
*Prerequisite**: Ability to play a wind ensemble instrument. Students must demonstrate an adequate level of proficiency on an instrument to participate and perform with the wind ensemble*
*General Education: SCC: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lab, 16-18 lab by arrangement*
This course is the study and performance of wind ensemble repertoire. It is open to those who play a wind ensemble instrument. *Public performances and/or field trips are required. Repeatable 3 times.*

**MUSC 010 Concert Band 1.0 Unit**
*C-ID: MUS 180*
*Prerequisite**: Ability to play a concert band instrument. Students must demonstrate an adequate level of proficiency on an instrument to participate and perform with the concert band*
*General Education: SCC: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lab, 16-18 lab by arrangement*
This course offers the study and performance of concert band literature. It is open to those who play a concert band instrument. *Public performances and/or field trips are required. Repeatable 3 times.*

**MUSC 011 Symphonic Band 1.0 Unit**
*C-ID: MUS 180*
*Prerequisite**: Ability to play a concert band instrument. Students must demonstrate an adequate level of proficiency on an instrument to participate and perform with the concert band*
*Transferable to UC/CSU*
*General Education: SCC: Area D*
*Hours: 48-54 lab, 16-18 lab by arrangement*
This course offers the study and performance of various styles of symphonic band literature. Symphonic band literature, rehearsal technique, and performance practices are examined. *Public performances and/or field trips are required. Repeatable 3 times.*

**MUSC 013 Multicultural Music in America 3.0 Units**
*General Education: SCC: Area D, F; IGETC: Area 3A, SCC Cross-Cultural; CSU: Area C1; SCC Cross-Cultural*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A survey of multicultural music in America, including listening to and analyzing examples of multicultural music in relation to social, technical, and historical trends, including the role of music in influencing American attitudes toward ethnic identity, stereotyping, and racial prejudice. This course also examines the uniquely American style resulting from the interaction among musicians of many cultural, racial, national, and ethnic backgrounds.

**MUSC 014 Jazz Ensemble 1.0 Unit**
*C-ID: MUS 180*
*Prerequisite**: Ability to play at least one instrument commonly used in jazz ensemble.*
*General Education: SCC: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lab, 16-18 lab by arrangement.*
This course is the study and performance of jazz ensemble repertoire encompassing a wide variety of music in the jazz style. *Public performances and field trips are required. Repeatable 3 times.*

**MUSC 015 Stage Band 1.0 Unit**
*C-ID: MUS 180*
*Course Advisory: Ability to perform on one or more instruments in the stage band. Students must demonstrate an adequate level of proficiency on an instrument to participate and perform with the stage band.*
*General Education: SCC: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lab. 16-18 lab by arrangement*
This course is the study and performance of stage band repertoire encompassing a wide variety of music in the big band style. *Public performance required. Repeatable 3 times.*

**MUSC 016 Symphony Orchestra 1.0 Unit**
*C-ID: MUS 180*
*Course Advisory: Ability to play an orchestral instrument*
*Students must demonstrate an adequate level of proficiency on an instrument to participate and perform with the symphony orchestra.*
*Transferable to UC/CSU*
*Hours: 8-9 lecture, 16-18 lab, 8-9 lab by arrangement*
This course is the study and performance of orchestral repertoire. It is open to those who play an orchestral instrument. A wide variety of musical literature is covered. *Public performances and/or field trips are required. Repeatable 3 times. This is an Open Entry/Open Exit course*.

**MUSC 017 Chamber Orchestra 1.0 Unit**
*C-ID: MUS 180*
*Course Advisory: Ability to play an orchestral instrument. Students must demonstrate an adequate level of proficiency on an instrument to participate and perform with the chamber orchestra.*
*General Education: SCC: Area D; IGETC: Area 3A*
*Transferable to UC/CSU*
*Hours: 48-54 lab, 16-18 lab by arrangement*
This course is the study and performance of chamber orchestra repertoire. It is open to those who play an orchestral instrument. *Public performances and/or field trips are required. Repeatable 3 times.*

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# MUSC - Music

**MUSC 018 Beginning Steel Drum Band 2.0 Units**
*Transferable to UC/CSU*
*Hours: 16-18 lecture, 32-36 lab, 16-18 lab by arrangement*
An ensemble class with emphasis on music from the Caribbean. Regular rehearsal and performances using steel drums. This class also presents a comparison of Caribbean musical performance styles. Public performances and/or field trips required. *Repeatable 3 times.*

**MUSC 019 Instrumental Ensemble 2.0 Units**
*Course Advisory: Ability to read music and play an instrument*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 16-18 lab*
The study and performance of representative music literature for strings, woodwinds, brass and small mixed group ensembles. Includes improvisation, reading, ensemble practice and outside performance when possible. *Repeatable 3 times.*

**MUSC 020 Choir 1.0 Unit**
*C-ID: MUS 180*
*Course Advisory: Ability to sing in a choir. Students must demonstrate an adequate level or proficiency to participate and perform with the choir.*
*General Education: SCC: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lab, 16-18 lab by arrangement*
A performing mixed choir (S.A.T.B.) that studies and performs a variety of a cappella and accompanied choral literature. This course teaches fundamentals of reading choral music, using examples from choral literature. *Attendance at and involvement in public performances required. Field trips may be required. Repeatable 3 times.*

**MUSC 021 Chorus 1.0 Unit**
*C-ID: MUS 180*
*Prerequisite**: Students must demonstrate an adequate level of vocal proficiency to participate in and perform with the Chorus. Audition required.*
*General Education: SCC: Area C*
*Transferable to UC/CSU*
*Hours: 48-54 lab, 16-18 lab by arrangement*
A performing mixed choir (S.A.T.B.) that sings a variety of music, both historical and contemporary. This course teaches fundamentals of reading choral music, using examples from choral literature. *Repeatable 3 times.*

**MUSC 023 Handbell Ensemble 2.0 Units**
*Course Advisory: Previous musical experience is helpful*
*Transferable to UC/CSU*
*Hours: 16-18 lecture, 32-36 lab, 16-18 lab by arrangement*
Presents the study and performance of music for handbells. Music reading skills, techniques of handbell ringing, and musicianship skills are taught through lecture, rehearsal and performance of various styles of music arranged for handbells. *Previous musical experience is helpful but not required. Public performance is required. Repeatable 3 times.*

**MUSC 024 Master Works Chorale 1.0 Unit**
*C-ID: MUS 180*
*Prerequisite**: Audition to assess ability of music reading and vocal skills. Students must demonstrate an adequate level of vocal proficiency to participate and perform with the Master Works Chorale. Audition required*
*General Education: SCC: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lab, 16-18 by arrangement*
A performing mixed choir (S.A.T.B.) that sings a variety of music, both historical and contemporary, with an emphasis on large choral forms such as oratorios and cantatas, accompanied by instruments. Designed for singers with previous choral experience. *Public performance required. Repeatable 3 times.*

**MUSC 025 Chamber Choir 1.0 Unit**
*C-ID: MUS 180*
*Prerequisite**: Audition required to assess ability of music reading and vocal skills. Students must demonstrate an adequate level of vocal proficiency to participate and perform with the Chamber Choir.*
*General Education: SCC: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lab, 16-18 lab by arrangement*
Advanced study and performance of choral works for the small ensemble. Public performance required. Highly recommended for music majors, especially voice majors. *Participation in public performances required. Field trips are required. Repeatable 3 times.*

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# MUSC - Music

**MUSC 026 Vocal Jazz Ensemble 1.0 Unit**
*C-ID: MUS 180*
*Prerequisite**: Ability to sing in a vocal jazz ensemble. Students must demonstrate an adequate level of proficiency singing in a cappella choral ensembles, reading music and a good concept of the vocal jazz ensemble idiom*
*General Education: SCC: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lab, 16-18 lab by arrangement*
The study and performance of choral works in the jazz idiom, including development of reading and improvisation skills. Vocalists work with a jazz rhythm section and instrumentalists. *Participation in public performance required. Repeatable 3 times.*

**MUSC 027 Elementary Piano Part I 1.0 Unit**
*Transferable to UC/CSU*
*Hours: 16-18 lecture, 16-18 lab*
An introduction to beginning piano techniques including hand position, posture, fingering technical exercises, note reading, sight reading, and performance of piano literature. Numerous examples are assigned to demonstrate the essentials of reading and counting skills, coupled with the presentation of major and minor scales, chords, and other fundamentals of piano playing. *No previous musical experience is needed.*

**MUSC 028 Elementary Piano Part II 1.0 Unit**
*Prerequisite: MUSC 027*
*Transferable to UC/CSU*
*Hours: 16-18 lecture, 16-18 lab*
A continuation of MUSC 027, this course expands on elementary piano techniques by exploring a progressive series of pieces and exercises that develop the reading skills and other concepts used in performance practice. Stresses the use of major and minor scales, block and broken chords, arpeggios in exercise form, sight reading, chromatic fingering, and performance.

**MUSC 029 Intermediate Piano Part I 1.0 Unit**
*Prerequisite**: MUSC 028*
*Transferable to UC/CSU*
*Hours: 16-18 lecture, 16-18 lab*
Presents the intermediate level of piano technique and literature. Emphasis is on interpretation, fingering, phrasing, technical studies, exercises, and performance. Sight reading and continued development through the mastery of progressive pieces enable the pianist to reach a greater overall skill level and confidence during performance.

**MUSC 030 Intermediate Piano Part II 1.0 Unit**
*Prerequisite**: MUSC 029*
*Transferable to UC/CSU*
*Hours: 16-18 lecture, 16-18 lab*
Presents more difficult techniques for the intermediate pianist. Emphasizes the culmination of reading skills, motor coordination, knowledge of harmony, exercises and fingering, overall interpretation, dynamics, attention to form, and advanced technical problems concerning performance of the literature. *Recommended for students seeking a working knowledge in piano, comparable to second year level in the literature.*

**MUSC 035A Beginning Voice I 1.0 Unit**
*Transferable to UC/CSU*
*Hours: 16-18 lecture, 16-18 lab*
Group work on the fundamental techniques of singing, including literature of traditional/folk, art, musical theater and popular classics. Includes analysis of individual problems and the opportunity for solo performance. *Recommended for voice majors and non majors.*

**MUSC 035B Beginning Voice II 1.0 Unit**
*Prerequisite**: MUSC 035A*
*Transferable to UC/CSU*
*Hours: 16-18 lecture, 16-18 lab*
A continuation of MUSIC 035A. Group work on the fundamental techniques of singing, including study of standard vocal literature for solo performance, with increased emphasis in developing vocal and performance skills.

**MUSC 036A Intermediate Voice I 1.0 Unit**
*Prerequisite**: MUSC 035B*
*Transferable to UC/CSU*
*Hours: 16-18 lecture, 16-18 lab*
A continuation of Music 035A & 035B with emphasis on the development of vocal technique and interpretation. Repertoire includes classical compositions from the English, Italian and German languages. Analysis of individual vocal problems and performance skills is included.

**MUSC 036B Intermediate Voice II 1.0 Unit**
*Prerequisite**: MUSC 036A*
*Transferable to UC/CSU*
*Hours: 16-18 lecture, 16-18 lab*
A continuation of Music 036A with emphasis on vocal technique and interpretation. Solo repertoire appropriate to intermediate level includes standard voice literature. Analysis of individual vocal problems and performance skills is included.

# MUSC - Music

**MUSC 038 Class Lessons in Beginning Guitar 1.5 Units**
*Transferable to UC/CSU*
*Hours: 16-18 lecture, 32-36 lab*
Presents the principles and techniques of fundamental guitar performance. The course stresses first position techniques, note reading, scales, fingerboard knowledge, chord positions, picking and strum techniques, and performance of selected musical literature appropriate to the beginning level. *NOTE: Combined enrollments in MUSC 038, 039 and 062 may not exceed 4 units.*

**MUSC 039 1.5 Units**
**Class Lessons in Intermediate Guitar**
*Prerequisite**: MUSC 038 or equivalent as assessed by instructor and ability to read simple guitar music*
*Transferable to UC/CSU*
*Hours: 16-18 lecture, 32-36 lab*
Presents the intermediate instruction level in guitar performance techniques and musical skill. The course covers 3rd and 5th positions, solo performance, musical notation exercise and application, musical interpretation and style, and intermediate literature. *NOTE: Combined enrollments in MUSC 038, 039 and 062 may not exceed 4 units.*

**MUSC 040A Applied Music I 0.5 Unit**
*C-ID: MUS 160*
*Corequisite: Student must be concurrently enrolled in a large performance ensemble (MUSC 009, 010, 011, 014, 015, 016, 017, 020, 021, 024, 025 or 026) AND in a music theory class (MUSC 001, 002, 003 or 004)*
*Prerequisite**: Audition: Student must meet the performance standards of an entering first semester college music major as determined by an entrance audition*
*Transferable to UC/CSU*
*Hours: 8-9 lab, 16-18 lab by arrangement*
This is the first course in a four-part series which focuses on the development of individual performance skills and solo and ensemble repertoire. It includes one-on-one or small group instrumental, composition, or vocal instruction eight hours per semester. It also includes eight hours per semester of solo performance, masterclasses, and a final juried performance. It also includes one hour monitored practice time per week. *This course is required for all traditional performance and jazz music majors. Students must be concurrently enrolled in a large performance ensemble and a music theory course. It is the first course in the four-part series required for the Associate Degree for Transfer.*

**MUSC 040B Applied Music II 0.5 Unit**
*C-ID: MUS 160*
*Corequisite: Student must be enrolled in a large performance ensemble (MUSC 009, 010, 014, 015, 016, 017, 020, 021, 024, 025, or 026) AND in a music theory class (MUSC 001, 002, 003, 004)*
*Prerequisite**: MUSC 040A; Audition: Students must meet the performance standards of an entering second-semester college traditional music major as determined by an entrance audition*
*Transferable to UC/CSU*
*Hours: 8-9 lab, 16-18 lab by arrangement*
This is the second course in a four-part series which focuses on the development of individual performance skills and solo and ensemble repertoire. It includes one-on-one or small group instrumental, composition, or vocal instruction eight hours per semester. It also includes eight hours per semester of solo performance, masterclasses, and a final juried performance. It also includes one hour monitored practice time per week. *This course is required for all traditional performance and jazz music majors. Students must be concurrently enrolled in a large performance ensemble and a music theory course. It is the second course in the four-part series required for the Associate Degree for Transfer.*

**MUSC 040C Applied Music III 0.5 Unit**
*C-ID: MUS 160*
*Corequisite: Student must be enrolled in a large performance ensemble (MUSC 009, 010, 014, 015, 016, 017, 018, 020, 021, 024, 025, or 026) AND in a music theory class (MUSC 001, 002, 003 or 004)*
*Prerequisite**: MUSC 040B; Audition: Student must meet the performance standards of an entering third-semester college traditional music major as determined by an entrance audition*
*Transferable to UC/CSU*
*Hours: 8-9 lab, 16-18 lab by arrangement*
This is the third course in a four-part series which focuses on the development of individual performance skills and solo and ensemble repertoire. It includes one-on-one or small group instrumental, composition, or vocal instruction eight hours per semester. It also includes eight hours per semester of solo performance, masterclasses, and a final juried performance. It also includes one hour monitored practice time per week. *This course is required for all traditional performance and jazz music majors. Students must be concurrently enrolled in a large performance ensemble and a music theory course. It is the third course in the four-part series required for the Music Associate Degree for Transfer.*

# MUSC - Music

**MUSC 040D Applied Music IV 0.5 Unit**
*C-ID: MUS 160*
*Corequisite: Student must be enrolled in a large performance ensemble (MUSC 009, 010, 014, 015, 016, 017, 018, 020, 021, 024, 025, or 026) AND in a music theory class (MUSC 001, 002, 003 or 004)*
*Prerequisite**: MUSC 040C; Audition: Student must meet the performance standards of an entering third-semester college traditional music major as determined by an entrance audition*
*Transferable to UC/CSU*
*Hours: 8-9 lab, 16-18 lab by arrangement*
This is the final course in a four-part series which focuses on the development of individual performance skills and solo and ensemble repertoire. It includes one-on-one or small group instrumental, composition, or vocal instruction eight hours per semester. It also includes eight hours per semester of solo performance, masterclasses, and a final juried performance. It also includes one hour monitored practice time per week. *This course is required for all traditional performance and jazz music majors. Students must be concurrently enrolled in a large performance ensemble and a music theory course. It is the final course in the four-part series required for the Music Associate Degree for Transfer.*

**MUSC 041A Music Majors Piano 1.0 Unit**
*Course Advisory: Ability to read and play piano music*
*Prerequisite: MUSC 027*
*Transferable to UC/CSU*
*Hours: 16-18 lecture, 16-18 lab*
Instruction, practice and application of the techniques of piano performance. Emphasis will be placed on a variety of keyboard skills including harmonic progressions and harmonization, scales, arpeggios, technical exercises, sight reading, and transposition. The course will also present musical analysis, performance strategies, suggested rehearsal techniques, independent coordination, and memorization. The class is specially designed to accompany the music major and therefore is very specific in harmonic understanding, theory, melodic development and usage, and piano practice.

**MUSC 041B Music Majors Piano II 1.0 Unit**
*Prerequisite**: MUSC 041A*
*Transferable to UC/CSU*
*Hours: 16-18 lecture, 16-18 lab*
Instruction, practice and application of the techniques of piano performance at the intermediate level designed for music majors. Emphasis will be placed on continuation of keyboard skills including simple and complex modulation, harmonic progressions using seventh chords and larger sonorities, all major and minor scales, exercises and drills, sight reading, rehearsal techniques, accompanying skills, arrangement and advanced ear-training. The class specifically relates to advanced theoretical concepts realized at the keyboard with a continued attention to performance.

**MUSC 045 History of Rap and Hip-Hop 3.0 Units**
*General Education: SCC: Area D; IGETC: Area 3A; CSU: Area C1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An in-depth exploration of the history of rap and hip-hop through its origins in African and Black-American oral traditions to its current standing as the preeminent popular musical genre in America. Students will be introduced to a myriad of artists, performers, and figures that helped shape this ever-expanding genre. Additionally, students will explore the racial, social, and cultural implications and controversies that have been prevalent throughout the genre's history. Finally, students will be introduced to an extensive list of musical examples that illustrate this history.

**MUSC 049 Music Honors 1.0 to 3.0 Units**
*Prerequisite**: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability*
*Transferable to CSU*
*Hours: 48-162 lab by arrangement*
An independent study course in selected musical area for sophomore students. The student works by arrangement with the instructor on outlined program of study. A contract between student and instructor which details the specific area of interest including goals and schedule for project completion is required. *Students may take this course up to the maximum number of units over multiple semesters.*

# MUSC - Music

**MUSC 051 Jazz and Popular Solo Voice 1.0 Unit**
*Prerequisite: MUSC 035A*
*Transferable to CSU*
*Hours: 16-18 lecture, 16-18 lab*
The study and performance of songs in the popular and jazz idiom. Areas covered will include musical phrasing, emotional expression, popular vocal styling, stage presence and the use of sound reinforcement systems. *This course requires public performance and/or field trips.*

**MUSC 052 Sound Recording 2.0 Units**
*Transferable to CSU*
*Hours: 16-18 lecture, 48-54 lab*
Designed for students interested in recording audio. Development of recorded performances in the studio environment. Emphasis on acoustics, vocal and instrumental recording requirements, recording control surface management, microphone usage techniques, organization and supervision of a tracking session, editing and mixdown, mastering and promotion. Particular attention is given to the "hands-on" experience in sound recording engineering and the overall audio recording process, including engineering, production, musical arrangement, mixdown, and studio demeanor.

**MUSC 053 Advanced Sound Recording 2.0 Units**
*Prerequisite**: MUSC 052*
*Transferable to CSU*
*Hours: 16-18 lecture, 48-54 lab*
A course in advanced recording techniques with particular attention given to hands-on techniques

**MUSC 055 3.0 Units**
**Introduction to Jazz Improvisation**
*Course Advisory: Knowledge of music fundamentals and basic instrumental skills.*
*Transferable to CSU*
*Hours: 32-36 lecture, 16-18 lab, 16-18 lab by arrangement.*
The techniques and literature of improvisation including application of scales, modes, harmonic progressions, solo shape, form, and dynamic, rhythmic and melodic development and interpretation of concepts and materials in the jazz style. Provides development and understanding of these techniques in the occupational areas of music through the concepts and performance of improvisation.

**MUSC 056 Jazz Improvisational Ensemble 3.0 Units**
*Course Advisory: MUSC 055*
*Transferable to CSU*
*Hours: 32-36 lecture, 16-18 lab, 16-18 lab by arrangement*
Presents the principles and techniques of improvisational materials, combo performance, individual solo skills, advanced playing concepts, group dynamics, and increased performance ability. The class will perform a wide variety of arrangements and the overall performance standards are directed to feature individual soloists. Provides the occupational musician with an opportunity to develop confidence and advanced skills for performance in the ensemble. *Repeatable 3 times.*

**MUSC 060 Sound Recording Lab 1.0 to 4.0 Units**
*Prerequisite: MUSC 052 or MUSC 067A*
*Corequisite: MUSC 053 and MUSC 067B*
*Transferable to CSU*
*Hours: 48-216 lab*
Introduces or further develops recording skills through practical application of techniques learned in related courses. The course is designed to allow recording students additional time outside of other classes to work on sound recording projects. *Course may be taken up to the maximum number of units over multiple semesters.*

**MUSC 061 2.0 Units**
**MIDI and Computer Music Sequencing And Scoring**
*Course Advisory: MUSC 027*
*Transferable to CSU*
*Hours: 16-18 lecture, 48-54 lab*
An introduction to MIDI (Musical Instrument Digital Interface), and the hardware and software components of music sequencing and scoring. The course content will include "hands on" familiarization with the computer, practical use of sequencing software, and an understanding of MIDI terminology.

**MUSC 066A 1.5 Units**
**Advanced Sound Recording - Signal Processing**
*Prerequisite**: MUSC 052*
*Transferable to CSU*
*Hours: 8-9 lecture, 48-54 lab*
This course is one in a series of Advanced Sound Recording electives and continues building upon MUSC 052 skills, focusing on treatment of recorded audio files (signal processing), including applying reverberation, compression, equalization. This course is designed for students particularly interested in mixing audio. *In order to take the course online, students will be required to have access to recording software (Pro-Tools) and hardware.*

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# MUSC - Music

**MUSC 066B** **1.5 Units**
**Advanced Sound Recording - Microphone Technique**
*Prerequisite**: MUSC 052*
*Transferable to CSU*
*Hours: 16-18 lecture, 48-54 lab*
This course is one in a series of Advanced Sound Recording electives and continues building upon MUSC 052 skills, focusing on understanding microphone construction, operating principles and uses. This course is designed for students particularly interested in microphone design and placement technique.

**MUSC 066C** **1.5 Units**
**Advanced Sound Recording - Mixing and Mastering**
*Prerequisite**: MUSC 052*
*Transferable to CSU*
*Hours: 8-9 lecture, 48-54 lab*
Continues, building upon MUSC 052 skills, focusing on mixing and mastering recorded music. This course is designed for students particularly interested in balancing audio that has been recorded and finalizing it in preparation for duplication. None

**MUSC 066D** **1.5 Units**
**Advanced Sound Recording - Home Studio Recording**
*Prerequisite**: MUSC 052*
*Transferable to CSU*
*Hours: 8-9 lecture, 48-54 lab*
This course is one in a series of Advanced Sound Recording electives and continues, building upon MUSC 052 skills, focusing on learning how to adapt an existing home to accommodate a small recording studio. This course is designed for students particularly interested recording in a home studio.

**MUSC 066E** **1.5 Units**
**Advanced Sound Recording - Voice Over Recording**
*Prerequisite**: MUSC 052*
*Transferable to CSU*
*Hours: 8-9 lecture, 48-54 lab*
This course focuses on recording voice over. This course is designed for students particularly interested in learning to record speech for radio, podcast, live event, game design, and ADR for film.

**MUSC 066F** **1.5 Units**
**Advanced Sound Recording - Sound Design and Foley**
*Prerequisite**: MUSC 052*
*Transferable to CSU*
*Hours: 8-9 lecture, 48-54 lab*
This course is one in a series of Advanced Sound Recording courses, focusing on learning how to physically design and edit new sounds, as well as Foley. This course is designed for students particularly interested in recording for game audio, podcasts, and film/video. Off-campus *Field trip may be required*.

**MUSC 066G** **1.5 Units**
**Advanced Sound Recording - Sound to Picture Project**
*Corequisite: MUSC 066F*
*Prerequisite: MUSC 066A, MUSC 066C, MUSC 066E*
*Transferable to CSU*
*Hours: 8-9 lecture, 48-54 lab*
This course is the culmination of a series of Advanced Sound Recording electives and continues building upon MUSC 052 skills, as well as MUSC 066A-D. The class focuses on audio post production for film, including practical application of recording, mixing, and editing skills. This course is designed for students particularly interested in applying recording editing skills in real-world situations for sound to picture. Students will complete all aspects of audio post production for a scene from a movie/show or a movie/show trailer.

**MUSC 067A Introduction to Pro Tools** **1.5 Units**
*Course Advisory: MUSC 052*
*Hours: 8-9 lecture, 48-54 lab*
This course covers basic Pro Tools principles. It provides everything students need to complete a Pro Tools project-from initial set up to final mixdown. This course is an introduction to AVID's Pro Tools digital audio workstation software application. Basic Pro Tools principles, including how to complete a Pro Tools project from initial set up to final mixdown are covered. It includes how to record, edit, and mix music and Musical Instrument Digital Interface (MIDI) tracks within the Pro Tools application. In order to take the course online, students will be required to have access to recording software (Pro-Tools) and hardware. *This course is the first in a series of four courses leading to certification as a Pro Tools Operator.*

# MUSC - Music

**MUSC 067B Pro Tools Production 1.5 Units**
*Hours: 8-9 lecture, 48-54 lab*
This course provides a more detailed look at the Pro Tools system above and beyond the knowledge gained in MUSC 067A course. It covers all the key concepts and skills needed to operate a Pro Tools system at the user level. This is an intermediate course in Digidesign's Pro Tools digital audio workstation hardware and software application. Concepts and skills needed to operate large sessions in a project studio environment are covered. It includes managing large track counts, multiple channels of simultaneous inputs and outputs, and the use of specialized plug-ins for specific music and post-production tasks. This course is the second in a series of four courses leading to certification as a Pro Tools Operator. *In order to take course online, students will be required to have access to recording software (Pro-Tools) and hardware.*

**MUSC 071 Business of Music I 3.0 Units**
*Transferable to CSU*
*Hours: 48-54 lecture*
This course covers the processes of the music industry including record contracts as well as the responsibilities of record producers, agents, managers, and performing artists.

**MUSC 072 Business of Music II 3.0 Units**
*Transferable to CSU*
*Hours: 48-54 lecture*
This course is one in a series of Music Industry core courses, and continues building upon MUSC 071 skills, focusing on the duties of attorneys, publishers, and radio stations regarding musical and financial matters. The course also defines and analyzes publishing agreements, merchandising contracts, trademark and servicemark points, as well as radio and record- industry relations and sales and distribution.

**MUSC 073 Artist Management 3.0 Units**
*Transferable to CSU*
*Hours: 48-54 lecture*
This course covers the definitions, duties, and agreements of artist management. Topics include the functions of a personal manager, guidelines to career planning, choosing managers and clients, record company negotiations, and selecting other team players. It also analyzes the personal manager agreement and how to organize an artists tour.

**MUSC 074 Music Promotion 3.0 Units**
*Transferable to CSU*
*Hours: 48-54 lecture*
The process of music promotion. Topics include definitions of promotion, developing media/industry fan lists, and assembling a promotion packet. The course also discusses current internet strategies and new technologies developed for promotion. In addition, a campaign for album release and distribution is discussed and planned. *Field trips may be required.*

# Nursing

## Registered Nursing

*Associate in Science Degree*

**Program Description**

The Registered Nursing Program at Solano Community College is a 2-year Associate Degree Program fully approved by the CA Board of Registered Nursing and is subject to its regulations regarding the education and training of nurses. Successful completion of the program qualifies the student to apply to the National Council Licensing Examination (NCLEX-RN) to become a Registered Nurse. The practice of nursing requires knowledge of the biological, behavioral, and physical sciences, as well as knowledge of, and the ability to speak, to read, and to write the English language proficiently. This program follows the policy of non-discrimination set forth by the Governing Board of Solano Community College.

The Associate in Science Degree is awarded upon successful completion of the major and general education requirements. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Registered Nursing Associate Degree will be able to:

1. Synthesize principles of the nursing process and critical thinking- utilizing memory and recall- to assist individuals, families and communities to achieve positive adaptation to change in health or a peaceful death.
2. Integrate technology and evidence-based concepts of nursing practice across the health care continuum to ensure quality patient centered care.
3. Educate patients, families, and communities in health promotion behaviors that increase health and wellness and decrease disease and illness in populations and communities

**Retention in Program:**

1. Students are required to undergo criminal background checks and drug screens. The School of Health Sciences may be unable to place students in a clinical setting if they have a positive criminal background check or drug screen; therefore, the student may be dropped from the nursing program.
2. If a student's conduct poses potential harm to the well-being of clients or is disruptive to the classroom or lab environment, the student may be dropped from the nursing program.
3. If a student's physical or emotional health appears to be such that they cannot meet the objectives of the program in nursing, the student may be asked to drop the nursing program.
4. In order to remain in the program and to graduate, the student must maintain a minimum grade of C in the theory and the clinical portions of the nursing program. The student must maintain a median grade of 75% or higher for each course.
5. Maintain current CPR, TB screening, clear criminal background check and drug screen.

*In accordance with state law, the California Board of Registered Nursing (BRN) may deny licensure to an individual for crimes substantially related to the practice of nursing. Upon acceptance to the nursing program, any student who has had a conviction related to sex crimes, drug crimes (including DUI) and crimes of violence may need to contact the BRN regarding his/her status.*

### REQUIRED COURSES

| **First Semester Courses (First Year)** | **Units** |
|---|---|
| NURS 071A Foundations of Nursing I* | 6 |
| NURS 071B Foundations of Nursing II* | 6 |
| NURS 071S Nursing Simulation Skills Lab I | 2 |

| **Second Semester Courses (First Year)** | **Units** |
|---|---|
| NURS 072A Medical/Surgical I and Geriatrics* | 5 |
| NURS 072B Maternal/Neonatal Nursing* | 5 |
| NURS 072S Nursing Skills Lab II | 2 |

| **Third Semester Courses (Second Year)** | **Units** |
|---|---|
| NURS 073 Issues and Leadership in Health Care Today | 2 |
| NURS 073A Medical/Surgical II* | 5 |
| NURS 073B Psychiatric and Mental Health Nursing* | 5 |
| NURS 073S Nursing Simulation and Skills Lab III | 1 |

| **Fourth Semester Courses (Second Year)** | **Units** |
|---|---|
| NURS 074A Medical/Surgical III* | 6 |
| NURS 074B Pediatric Nursing* | 5 |
| NURS 074S Nursing Simulation and Skills Lab IV | 1 |

**Concurrent enrollment in corresponding Skills Lab required.*

# Nursing

## REQUIREMENTS FOR ADMISSION TO THE PROGAM

1. Graduation from an accredited high school in the United States or successful completion of the General Education Development (GED) or California High School Proficiency Exam (CHSPE) per requirements of the Nurse Practice Act, Title 16, California Code of Regulations, Section 1412, prior to time of application.
   - Applicants with a high school diploma from a school outside the United States must have transcripts evaluated by a National Association of Credential Evaluation Service (NACES) approved independent agency.
   - Applicants who possess an Associate or Arts/ Associate of Science degree or higher from a regionally accredited college in the U.S. are exempt from the educational requirements stated above.
   - Applicants who have attended college outside the United States must have transcripts evaluated by a NACES approved independent agency, demonstrating equivalency to an AA/AS degree or higher from a U.S. regionally accredited college.
2. A Composite Score of 73% or greater. This is calculated using the applicant's College GPA, Core Biology GPA, English GPA and the applicant's Core Biology Repetitions (This includes grades of D or less and W's on the applicant's transcript).
3. Completion of Registered Nursing Program Prerequisites

## REGISTERED NURSING PROGRAM PREREQUISITES

*A minimum grade of C in the following pre-major and general education courses*

BIO 004 Human Anatomy..... 4
BIO 005 Human Physiology..... 4
BIO 014 Principles of Microbiology ..... 4
ENGL 001 College Composition..... 4
ENGL 001E College Composition for Non-native English Speakers..... 5
ENGL 001X College Composition with Support..... 5
NUTR 010 Nutrition..... 3
NURS 052 Pharmacology for Nursing..... 3
PSYC 001 Introduction to Psychology..... 3
One course Developmental..... 3
One course from Critical Thinking..... 3-4

**Developmental (select one course)..... Units**
CDFS 070 Lifespan Human Development..... 3
PSYC 006 Developmental Psychology..... 3

**Critical Thinking: (select one course)** .....**Units**
COMM 001 Introduction to Public Speaking..... 3
COMM 002 Fundamentals of Persuasive Speaking..... 3
COMM 006 Argumentation and Debate ..... 3
ENGL 002 Critical Thinking and Writing About Literature ..... 4
ENGL 004 Critical Thinking and Composition: Language in Context ..... 4

*Complete all general education requirements (SCC GE, IGETC, or CSU) or hold an Associates or Bachelors degree from a regionally accredited institution in the United States.*

4. Students are required to take the "Test of Essential Academic Skills (TEAS)" developed by the Assessment Technologies Institute. A minimum passing composite score of 62% is required within the first two (2) attempts. Further information can be found on the ***www.atitesting.com*** website regarding TEAS preparation, registration and testing.

5. First-time applicants are strongly encouraged to meet with an SCC counselor before August of the application year to obtain a *Nursing Pre-Major and General Education Requirement Check Sheet* and document completion of all eligibility requirements. Call (707) 864-7101 or go online to schedule an appointment.

*For additional Application and Acceptance Information go to https://welcome.solano.edu/nursing/*

# Nursing

## LVN to RN Program

The policies and procedures for the Solano Community College LVN to RN program are currently under revision. Interested individuals can obtain more information and future updates at:

***http://www.solano.edu/health/disciplines#mobility***

***LVN to RN Thirty-Unit Option***

**Thirty-Unit Option**
By choosing this option students would:
- complete a total of 29-30 units.
- not be a graduate of an Associate Degree Program.
- not be a graduate of the Solano Community College Nursing Program and may not wear the school pin.
- be eligible for licensure in California and may not be eligible for licensure in other states.

**Prerequisites**
- BIO 004 - Human Anatomy (5 units)
- BIO 005 - Introductory Physiology (5 units)
- BIO 014 - Principles of Microbiology (4 units)

Additional information will be posted on the Program website:
***http://www.solano.edu/health/disciplines#mobility***

Please note: LVNs wishing to become RNs are also eligible and encouraged to apply to the generic RN Program or A.D.N. track where matriculation would begin during the 1st semester with A.D.N. cohort at Solano Community College. Interested individuals can obtain more information about the A.D.N. program at:
***http://www.solano.edu/health/disciplines#nursing***

## Certified Nursing Assistant

*Job-Direct Low Unit Certificate*

| **Required Courses** | **Units** |
|---|---|
| NURS 103 Certified Nursing Assistant | 6.5 |
| **Total Units** | **6.5** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# NURS - Nursing

**NURS 052 Pharmacology for Nursing 3.0 Units**
*Prerequisite**: BIO 005*
*Course Advisory: Basic computer navigation skills and frequent internet access is required*
*Transferable to CSU*
*Hours: 48-54 lecture*
Nursing or Pre-nursing Students. Designed to focus on nursing pharmacology by presenting a firm theoretical foundation. The course presents general principles, theories, and facts about medicinal agents. General characteristics of major classifications of medications are discussed. Specific information regarding action, dosage, side effects, adverse reactions and contraindications of selected medications within each classification is addressed. Practical information is presented on how the nursing process is integrated with pharmacology. Specific drug information is discussed in relation to assessment, client monitoring, interventions, client education, and evaluation of safe and effective drug therapy.

**NURS 065 Role Transition in Practice 2.5 Units**
*Corequisite: NURS 064*
*Prerequisite**: NURS 063*
*Course Advisory: Basic computer navigation skills and frequent internet access is required.*
*Transferable to CSU*
*Hours: 120-135 lab*
The final course in the nursing sequence. The focus of this course is on nursing care and first level management / leadership skills in caring for groups of hospitalized patients. Emphasis is placed on team management skills in acute care settings. The registered nurse preceptor directly supervises the student under the guidance of the nursing faculty liaison. Professional development skills, as well as current issues in nursing, are applied. This course focuses on managing groups of patients with respect to the individual's cultural / religious beliefs related to wellness, illness and health care practice. Clinical application of both previously learned theory and skills are applied in various healthcare agencies.

**NURS 071A Foundations of Nursing I 6.0 Units**
*Prerequisite**: Admission to the Registered Nursing Program*
*Corequisite: NURS 071S*
*Transferable to CSU*
*Hours: 64-72 lecture, 96-108 lab*
Introduction to the foundational concepts that guide nursing practice for safe, humanistic, patient-centered care to a diverse patient population across the lifespan. Additional concepts on which the curriculum is built including legal and ethical responsibilities of the nurse, caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice are also introduced. Concepts related to the individual patient that are used throughout the nursing program are defined with select concepts as the focus for patient care. Application of knowledge and skills occurs in a variety of clinical settings providing care to stable adult patients with common health alterations. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms, and nursing equipment.

**NURS 071B Foundations of Nursing II 6.0 Units**
*Prerequisite**: NURS 071A*
*Corequisite: NURS 071S*
*Transferable to CSU*
*Hours: 56-63 lecture, 120-135 lab*
Introduction to the foundational concepts that guide nursing practice for safe, humanistic, patient-centered care to a diverse patient population. Additional concepts on which the curriculum is built including legal and ethical responsibilities of the nurse, caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice are also introduced. Concepts related to the individual patient that are used throughout the nursing program are defined with select concepts as the focus for patient care. Application of knowledge and skills occurs in a variety of clinical settings providing care to stable adult patients with common health alterations. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

# NURS - Nursing

**NURS 071S Nursing Simulation and Skills Lab I 2.0 Units**
*Prerequisite**: Admission to Registered Nursing Program*
*Corequisite: NURS 071A and NURS 071B*
*Transferable to CSU*
*Hours: 16-18 lecture, 48-54 lab*
Presents the basic skills and simulations used in nursing practice for safe, humanistic, patient-centered care to a diverse patient population. The student will learn and practice these psychomotor skills in preparation for application in the clinical setting. As the skills are learned, consideration is given to the legal and ethical responsibilities of the nurse, caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills lab and the simulation lab. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/ supplies, uniforms and nursing equipment.

**NURS 072A Medical/Surgical I and Geriatrics 5.0 Units**
*Prerequisite**: NURS 071A, NURS 071B and a grade of Pass in NURS 071S*
*Corequisite: NURS 072S*
*Transferable to CSU*
*Hours: 40-45 lecture, 120-135 lab*
Applies the foundational concepts of nursing practice introduced in NURS 071A & 071B. This course applies safe, humanistic, patient-centered care to a diverse patient population focusing on wellness and acute conditions of patients on the medical/surgical units and the elderly. Concepts related to the individual patient introduced in NURS 071A and 071B are applied with additional select concepts that focus on care of patients on the medical/ surgical units and the elderly. Application of knowledge and skills occurs in a variety of clinical settings providing care to the elderly and adults experiencing acute conditions requiring medical/surgical interventions. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

**NURS 072B Maternal-Newborn Nursing 5.0 Units**
*Prerequisite**: NURS 071B and NURS 071S*
*Corequisite: NURS 072S. Applies the foundational concepts of nursing practice introduced in NURS 071A & 071B*
*Transferable to CSU*
*Hours: 40-45 lecture, 120-135 lab*
Applies safe, humanistic, patient-centered care to a diverse patient population focusing on wellness and acute conditions of patients on the Maternal/Child Units. Concepts related to the individual patient introduced in NURS 071A and 071B are applied with additional select concepts that focus on care of patients on the maternal/child. Application of knowledge and skills occurs in a variety of clinical settings providing care to the childbearing family experiencing conditions requiring interventions. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

**NURS 072S 2.0 Units**
**Nursing Simulation and Skills Lab II**
*Prerequisite**: NURS 071B and a grade of Pass in NURS 071S*
*Corequisite: NURS 071A and NURS 071B*
*Transferable to CSU*
*Hours: 16-18 lecture, 48-54 lab*
Building on the content presented in Nursing Skills Lab I with a focus on developmentally and culturally appropriate therapeutic interventions in the care of the childbearing family, patients requiring medical/surgical interventions, and the elderly. Includes application of the concepts of caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills lab and the simulation lab. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

# NURS - Nursing

**NURS 073** **2.0 Units**

**Issues and Leadership in Health Care Today**

*Prerequisite**: NURS 072A, NURS 072B; and a grade of Pass in NURS 072S*
*Corequisite: NURS 073S*
*Transferable to CSU*
*Hours: 32-36 lecture*

Facilitates the nursing student's entry into the profession of nursing. Topics include current issues, trends and leadership theories in the registered nurse's scope of practice in an ever-changing health care delivery system. Included is the delineation of the major functions of professional nursing organizations, accountability in nursing practice (quality improvement and risk management), identification of socio-political factors as well as leadership and management issues influencing professional nursing practice and their nursing implications. Legal and ethical concepts and responsibilities related to registered nursing practice are further considered. This is a non-clinical course. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents.

**NURS 073A Medical/Surgical II** **5.0 Units**

*Prerequisite**: NURS 072A and NURS 072B; and a grade of Pass in NURS 072S*
*Corequisite: NURS 073S*
*Transferable to CSU*
*Hours: 40-45 lecture, 120-135 lab*

Applies the concepts of nursing practice presented in NURS 071 and 072 and focuses on additional concepts for safe, humanistic, patient-centered care to a diverse patient population focusing on wellness and acute (stable and unstable) and chronic conditions of patients requiring medical/surgical interventions. Application of knowledge and skills occurs in a variety of clinical settings with an emphasis on expanding the student's ability to focus on the legal and ethical responsibilities of the nurse, caring, critical thinking/clinical reasoning, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

**NURS 073B** **5.0 Units**

**Psychiatric and Mental Health Nursing**

*Prerequisite**: NURS 072A and NURS 072B*
*Corequisite: NURS 073S*
*Transferable to CSU*
*Hours: 40-45 lecture, 120-135 lab*

Applies the concepts of nursing practice presented in NURS 071 & 072 A & B and focuses on additional concepts for safe, humanistic, patient-centered care to a diverse patient population focusing on acute and chronic conditions of patients requiring mental health interventions. The focus of this course is to provide students opportunities to evaluate and address the biopsychosocial needs of the psychiatric patient. Application of knowledge and skills occurs in a variety of clinical settings with an emphasis on expanding the student's ability to focus on the legal and ethical responsibilities of the nurse, caring, critical thinking/clinical reasoning, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

**NURS 073S** **1.0 Unit**

**Nursing Simulation and Skills Lab III**

*Prerequisite**: NURS 072A and NURS 072B; and a grade of Pass in NURS 072S*
*Corequisite: NURS 073A and NURS 073B*
*Transferable to CSU*
*Hours: 8-9 lecture, 24-27 lab*

Builds on the content presented in NURS 071S and 072S with a focus on developmentally and culturally appropriate therapeutic interventions in the care of patients with acute (stable and unstable) and chronic medical and psychiatric conditions requiring medical/surgical and mental health interventions. Includes application of the concepts of caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills lab and the simulation lab. Internet Access required. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

# NURS - Nursing

**NURS 074A Medical/Surgical III 6.0 Units**
*Prerequisite**: NURS 073A and NURS 073B; and a grade of Pass in NURS 073S*
*Corequisite: NURS 074S*
*Transferable to CSU*
*Hours: 48-54 lecture, 360-405 lab*
Applies the concepts of nursing practice presented in NURS 071, 072 & 073 A& B then focuses on additional concepts for safe, humanistic, patient-centered care to a diverse patient population focusing on wellness and patients with acute, complex conditions requiring medical/surgical interventions. The focus of NURS 074A is to provide students opportunities to integrate all program concepts to the care of adult patients with complex healthcare needs. Application of knowledge and skills occurs in a variety of clinical settings. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

**NURS 074B Pediatric Nursing 5.0 Units**
*Prerequisite**: NURS 073A and NURS 073B; and a grade of Pass in NURS 073S*
*Corequisite: NURS 074S*
*Transferable to CSU*
*Hours: 40-45 lecture, 120-135 lab*
Applies the concepts of nursing practice presented in NURS 071, 072, and 073 A&B then focuses on additional concepts for safe, humanistic, patient-centered care to a diverse patient population focusing on wellness for a pediatric patient. This course also applies nursing concepts to the care of children. The focus is to provide students opportunities to integrate all program concepts to the care of pediatric patients. Application of knowledge and skills occurs in a variety of clinical settings. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

**NURS 074S 1.0 Unit**
**Nursing Simulation and Skills Lab IV**
*Prerequisite**: NURS 073A and NURS 073B; and a grade of Pass in NURS 073S*
*Corequistie: NURS 074A and NURS 074B*
*Transferable to CSU*
*Hours: 8-9 lecture, 24-27 lab*
Builds on the content presented in NURS 071S, 072S & 073S with a focus on developmentally and culturally appropriate therapeutic interventions in the care of patients with acute and chronic complex conditions requiring medical/surgical interventions and the care of children. Includes application of the concepts of caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills lab and the simulation lab. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

**NURS 103 Certified Nursing Assistant 6.5 Units**
*Prerequisite**: Applicants must be at least 16 years old*
*Non-transferable to UC or CSU*
*Hours: 64-72 lecture, 128-144 lab*
Basic computer navigation skills and frequent internet access is required. Prepares the student to function in the role of Certified Nursing Assistant in the acute care, long-term care, and home health settings. Students must apply to the CNA program through Solano Community College's Office of Admissions and Records, as well as attend a mandatory information session prior to the beginning of class.

**NURS 104 Home Health Aide 2.0 Units**
*Prerequisite**: NURS 103 (may enroll concurrently)*
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture, 24-27 lab.*
An extension of the nursing assistant training. It is a didactic model that addresses the transition of skills from an institutional environment to the home setting. The course consists of nine modules, 20 hours classroom instruction including use of state curriculum, lectures, videos and discussion.

# NURS - Nursing

**NURS 105 Acute Care Nursing Assistant 2.0 Units**

*Prerequisite**: NURS 103*
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture, 30-33.75 lab*

A focus on patients with acute illness or short-term illness or injury. This course prepares current CNAs to work in an emergency room or other short-term care facility, assisting registered nurses (RNs) and other health care personnel. Students refine skills learned in the general or long-term care CNA courses, such as measuring vital signs. Certified nursing assistants in this class become skilled at observing patients for discomfort, pain and learning how to apply basic knowledge and skills to delivery quality patient care. The CNA acute care curriculum also covers anatomy and physiology, infection control and safety procedures in an acute care setting. This course is typically taken by current CNAs. It is commonly referred to as a CNA level 2 course. The nurse assistant is an important member of the health care team. The nurse assistant, under the direct supervision of licensed nursing personnel, provides direct care to the resident; promotes comfort measures, and collects, records and reports data.

**NURS 111 Medical Terminology 3.0 Units**

*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*

Basic computer navigation skills and frequent internet access is required. A study of the language of medicine. The student will develop a working knowledge of terms, word roots, and abbreviations related to structure and functioning of the systems of the body as they pertain to medical practice.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Nutrition

## Associate in Science in Nutrition for Transfer (A.S.-T)

**Program Description**
This program is designed to meet the general education requirements at California State Universities and prepare students for a Bachelor of Science degree in Nutrition and Food Science. The program will prepare individuals to integrate and apply the principles of the food and nutrition sciences, human behavior, and the biomedical sciences to design and manage effective nutrition programs. Students will learn how to utilize food for human growth and development in a variety of settings including health care organizations, food service operations, business and industry (product development, marketing, consulting), education and research, health promotion and private practice counseling.

The Associate in Science in Nutrition for Transfer is designed to prepare students for transfer into the CSU system to complete a Bachelor of Science in Nutrition. Students who earn the Associate in Science in Nutrition for Transfer will receive guaranteed priority admission to the CSU system, but not to a particular campus or major. Once admitted the student will only be required to complete 60 additional upper-division units to qualify for a BA degree.

To earn the Associate in Science in Nutrition for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Upon completion of the A.S.-T in Nutrition students will be able to:

1. Explain the principles of nutrition and its effect on health and wellness.
2. Analyze a diet for adequacy, balance, and moderation.
3. Demonstrate an understanding of the relationships between chemistry, biology and nutrition

| **REQUIRED COURSES** | **Units** |
|---|---|
| BIO 014 Principles of Microbiology | 4 |
| NUTR 010 Nutrition | 3 |
| PSYC 001 Introduction to Psychology | 3 |
| One or Two courses from List A | 5-10 |
| One or Two courses from List B** | 4-10 |
| One course from List C | 3 |
| **Required Major Total Units** | **27-28** |

| **List A:** (select one to two courses) | **Units** |
|---|---|
| CHEM 001 General Chemistry I | 5 |
| or | |
| CHEM 001 General Chemistry I | 5 |
| and | |
| CHEM 002 General Chemistry II | 5 |

| **List B:** (select one or two courses**) | **Units** |
|---|---|
| BIO 004 Human Anatomy | 5 |
| or | |
| BIO 005 Human Physiology | 5 |
| CHEM 002 General Chemistry II | 5 |
| CHEM 003 Organic Chemistry | 5 |
| MATH 011 Elementary Statistics | 4 |

| **List C:** | **Units** |
|---|---|
| ANTH 002 Cultural Anthropology | 3 |
| PSYC 002 Biological Psychology | 3 |
| SOC 001 Introduction to Sociology | 3 |

**select one course if CHEM 001 + CHEM 002 is completed in List A or select two courses if only CHEM 001 is completed in List A.

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# NUTR - Nutrition

**NUTR 010 Nutrition 3.0 Units**
*C-ID: NUTR 110*
*General Education: SCC: Area C; CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Study of the scientific concepts of human nutrition. Essential nutrients, functions, chemical compositions of foods and their utilization in the body will be covered. The course will emphasize topics such as weight loss, sports nutrition, food safety, the diet-disease relationship, global nutrition, and analysis of special nutritional requirements during the lifecycle among others. Students utilize computer technology and nutritional assessment methods to evaluate personal dietary habits.

**NUTR 012 0.5 to 2.0 Units**
**Evaluating Current Topics in Nutrition**
*Transferable to CSU*
*Hours: 8-36 lecture*
Methods of evaluating current nutritional topics, determining reliable and unreliable sources of information and judging validity of experimental design. This course provides opportunities to study current, controversial topics in nutrition. Course topics include, but are not limited to, vitamin and mineral supplements, weight loss fads, phytochemicals and foods as medicine.

**NUTR 054 Child Health, Safety, and Nutrition 3.0 Units**
*Course Equivalent: CDFS 054*
*Course Advisory: CDFS 038; CDFS 062*
*General Education: SCC: Area E; CSU: Area E*
*Transferable to CSU*
*Hours: 48-54 lecture*
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 on integrating the concepts into everyday planning and program development for all children.

## Soft Skills for Technicians

*Job-Direct Low Unit Certificate*

| **REQUIRED COURSES** | **Units** |
|---|---|
| OCED 070 Occupational Soft Skills | 1.5 |
| OCED 071 Occupational Portfolio Development | 1.5 |
| IT 140 Industrial Materials | 3 |
| IT 151 Vocational Mathematics | 3 |
| 3 units from List A | 3 |
| **Total Units** | **12** |

| **List A: (select 3 units)** | **Units** |
|---|---|
| ATEC 070 Automotive Fundamentals | 3 |
| CIS 001 Introduction to Computer Science | 3 |
| CIS 050 Microcomputer Applications | 3 |
| DRFT 079 Blueprint Reading | 3 |
| IT 050 Alternative Energy Technologies | 3 |
| IT 101 Introduction to Mechatronics | 3 |
| IT 110 Modern Welding | 3 |
| OCED 090 Occupational Work Experience | 3 |
| OCED 091 General Work Experience | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# OCED - Occupational Education

**OCED 070 Occupational Soft Skills 1.5 Units**

*Transferable to CSU*
*Hours: 24-27 lecture*

Covers the critical tools to help occupational students develop the employability or soft skills needed for a smooth transition to the work force based on the Secretary's Commission on Achieving Necessary Skills (SCANS). Topics include practical elements required to meet employer expectations, create cooperative co-worker interactions and development of positive personal characteristics. *This is not a work experience course.*

**OCED 071 1.5 Units**

**Occupational Portfolio Development**

*Transferable to CSU*
*Hours: 24-27 lecture*

Students will identify personal strengths and weaknesses in key skill areas and develop a plan for obtaining the skills they need. Professional and educational samples will be collected, categorized, and evaluated. Students will analyze how the career portfolio can be used as a tool for the job search as well as career advancement. An electronic career portfolio will be completed by the end of this course. Students will be learning a portfolio development software tool (Portfolium or similar tool) and will be required to have and be able to upload documentation of work and educational achievements.

**OCED 090 1.0 to 16.0 Units**

**Occupational Work Experience**

*Corequisite: Student must be working (paid or unpaid) from 5 to 40 hours per week for a licensed business for a total of 75 hours per unit for paid work and 60 hours per unit for unpaid work. Duties must be directly related to student's declared major.*

*Transferable to CSU*

Supervised employment extending classroom-based occupational learning at an on-the-job learning station related to the student's educational or occupational goal. Student must be working (paid or unpaid) in a job, volunteer, or internship position for a legal business or nonprofit agency and can identify a workplace supervisor to assist in identifying and evaluating workplace semester goals. Student must remain employed for the duration of the semester. Work must be directly related to the declared major. Students will attend a weekly coordination seminar and develop job-oriented objectives at their worksite. Students will complete Title 5 Education Code Documents (Agreement, Application, Learning Objectives, Timesheet, Supervisor's Evaluation) that document the student's progress and hours spent in the workplace; and development of workplace soft skills and employability skills relevant to the 21st Century Workplace. Learning objectives will be developed in collaboration between the student, employer, and Work Experience instructor to best meet the student's level of learning. 1 unit of credit may be earned for each 75 hours paid or 60 hours unpaid work during the semester to a maximum of 8 units per semester. Students wishing to continue OCED 090 in subsequent semesters must contact the Work Experience Coordinator for enrollment assistance. Financial Aid and Veterans may have other limits on the number of times this course may be taken. Up to 12 units of Occupational Work Experience may transfer to CSU as elective credits. This course may not be taken concurrently with any other work experience, fieldwork, or practicum course. Course may be taken up to the maximum number of units over multiple semesters (total of all work experience courses cannot exceed 16 units).

# OCED - Occupational Education

**OCED 091 General Work Experience 1.0 to 16.0 Units**

*Corequisite: Student must be working from 5-30 hours or more per week for a licensed business for a semester total of 75 hours per unit for paid work and 60 hours per unit for unpaid work. Job does not need to be related to major.*

*Transferable to CSU*

Supervised employment that is intended to assist students in acquiring desirable work habits, attitudes, and career awareness. The student must be working (paid or unpaid) for a legal business or nonprofit agency and can identify a workplace supervisor to assist in identifying and evaluating workplace semester goals. Student must remain employed for the duration of the semester. Work does not need to be related to declared major. Student will attend a weekly coordination seminar and develop job-oriented objectives at their work-site. Student will complete Title 5 Education Code Documents (Agreement, Application, Learning Objectives, Timesheet, Supervisor's Evaluation) that document the student's progress and hours spent in the workplace; and development of workplace soft skills and employability skills relevant to the 21st Century Workplace. Learning objectives will be developed in collaboration between the student, employer, and Work Experience instructor to best meet the student's level of learning. 1 unit of credit may be earned for each 75 hours paid or 60 hours unpaid work during the semester to a maximum of 6 units per semester. Students wishing to continue OCED 091 in subsequent semesters must contact the Work Experience Coordinator for enrollment assistance. Financial Aid and Veterans may have other limits on the number of times this course may be taken. Up to 6 units of General Work Experience may transfer to CSU as elective credits. This course may not be taken concurrently with any other work experience, fieldwork, or practicum course. Course may be taken up to the maximum number of units over multiple semesters (total of all work experience courses cannot exceed 16 units).

# Philosophy

## DEGREES

The philosophy program consists of one comprehensive survey course augmented by special courses in critical thinking, ethics, political philosophy, and religion. All constitute a basic and well-rounded introduction to philosophy. Each course presumes no prior study of philosophy. The courses do not lead to a certifi cate, degree or transfer agreement in themselves. However, these courses may apply to other programs and may also be used toward lower division general education.

# PHIL - Philosophy

**PHIL 001** **3.0 Units**

**Introduction to Critical Thinking and Reasoning**

*Course Advisory: ENGL 001*
*General Education: SCC: Area B; CSU: Area A3*
*Transferable to UC/CSU*

*Hours: 48-54 lecture*

Study of logical thinking and reasoning in everyday life. Emphasis is on informal logic in contrast to formal symbolic logic. Special attention is given to 'computer literacy' and 'educational television.' Critical reading and writing is required. *The course does not fulfill the IGETC critical thinking requirement.*

**PHIL 003 Introduction to Philosophy** **3.0 Units**

*C-ID: PHIL 100*
*Course Advisory: ENGL 001*
*General Education: SCC: Area D; IGETC: Area 3B; CSU: Area C2*
*Transferable to UC/CSU*

*Hours: 48-54 lecture*

General introduction to the central methods and recurring problems in the Western philosophical tradition. Topics of inquiry are theories of knowledge, theories of existence, philosophy of religion, free will and determinism, and the mind-body problem.

**PHIL 004 Introduction to Moral Philosophy** **3.0 Units**

*Course Advisory: ENGL 001*
*General Education: SCC: Area D; IGETC: Area 3B; CSU: Area C2*
*Transferable to UC/CSU*

*Hours: 48-54 lecture*

Introduction to moral philosophy and major ethical theories of the Western philosophical tradition. *Critical reading and writing are required.*

**PHIL 005** **3.0 Units**

**Critical Thinking: The Philosophic Grounds of Literacy**

*Prerequisite**: ENGL 001*
*General Education: SCC: Area B, Area D; CSU: Area A3*
*Transferable to UC/CSU*

*Hours: 48-54 lecture*

Educates students in the fundamental principles of sound and cogent thinking and reasoning expressed primarily in argumentative essays. More specifically, the course is a practicum in critical literacy, i.e., the written practice and refinement of fundamental skills and dispositions required in effective argumentation, critical analysis and evaluation, conceptual inquiry, and discursive expression in general. The study of exemplary argumentative writings from a variety of philosophical, social, and political sources is integral. *Objective exams and critical essays are required. This course fulfills the IGETC critical thinking requirement.*

**PHIL 006 Introduction to Political Philosophy** **3.0 Units**

*Course Advisory: ENGL 001*
*General Education: SCC: Area D; IGETC: Area 3B, 4; CSU: Area D*
*Transferable to UC/CSU*

*Hours: 48-54 lecture*

An inquiry into fundamental political concepts in political thought (e.g. justice, freedom, equality, power, authority, obligation and citizenship) as expressed by major political thinkers. Includes the study of basic skills, criticisms, and methods in political inquiry relevant to the life and education of citizens. *Critical reading and writing is required.*

**PHIL 400 Bioethics** **3.0 Units**

*Prerequisite**: Admission into the Biomanufacturing degree program; Permission of faculty; ENGL 001 and MATH 011*
*Transferable to CSU*

*Hours: 48-54 lecture*

Builds upon a philosophical and critical thinking foundation to train students to be able to model sound ethical decision making in the life science and medical fields. The course requires application of moral theory to a variety of problems in the life science and medical fields such as: genetic engineering, stem cells, allocation of resources, medically assisted dying, genetic screening, genetic alteration, abortion and reproductive rights, and experiments on human or animal subjects. Enrollment in this upper division General Education course is limited to students enrolled in the Bachelors of Science in Biomanufacturing program.

# Photography

## Photography, Professional

*Certificate of Achievement and Associate in Arts*

**Program Description**

Pre-employment training in professional photography is designed to prepare students for self-employment and employment in the private and public sectors and covers a broad spectrum of photographic fields, e.g., advertising illustration, industrial, portraiture, medical, commercial, photojournalism, and landscape.

The Certificate of Achievement can be obtained upon completion of the 24-unit major. The Associate in Arts Degree can be obtained by completing the 24-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Photography, Professional Certificate of Achievement/Associate Degree will be able to:

1. Demonstrate full knowledge of the technical aspects of photography, including camera operations, exposure, lighting, and post-production, including software applications and printing.
2. Integrate conceptual elements with aesthetic and technical skills to create cohesive and memorable photographs.
3. Conceive and produce a coherent portfolio of original work that meets department and professional industry standards.
4. Demonstrate an understanding of, and sensitivity towards, historical and contemporary issues of equity, race, and representation in the photo industry.

| **REQUIRED COURSES** | **Units** |
|---|---|
| PHOT 029 Introduction to Photography | 3 |
| PHOT 032 Introduction to Digital Imaging for Photographers | 3 |
| PHOT 151 Professional Photography: Genres and Studio Practices | 3 |
| PHOT 156 Portfolio Development | 3 |
| 6 units from List A | 6 |
| 6 units from List B | 6 |
| **Required Major Total Units** | **24** |

| **List A:** (select 6 units) | **Units** |
|---|---|
| PHOT 152 Professional Photography: Portraiture | 3 |
| PHOT 153 Professional Photography: Product, Advertising, and Editorial | 3 |
| PHOT 154 Professional Photography: Interior & Exterior | 3 |

| **List B** (select 6 units) | **Units** |
|---|---|
| Any course not used for List A | 3 |
| DMA 065 Exhibition Design | 3 |
| PHOT 030 Black and White Darkroom Photography | 3 |
| PHOT 031 Photography Concepts and Projects | 3 |
| PHOT 033 Intermediate Digital Imaging for Photographers | 3 |
| PHOT 035 Art of Photography | 3 |
| PHOT 040 Alternative Photography | 3 |
| PHOT 045 Introduction to Filmaking for Photographers | 3 |
| PHOT 046 Intermediate Filmaking for Photographers | 3 |
| PHOT 056 Photojournalism and Documentary Photography | 3 |
| PHOT 158 Photo Illustration | 3 |
| PHOT 161 Workshop: Camera Intensive | 1 |
| PHOT 162 Workshop: Portraiture Intensive | 1 |
| PHOT 163 Landscape and Nature Photography | 1 |
| PHOT 164 Digital Printing for Photographers | 1 |
| PHOT 165 Workshop: Lighting on Location | 1 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Photography

## Photo Illustration

*Certificate of Achievement*

**Program Description**

Students learn a range of photographic, design and graphic design skills, including camera operation, light control, principles of color and composition for 2 dimensional work, and a range of industry standard software programs and applications. Professional practices and career paths are explored and all students complete a portfolio of work to prepare them for entry into the job market.

**Career Opportunities**

Social media content manager, web development and management, retouching, photo editor, advertising and promotional designer.

A Certificate of Achievement can be obtained upon completion of the 24-unit major. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Photography, Professional Certificate of Achievement/Associate Degree will be able to:

1. Professional level proficiency in utilizing photography and graphic design to create expressive original works, appropriate for use in various applications including fashion and editorial, advertising and fine art.
2. Working knowledge of current graphic design and photographic software programs, including specific understanding of the strengths and appropriate applications of each program and an ability to work between the programs for strong outcomes.
3. Complete a professional portfolio and accompanying promotional materials appropriate for use in seeking employment in areas of design and media, such as advertising, editorial and fashion production, fine art and social media.

| **REQUIRED COURSES** | **Units** |
|---|---|
| ART 007 Design - Color | 3 |
| DMA 010 Graphic Design I | 3 |
| DMA 020 Introduction to Digital Illustration I | 3 |
| PHOT 029 Introduction to Photography | 3 |
| PHOT 032 Introduction to Digital Media for Photographers | 3 |
| PHOT 158 Photo Illustration | 3 |
| One course from Photo Electives | 3 |
| One course from Graphic Design and Art Electives | 3 |
| **Required Major Total Units** | **24** |

| **Photo Electives: (select one course)** | **Units** |
|---|---|
| PHOT 031 Intermediate Photography | 3 |
| PHOT 045 DSLR Videography | 3 |

| **Graphic Design and Art Electives** | **Units** |
|---|---|
| DMA 011 Graphic Design II | 3 |
| DMA 015 Typography | 3 |
| DMA 021 Advanced Digital Illustration Techniques | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# PHOT - Photography

**PHOT 029 Introduction to Photography 3.0 Units**
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 48-54 lab*
A comprehensive, hands-on introduction to photography, including camera operations, composition, concept, using photo software. Historical and contemporary photographers and genres will also be explored, including attention to issues of race and representation in the field of photography. The course will focus on digital cameras and processes, but there will be some content on film photography. This course is a prerequisite to the courses in the professional photography program. *DSLR (Digital Single Lens Reflex) camera, or a mirrorless camera with interchangeable lenses, is required. Department has some cameras for loan to students who cannot supply their own camera. On campus students will have access to the digital lab.* (formerly PHOT 070)

**PHOT 030 3.0 Units**
**Black and White Darkroom Photography**
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 48-54 lab*
A hands-on introduction to black and white film photography, including 35mm film camera operation, exposure and controls, composition and history, with attention to issues of race and representation in photography. Darkroom techniques, and the safe and effective use of materials and equipment will be emphasized. *Student will have access to the film development area and the darkroom, and will be able to borrow a film camera for use in the course. SLR 35mm film camera and related materials are required. Field trips may be required.*

**PHOT 031 Photography Concepts and Projects 3.0 Units**
*Prerequisite**: PHOT 029*
*General Education: SCC: Area D; CSU: Area C1*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 48-54 lab*
An intermediate course, expanding on the skills and concepts student explored in Introduction to Photography. Students will complete several projects designed to further their understanding of visual language and personal expression, as well as refine their technical skills. Historical and contemporary photographers, genres and trends will be presented, with attention to women and people of color, as well as issues of race and representation.

**PHOT 032 3.0 Units**
**Introduction to Digital Imaging for Photographers**
*Prerequisite**: PHOT 029*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 48-54 lab*
An in-depth exploration of the development of digital photographs, including the use of industry standard software (Adobe Lightroom Classic and Adobe Photoshop) to catalog, optimize and transform digital photographs. This class is intended for photographers and will cover best practices from camera to print. History and ethical issues will also be covered. Students will complete projects that emphasize their own personal vision and creativity. *Digital SLR or comparable camera required. The department has some cameras for short term loan for students who have difficulty acquiring their own. All students will have access to Adobe Creative Cloud and computers are available to loan to online students who cannot provide their own.* (Formerly PHOT 071)

**PHOT 033 3.0 Units**
**Intermediate Digital Imaging for Photographers**
*Prerequisite**: PHOT 032*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*
A continued exploration of the development of digital photographs, including the use of industry standard software (Adobe Lightroom Classic and Adobe Photoshop). Students will refine their skills and learn advanced tools, as well as create a portfolio of work related to their particular interests as a photographer with a continued emphasis on ethics and concept. *Digital SLR or comparable camera required. The department has some cameras for short term loan for students who have difficulty acquiring their own. All students will have access to Adobe Creative Cloud and computers are available to loan to online students who cannot provide their own.*

# PHOT - Photography

**PHOT 035 Art of Photography 3.0 Units**
*Course Advisory: ARTH 031*
*General Education: SCC: Area D; IGETC: Area 3A; CSU: Area C1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
This course is an introduction to photography and visual literacy through a survey of historical and contemporary movements and photographers. Students will complete photo assignments related to course content to deepen their understanding of the concepts. Attention will be paid to issues of racism, representation, ethnicity and national origins, gender and gender identity that exist in both past and current practice of photography. *Camera equipment is not provided by the college. Students registering for this class may use any film or digital camera to complete assignments.*

**PHOT 040 Alternative Photography 3.0 Units**
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 48-54 lab*
An exploration of a range of alternative approaches to photography, including historical processes such as cyanotype and Van Dyke, as well as collage, transfer, alternative digital printing techniques. Emphasis will be placed on creative exploration of the possibilities of photography beyond the traditional photo print. Attention will be paid to race and representation in historical and contemporary practices. *Students will have access to the darkroom, equipment and labs for completing most projects. Film cameras and some digital cameras are available for loan to students who cannot provide their own.*

**PHOT 045 3.0 Units**
**Introduction to Filmmaking for Photographers**
*Course Advisory: PHOT 029*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 48-54 lab*
Introduction to digital filmmaking as an artistic medium through lecture, demonstration, screenings, and hands-on practice. Students will develop skills in pre-production planning, cinematography, sound recording, art direction, post- production, and critical analysis through the creation of their own film projects. Discussions and screenings will cover historic and contemporary filmmakers and their work, with an emphasis on diversity, and an exploration of issues of equity and ethics in the film industry.
*Digital video camera. The department has a limited number of cameras to loan for those that cannot provide their own. Online and hybrid classes require access to a computer that can run Adobe Creative Cloud programs. Software is available through Solano and there are a small number of computers for loan to students who cannot supply their own.*

**PHOT 045 3.0 Units**
**Intermediate Filmmaking for Photographers**
*Prerequisite: PHOT 045*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 48-54 lab*

A continued exploration of digital filmmaking as an artistic medium through lecture, demonstration, screenings, and hands-on practice. This course explores practical applications of filmmaking in professional photography practices, including filmic projects, social media, marketing, and online formats. Students will continue to develop and refine their skills in pre-production planning, cinematography, sound recording, art direction, post-production, and critical analysis through the creation of their own film projects. Discussions and screenings will cover contemporary content creators and their work, with an emphasis on diversity, and an exploration of issues of equity and ethics in the film industry. *Digital video camera. The department has a limited number of cameras to loan for those that cannot provide their own. Online and hybrid classes require access to a computer that can run Adobe Creative Cloud programs. Software is available through Solano and there are a small number of computers for loan to students who cannot supply their own.*

# PHOT - Photography

**PHOT 056** **3.0 Units**

**Photojournalism and Documentary Photography**

*C-ID: JOUR 160*
*Hours: 32-36 lecture, 48-54 lab*
*Transferable to CSU*

An introduction to documentary photography and photojournalism focusing on theory and practice in press and publications photography, with emphasis on using the camera as a reporting and communications tool. Students will explore the range of possibilities in this genre, including the photographic essay, news, and feature photography. History and contemporary practice will be covered, with special attention to ethics, and issues of race and representation. *DSLR, mirrorless, or comparable camera is required. Computer access is required for online courses. The photo department has some cameras and laptops to loan to students who cannot provide their own.*

**PHOT 151** **3.0 Units**

**Professional Photography: Genres and Studio Practices**

*Prerequisite**: PHOT 029*
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture, 72-81 lab*

Designed for students who are considering a career in photography. Students will explore the main genres of professional photography, including portraiture, fashion, still life and product, documentary, and fine art. The course includes a solid introduction to studio lighting using professional equipment. Attention will be paid to issues of race and representation in the field of photography. *DSLR, mirrorless, or comparable digital camera required. Computer required for online course.The department has some cameras and laptops to loan for students who cannot provide their own. On campus students will have access to the lighting studio and digital lab. All students will be able to check out professional lighting equipment for assignments.*

**PHOT 152** **3.0 Units**

**Professional Photography: Portraiture**

*Prerequisite**: PHOT 029*
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture, 72-81 lab*

Explores all areas of portrait photography, including fine art, publication, and retail. Covers technical and aesthetic aspects of portraiture, including lighting and framing, but also historical and contemporary portrait photography. Attention will be paid to issues of racism, representation, and the power structures that exist in both past and current practice of portrait photography. *Digital SLR or comparable camera required. The department has a limited number of cameras to loan for those that cannot provide their own. Field trips may be required, but students will be offered comparable options if unable to attend.*

**PHOT 153** **3.0 Units**

**Professional Photography: Product, Advertising, and Editorial**

*Prerequisite**: PHOT 029*
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture, 72-81 lab*

Explore the camera and lighting techniques used to create photographs of products, and other subjects including food, product, clothing and accessories, and lifestyle, with an emphasis on the advertising and editorial markets. Students will learn about both historical and contemporary practitioners, with an emphasis on diversity, and an exploration of issues of equity, race and representation in the photo and advertising industries. Students will also learn about professional practices and industry opportunities. *Digital SLR or comparable camera required. A very limited number of cameras are available to loan for students who cannot provide their own. Field trips may be required but students will have options if they are unable to attend.*

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# PHOT - Photography

**PHOT 154** **3.0 Units**

**Professional Photography: Interior and Exterior**

*Prerequisite**: PHOT 029*
*Non-transferable to UC or CSU*
*Hours: 24-27 lecture, 72-81 lab*

Explore architectural photography, including the skills needed to produce photographs of both the exterior and the interior of structures, including perspective, specialty cameras and lenses, and post-production. Students will learn about both historical and contemporary practitioners, with an emphasis on diversity, and an exploration of issues of equity and ethics in the profession of architectural photography. Students will also learn about professional practices and industry opportunities. *Digital SLR or comparable camera. Field trips will be part of the course for hybrid and on campus classes. Online and hybrid classes require access to a computer that can run Adobe Creative Cloud programs. Software is available through Solano and there are a small number of computer for loan to students who cannot supply their own.*

**PHOT 156 Portfolio Development** **3.0 Units**

*Prerequisite**: PHOT 151 and (PHOT 152, PHOT 153 or PHOT 154)*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*

Advanced students create a professional photography portfolio and website in preparation for personal career goals. Emphasis is placed on individual direction and personal goals. Attention will be paid to issues of race and representation in the professional photography world. *DSLR, mirrorless, or comparable camera required. Online students will need computer access. On campus students will have access to the studio and lab. All students will be able to check out a range of photographic equipment to help complete coursework, including special lenses and lighting equipment.*

**PHOT 158 Photo Illustration** **3.0 Units**

*Prerequisite**: PHOT 032 and DMA 010*
*Non-transferable to UC or CSU*
*Hours: 32-36 lecture, 48-54 lab*

Students learn how to successfully use photography and graphic design together. Students use original photos and advanced compositing, layering, text, and design to create a portfolio of photo illustrations suitable for editorial, commercial, or fine art applications. Attention will be paid to issues of race and representation in the photography and graphic design fields. *Student will need a DSLR, mirrorless or comparable camera. Online students will need access to a computer that can run photo and illustration software. On campus students will have access to the digital lab. The photo department has some equipment to loan students who are unable to provide their own.*

**PHOT 161 Workshop: Camera Intensive** **1.0 Unit**

*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 16-18 lab*

A short course on understanding and using a DSLR, mirrorless, or comparable digital camera. Students will learn how to determine and set exposure settings manually, as well as use a wide range of camera features, including focus modes and lens options. While the course is designed for beginners, students with some experience will have the opportunity to refine and advance their skills. A basic introduction to software and printing will also be included. *A DSLR, mirrorless or comparable camera is required. Department has some cameras for loan to students who cannot supply their own*

**PHOT 162** **1.0 Unit**

**Workshop: Portraiture Intensive**

*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 16-18 lab*

This short course will cover special areas of portrait photography, including interacting with subjects, posing and options for lighting. While the course is designed for beginners, students with more experience will have the opportunity to advance and refine their skills. Issues of race and representation will also be addressed. *DSLR, mirrorless or comparable camera is required. Department has some cameras for loan to students who cannot supply their own camera.*

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# PHOT - Photography

**PHOT 163** **1.0 Unit**

**Landscape and Nature Photography**

*Course Advisory: PHOT 029 (formerly 070)*
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 16-18 lab*

A short, hands-on course exploring strategies and techniques for making strong, evocative landscape and nature photographs. Techniques and equipment, composition and light, and historical and contemporary practice will be covered, as well as issues of race and representation in the genre of nature and landscape photography. *Previous camera experience recommended. DSLR, mirrorless, or comparable camera is required. Computer capable of running Adobe software is required for online students. Department has some cameras and laptio for loan to students who cannot supply their own.*

**PHOT 164** **1.0 Unit**

**Digital Printing for Photographers**

*Course Advisory: PHOT 029*
*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 16-18 lab*

A comprehensive short course on making digital photo prints. Student will learn camera capture, color management, file preparation, formatting, printing on fine art and specialty paper by creating custom color (ICC) profiles, and matting and framing.

**PHOT 165** **1.0 Unit**

**Workshop: Lighting on Location**

*Non-transferable to UC or CSU*
*Hours: 16-18 lecture, 16-18 lab*

Explores various strategies for working with portable strobes and speed lights in interior and exterior locations. Student will learn how to effectively add artificial light to a range of photos, including architecture, portraits, and landscapes. Topics will include balancing light sources, metering and modifying light, and exploring the creative possibilities of location lighting. Issues of equity and representation will also be explored. *Digital SLR or comparable camera required. The department will supply lighting equipment during class and a limited amount of lighting equipment is available for loan outside the class.*

## Physical Science

*Associate in Science*

**Program Description**

This program provides students the opportunity to investigate methods of scientific inquiry, and to gain scientific knowledge, through specialization in one or more Physical Science disciplines that align with their personal interests, such as Physics, Chemistry, Astronomy, and Geology. Crucially, students taking this degree will also gain an understanding of the factors that affect the Earth's climate, and will thereby develop a deep understanding of the important issue of Climate Change, which will allow them to be knowledgeable global citizens. Students will develop critical thinking skills, learn to communicate effectively in writing, and acquire an understanding of major scientific concepts. Through course options, students will employ methods of scientific inquiry to understand the world around them. Completion of the degree requirements will prepare students with the skills and resources needed to facilitate academic and career decisions.

The Associate in Science Degree can be obtained by completing the 34-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for the major must be completed with a minimum grade of C or a grade of P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

1. Describe physical phenomena in multiple forms (verbal, pictorial, graphical, and mathematical).
2. Qualitatively and quantitatively predict, analyze and/or explain the behavior of physical systems using fundamental physical principles and models.
3. Develop and implement a plan of collecting and/or accessing experimental data, and performing data analysis

| **REQUIRED COURSES** | **Units** |
|---|---|
| CIS 001 Introduction to Computer Science | 3 |
| MATH 011 Elementary Statistics | 4 |
| PHSC 013 Weather and Climate | 3 |
| PHSC 014 Atmospheric Science Laboratory | 1 |
| Option 1 or 2 | 10 |
| 13 Units from List A | 13 |
| **Required Major Total Units** | **34** |

| **Option 1** | **Units** |
|---|---|
| CHEM 001 General Chemistry I | 5 |
| CHEM 002 General Chemistry II | 5 |

| **Option 2** | **Units** |
|---|---|
| PHYS 002 General Physics (Non-calculus) | 5 |
| PHYS 004 General Physics (Non-calculus) | 5 |

| **List A (select 13 units)** | **Units** |
|---|---|
| Any course(s) not used from Option 1 or 2 | |
| ASTR 010 General Astronomy | 3 |
| ASTR 020 Astronomy Laboratory | 1 |
| ASTR 040 Stars, Galaxies, and Cosmology | 3 |
| ASTR 045 Introduction to Astrobiology and the Search for Life in the Universe | 3 |
| ASTR 050 Astronomical Optics | 1 |
| CHEM 010 Intermediate Chemistry | 4 |
| GEOL 001 Physical Geology | 3 |
| GEOL 002 Geology Laboratory | 1 |
| GEOL 006 Earth Science | 3 |
| GEOL 006L Earth Science Laboratory | 1 |
| PHSC 012 Introduction to Principles of Physical Science | 4 |
| PHSC 015 Global Climate Change | 3 |
| PHSC 016 Natural Disasters | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# PHSC - Physical Science

**PHSC 012** **4.0 Units**

**Introduction to Principles of Physical Science**

*General Education: SCC: Area C; IGETC: Area 5A, 5C; CSU: Area B1, B3*
*Transferable to UC/CSU; UC limitation of credit: No credit if taken after an ASTR, CHEM, Earth Science, or PHYS course*
*Hours: 48-54 lecture, 48-54 lab*

Introduction to the physical universe from atomic particles to the stars, with emphasis on the basic principles of physics, chemistry, astronomy, and the geo-sciences. *Meets the physical science requirement for general education for non-science majors. Field trips may be required*.

**PHSC 013 Weather and Climate** **3.0 Units**

*C-ID: PHSC GEOG 130*
*C-ID: PSCH 013 + PHSC 014 = GEOG 130*
*Corequisite: PHSC 014*
*General Education: SCC: Area C; IGETC: Area 5A; CSU: Area B1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

An introduction to modern meteorology. Topics include air circulation, pressure and wind, temperature, moisture, fronts, storm systems, cloud types, and air stability. The course will also include an introduction to interpreting weather maps, synoptic weather forecasting, and climate change.

**PHSC 014 Atmospheric Science Laboratory** **1.0 Unit**

*Corequisite: PHSC 013, PHSC 015 or PHSC 016*
*General Education: IGETC: Area 5C; CSU: Area B3*
*Transferable to UC/CSU*
*Hours: 48-54 lab*

Emphasizes the practical concepts of physical science and weather using demonstration and experimentation. Topics include the scientific method, Newton's laws of motion, heat and energy transfer, the gas law, and fluid dynamics. Other experiments will demonstrate weather observation techniques, collection and analysis of atmospheric data, weather map study, cloud identification, interpretation of satellite imagery, and basic forecasting skills. *This course includes a field trip to a local forecasting facility.*

**PHSC 015 Global Climate Change** **3.0 Units**

*Course Advisory: Concurrent enrollment in PHSC 014*
*General Education: SCC: Area C; IGETC: Area 5A; CSU: Area B1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

Explores the principles underlying the interdisciplinary and rapidly growing field of climate science and climate change. Topics include the Earth's climate system and climate history, the physics and chemistry of greenhouse gases, and evidence for climate change. The course investigates human influences on the climate system, including greenhouse gas emissions, and potential impacts of climate change. It also considers various possible responses to climate change, including alternative energy production, policy responses, and adaptation.
*Field trips may be required.*

**PHSC 016 Natural Disasters** **3.0 Units**

*Course Advisory: Concurrent enrollment in PHSC 014*
*General Education: SCC: Area C; IGETC: Area 5A; CSU: Area B1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

An introduction to the hazards created by the earth's natural and physical processes covering a broad scientific understanding of earthquakes, volcanoes, hurricanes, tsunamis, tornadoes, flooding, wildfires, and other disasters. Other topics will include threats from the earth's changing climate and potential impacts from asteroids and comets. Atmospheric and geological processes that create these catastrophes will also be discussed. The concept of science and the scientific method will be introduced and applied to the course material. *Field trips may be required*.

# Physics

## Associate in Science in Physics for Transfer (ADT: A.S.-T)

**Program Description**
The focus of this program is on developing an understanding of and appreciation for the basic laws of our physical universe. This is done largely through the development of conceptual understanding, problem-solving skills, and laboratory investigations. The PHYS 006, 007, 008 sequence is a three-semester offering in introductory physics requiring math through calculus. This sequence satisfies the lower division physics requirement for majors in physics, chemistry, geology or other physical sciences, and engineering. PHYS 006 is a study of mechanics, gravitation, vibration and fluids. In PHYS 007, students will cover the topics of electricity, magnetism, wave motion, and sound. In PHYS 008, students will cover heat, optics, relativity, and modern physics. Students will learn to analyze and solve problems appropriate for this level. Experiments relating to the topics covered will be performed.

The Associate in Science in Physics for Transfer, will prepare students for a baccalaureate degree in physics. It consists of the courses necessary for beginning physics students to be able to succeed in the upper division physics courses that they will encounter in the CSU system, or any institution (such as the UC system) that grants an undergraduate physics degree. Students who earn the Associate in Science will receive guaranteed priority admission to the CSU system, but not to a particular campus or major. Once admitted the student will only be required to complete 60 additional upper-division units to qualify for a bachelor's degree.

**To earn the Associate in Science in Physics for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or
      the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Science in physics for Transfer will be able to:

1. Demonstrate analytical and/or conceptual problem solving skills related to the study of Physics.
2. Carry out experiments and critically assess data. Students will learn the role of hypothesis, measurement, and analysis in the development of scientific theory, as evidenced by laboratory reports.
3. Write a professional scientific laboratory report.

| **REQUIRED COURSES** | **Units** |
|---|---|
| PHYS 006 Physics for Science and Engineering | 5 |
| PHYS 007 Physics for Science and Engineering | 5 |
| PHYS 008 Physics for Science and Engineering | 5 |
| MATH 020 Analytic Geometry and Calculus I | 4 |
| MATH 021 Analytic Geometry and Calculus II | 4 |
| MATH 022 Analytic Geometry and Calculus III | 4 |
| **Required Major Total Units** | **27** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Physics

## Physics

*Associate in Science*

**Program Description**

The focus of this program is on developing an understanding of and appreciation for the basic laws of our physical universe. This is done largely through the development of conceptual understanding, problem solving skills, and laboratory investigations.

The Associate in Science can be obtained by completing the 33-37-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Physics Associate in Science will be able to:

1. Demonstrate analytical and/or conceptual problem solving skills related to the study of Physics.
2. Carry out experiments and critically assess data. Students will learn the role of hypothesis, measurement, and analysis in the development of scientific theory, as evidenced by laboratory reports.
3. Write a professional scientific laboratory report.

| **REQUIRED COURSES** | **Units** |
|---|---|
| PHYS 006 Physics for Science and Engineering | 5 |
| PHYS 007 Physics for Science and Engineering | 5 |
| PHYS 008 Physics for Science and Engineering | 5 |
| MATH 020 Analytic Geometry and Calculus I | 4 |
| MATH 021 Analytic Geometry and Calculus II | 4 |
| MATH 023 Differential Equations | 4 |
| One course from Biological Science | 3-5 |
| One course from Physical Science | 4-5 |
| **Required Major Total Units** | **34-37** |

| **Biological Science (select one course)** | **Units** |
|---|---|
| BIO 002 Principles of Cell and Molecular Biology | 5 |
| BIO 003 Evolution, Ecology & Biodiversity | 5 |
| BIO 005 Human Physiology | 5 |
| BIO 012 Environmental Science | 3 |
| BIO 014 Principles of Microbiology | 4 |
| BIO 015 Introduction to Biology | 4 |
| BIO 016 Introduction to Human Biology | 3 |
| BIO 018 Biology of Sex | 3 |

| **Physical Science (select one course with lab)** | **Units** |
|---|---|
| ASTR 010 General Astronomy | 3 |
| ASTR 020 Astronomy Laboratory | 1 |
| ASTR 030 The Solar System | 3 |
| ASTR 040 Stars, Galaxies, and Cosmology | 3 |
| CHEM 001 General Chemistry I | 5 |
| CHEM 002 General Chemistry II | 5 |
| CHEM 003 Organic Chemistry I | 5 |
| CHEM 004 Organic Chemistry II | 5 |
| CHEM 010 Intermediate Chemistry | 4 |
| CHEM 011 Basic Organic Chemistry and Biochemistry | 4 |
| GEOG 001 Physical Geography | 3 |
| GEOG 001L Physical Geography Laboratory | 1 |
| GEOL 001 Physical Geology | 3 |
| GEOL 002 Geology Laboratory | 1 |
| GEOL 005 Geology of California | 3 |
| PHSC 012 Introduction to the Principles of Physical Science | 4 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Physics

## Physics

*Associate in Science - UC Tranfer Pathway - UCTP*

**Program Description**

The Associate in Science for UC Transfer (UCTP) in Physics is designed for students planning to transfer to the University of California as Physics majors. This degree will provide students with a full lower-division physics education, along with a strong foundation in mathematics and chemistry. Completion of this degree, with a cumulative GPA of 3.5 or higher in UC transferable coursework, is a guarantee of admission to the University of California System as a Physics major, although not necessarily admission to any particular UC campus.

To earn the Associate in Science in Physics for UC Transfer degree, students must:

(1) Complete a minimum of 60 semester units of courses that are eligible for transfer to the University of California system;

(2) Complete the Intersegmental General Education Transfer Curriculum (IGETC) Areas indicated in the degree pathway with a minimum grade of C or P taken on a Pass/No Pass basis. Please note, this will not complete the IGETC requirements, and students may be required to complete remaining requirements after transfer depending on campus

**Program Outcomes**

Students who complete the Physics Associate in Science will be able to:

1. Demonstrate analytical and/or conceptual problem solving skills related to the study of Physics.
2. Carry out experiments and critically assess data. Students will learn the role of hypothesis, measurement, and analysis in the development of scientific theory, as evidenced by laboratory reports.
3. Write a professional scientific laboratory report.

| **REQUIRED COURSES** | **Units** |
|---|---|
| CHEM 001 General Chemistry I | 5 |
| CHEM 002 General Chemistry II | 5 |
| PHYS 006 Physics for Science and Engineering | 5 |
| PHYS 007 Physics for Science and Engineering | 5 |
| PHYS 008 Physics for Science and Engineering | 5 |
| MATH 020 Analytic Geometry and Calculus I | 4 |
| MATH 021 Analytic Geometry and Calculus II | 4 |
| MATH 022 Analytic Geometry and Calculus III | 4 |
| MATH 023 Differential Equations | 4 |
| MATH 040 Introduction to Linear Algebra | 3 |
| **Required Major Total Units** | **44** |

| **IGETC Requirements (1 course from each Area)** | **Units** |
|---|---|
| Area 1A English Communication | 4 |
| Area 1B Critical Thinking | 3-4 |
| Area 3 Arts and Humanities | 3-5 |
| Area 4 Social and Behavioral Science | 3 |
| Area 5B Biological Science | 3-5 |
| Area 6 Language other than English | 0-5 |

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# PHYS - Physics

**PHYS 002 General Physics (Non-Calculus) 5.0 Units**

*C-ID: PHYS 105*
*Prerequisite**: MATH 004 or MATH 051*
*General Education: SCC: Area C; IGETC: Area 5A, 5C; CSU: Area B1*
*Transferable to UC/CSU; UC limitation of credit: 1 Series either PHYS 002 and PHYS 004 or PHYS 006, PHYS 007, and PHYS 008*
*Hours: 64-72 lecture, 48-54 lab*

First in a two-semester sequence with PHYS 004 in introductory physics using math through trigonometry. Recommended for teachers, technicians, pre-dentistry, pre-medical, and biology majors, and others who need a general physics course. The course covers the study of motion, energy, momentum, gravitation, solids, fluids, thermodynamics and the gaseous state, vibration, wave motion, and sound. Experiments relating to the topics covered will be performed and students will analyze the experiments. *Field trip may be required*.

**PHYS 004 General Physics (Non-Calculus) 5.0 Units**

*C-ID PHYS 110*
*Prerequisite**: PHYS 002*
*General Education: IGETC: Area 5A, 5C; CSU: Area B1, B3*
*Transferable to UC/CSU*
*Hours: 64-72 lecture, 48-54 lab*

Second in a two-semester sequence with PHYS 002 in introductory physics using math through trigonometry. Recommended for teachers, technicians, pre-dentistry, pre-medical, and biology majors, and others who need a general physics course. The course is a study of electricity, magnetism, light and optics, and modern physics. Students learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed and students will analyze the experiments. *Field trip may be required*.

**PHYS 006 5.0 Units**

**Physics for Science and Engineering**

*C-ID: PHYS 205*
*Prerequisite**: MATH 021 (may enroll concurrently)*
*Course Advisory: PHYS 002 or high school physics*
*General Education: SCC: Area C; IGETC: Area 5A, 5C; CSU: Area B1, B3*
*Transferable to UC/CSU*
*Hours: 64-72 lecture, 48-54 lab*

First in a three-semester sequence with PHYS 007 and PHYS 008 in introductory physics requiring math through calculus. This sequence satisfies the lower division physics requirement for majors in physics, chemistry, geology or other physical sciences, and engineering. A study of mechanics, gravitation, vibration and fluids. Students will learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed.

**PHYS 007 5.0 Units**

**Physics for Science and Engineering**

*C-ID: PHYS 210*
*Prerequisite**: PHYS 006 and MATH 021*
*General Education: IGETC: Area 5A, 5C; CSU: Area B1, B3*
*Transferable to UC/CSU*
*Hours: 64-72 lecture, 48-54 lab*

Second in a three-semester sequence with PHYS 006 and PHYS 008 in introductory physics requiring math through calculus. This sequence satisfies the lower division physics requirement for majors in physics, chemistry, geology or other physical sciences, and engineering. A continued covering of topics including electricity, magnetism, wave motion, and sound. Students will learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed.

**PHYS 008 5.0 Units**

**Physics for Science and Engineering**

*C-ID: PHYS 215*
*Prerequisite**: PHYS 006 and MATH 021.*
*General Education: IGETC: Area 5A, 5C; CSU: Area B1, B3*
*Transferable to UC/CSU*
*Hours: 64-72 lecture, 48-54 lab*

Third in a three-semester sequence with PHYS 006 and PHYS 007 in introductory physics requiring math through calculus. This sequence satisfies the lower division physics requirement for majors in physics, chemistry, geology or other physical sciences, and engineering. A continued covering of heat, optics, relativity, and modern physics. Students will learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed and students will analyze the experiments. *Field trip may be required*.

**PHYS 010 Descriptive Physics 3.0 Units**

*Course Advisory: MATH 330 or MATH 330B*
*General Education: SCC: Area C; IGETC: Area 5A; CSU: Area B1*
*Transferable to UC/CSU; UC limitation of credit: No credit if taken after PHYS 002 or PHYS 006*
*Hours: 48-54 lecture*

An introductory physics course for both the non-science and the beginning science student. Includes topics such as nuclear physics, relativity, mechanics, properties of matter, quantum physics, heat, light, electricity and magnetism, sound and waves. Written assignments, tests, and a comprehensive final exam will be used to evaluate student success. *Field trip may be required*.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Political Science

## Associate in Arts in Political Science for Transfer (ADT: A.A.-T)

**Program Description**
This program examines the theory and practice of government and the powerful personalities that affect governmental decisions. This interplay of individual citizens, public leaders, elections, and world events make political inquiry relevant today. The program provides a broad base for the analysis of how government resolves social conflict within the United States and around the world.

Upon completion of the Associate in Arts in Political Science for Transfer, students will be eligible to transfer to a CSU undergraduate Political Science program. The Associate in Arts in Political Science for Transfer Degree will facilitate successful transfer to the CSU system, Students who earn the A.A.-T will receive guaranteed priority admission to the CSU system, but not to a particular campus or major

**To earn the Associate in Arts in Political Science for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Arts in Political Science for Transfer will be able to:

1. Develop theory and content knowledge of political science.
2. Comprehend, analyze, and evaluate academic literature in political science.
3. Create original work and/or research in political science.

**REQUIRED COURSES** .....**Units**
PLSC 001 Introduction to American Government and Politics ..... 3
Three courses from List A ..... 9-10
Two courses from List B ..... 6-7
**Required Major Total Units .....18-20**

**List A: (select three courses) ..... Units**
PLSC 002 Introduction to Comparative Government ..... 3
PLSC 003 Introduction to International Politics ..... 3
PLSC 006 Basic Concepts in Political Thought ..... 3
MATH 011 Elementary Statistics ..... 4
PLSC 004 Introduction to Political Science ..... 3

**List B: (select two courses)..... Units**
Any List A course not used
PLSC 005 Constitutional Rights in a Multicultural Society ..... 3
PLSC 007 International Relations ..... 3
PLSC 016 The American Legal System ..... 3
PLSC 019 Human Rights and Sexual Orientation ..... 3

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# PLSC - Political Science

**PLSC 001** **3.0 Units**

**Introduction to American Government and Politics**

*C-ID: POLS 110*
*General Education: SCC: Area E; IGETC: Area 4, CSU 1; CSU: Area D, CSU 1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

Introduction to the theory and practice of American politics, this course includes an analysis of the operation of national, state, and local governments, as well as the U.S. and California Constitutions.

**PLSC 002** **3.0 Units**

**Introduction to Comparative Government**

*C-ID: POLS 130*
*Course Advisory: PLSC 001; ENGL 001 with a minimum grade of C*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

The political institutions of selected industrialized and developing nations are examined comparatively. Emphasis is on the formation of political institutions; government; political culture; ethnic groups; citizen and interest participation; political parties; and modern bureaucratic public policy roles.
*This course includes a 10-12 page research paper.*

**PLSC 003** **3.0 Units**

**Introduction to International Politics**

*C-ID: POLS 140*
*Course Advisory: PLSC 001 with a minimum grade of C; ENGL 001*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

An introductory study of the international system from the U.S. perspective focusing on such concepts as the nation state and nationalism, power, war and military strategy, international law and approaches to international peace and stability.

**PLSC 004 Introduction to Political Science** **3.0 Units**

*C-ID: POLS 150*
*Course Advisory: ENGL 001 with a minimum grade of C*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

An introduction to political science designed to familiarize students with basic political concepts, political ideologies, political systems, and subfields within political science.

**PLSC 005** **3.0 Units**

**Constitutional Rights in a Multicultural Society**

*Course Advisory: PLSC 001; ENGL 001*
*General Education: SCC: Area E, F; IGETC: Area 4, CSU 1, SCC Cross-Cultural; CSU: Area D, CSU 1, SCC Cross-Cultural*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

Introduction to Constitutional rights, this course will highlight the impact of European, Native American, African American, Asian American, and Latino American cultures on United States and California law and government. The effect of the legislative, executive, and judicial branches will be explored. Cross-cultural issues will also be an integral part of this inquiry, including the freedom of expression, religious culture, and the politics of ethnic groups.

**PLSC 006 Introduction to Political Philosophy** **3.0 Units**

*C-ID: POLS 120*
*Course Advisory: ENGL 001 or ENGL 062*
*General Education: SCC: Area E; IGETC: Area 3B, 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

An inquiry into fundamental political concepts in political thought (e.g. justice, freedom, equality, power, authority, obligation and citizenship) as expressed by major political thinkers. Includes the study of basic skills, criticism, and methods in political inquiry relevant to the life and education of citizens. *Critical reading and writing are required.*

**PLSC 007 International Relations** **3.0 Units**

*C-ID: POLS 140*
*Course Advisory: PLSC 001 with a minimum grade of C*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

An introduction to international relations theory with an examination of national, international, transnational, and sub-national actors and their institutions, interactions and processes as they relate to global issues. Designed to give students a foundation for the study of international relations, it provides a backdrop to understanding global interdependence, its causes and consequences. Included are political, economic, historical, philosophical, cultural, geographical, and environmental dimensions of interdependence. (Formerly IR 001)

# PLSC - Political Science

**PLSC 016 The American Legal System 3.0 Units**

*Course Advisory: PLSC 001; ENGL 001*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

Introduction to the American legal system and influence of other legal systems, emphasizing the evolution of legal concepts in response to the changing environment. The American judicial system will be analyzed to include civil and criminal procedure, torts & contracts, as well as current legal issues including the death penalty, insanity defense, drugs, environmental law, right to die, forensic evidence and role of juries.

**PLSC 019 3.0 Units**

**Human Rights and Sexual Orientation**

*Course Advisory: ENGL 001*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*

An introduction to gay/lesbian studies with an analysis of a variety of concepts and theories in relation to political science, gay rights and the law, the politics of AIDS, health issues, the political/religious right, marriage and family, and current gay agenda issues.

**PLSC 049 Political Science Honors 1.0 to 3.0 Units**

*Prerequisite**: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 6 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability.*
*Transferable to CSU*
*Hours: 48-162 lab by arrangement*

Independent study project which results in a critical examination of government, politics, or law. *Students may take this course up to the maximum number of units over multiple semesters.*

**PLSC 050 Student Leadership 1.0 Unit**

*Transferable to CSU*
*Hours: 32-36 lab, 16-18 lab by arrangement*

A class devoted to the practical application of the governmental process through participation in the student government program. *Open to all students.*

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# Psychology

## Associate in Arts in Psychology for Transfer (ADT: A.A.-T)

**Program Description**
This program provides a broad overview of psychology as a science of human behavior and mental processes. The program emphasizes critical thinking, skeptical inquiry and the scientific approach to understanding major theories, methods, and research in psychology. In addition, personal, social, and organizational areas are explored.

The Associate in Arts for Transfer is especially appropriate for students who plan to complete a bachelor's degree in Psychology at a CSU campus. Students completing an A.A.-T degree are guaranteed priority admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the A.A.-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree also prepares students for psychology degree programs at other four-year institutions, but does not come with the same guarantees. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

**To earn the Associate in Arts in Psychology for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Arts in Psychology for Transfer will be able to:

1. Demonstrate an understanding of the major theories in psychology.
2. Produce an APA formatted research proposal.
3. Demonstrate an ability to apply psychological concepts to everyday life.

| **REQUIRED COURSES** | **Units** |
|---|---|
| PSYC 001 Introduction to Psychology | 3 |
| PSYC 002 Biological Psychology | 3 |
| MATH 011 Elementary Statistics | 4 |
| PSYC 004 Research Methods in Behavioral Science | 3 |
| One course from List A | 3-4 |
| One course from List B | 3 |

| **List A: (select one course)** | **Units** |
|---|---|
| BIO 015 Introduction to Biology | 4 |
| BIO 016 Introduction to Human Biology | 3 |

| **List B: (select one course)** | **Units** |
|---|---|
| PSYC 005 Abnormal Psychology | 3 |
| PSYC 006 Developmental Psychology | 3 |
| PSYC 007 Cross-Cultural Psychology | 3 |
| PSYC 012 Introduction to Gender | 3 |
| PSYC 020 Personal and Social Behavior | 3 |
| PSYC 030 Introduction to Social Psychology | 3 |
| PSYC 034 Human Sexual Behavior | 3 |
| PSYC 040 Drugs, Society & Behavior | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

## Psychology

*Associate in Arts*

**Program Description**

This program provides a broad overview of psychology as a science of human behavior and mental processes. The program emphasizes critical thinking, skeptical inquiry and the scientific approach to understanding major theories, methods, and research in psychology. In addition, personal, social, and organizational areas are explored.

The Associate in Arts can be obtained by completing the 22-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Psychology Associate will be able to:

1. Demonstrate an understanding of the major theories in psychology.
2. Produce an APA formatted research proposal.
3. Demonstrate an ability to apply psychological concepts to everyday life.

| **REQUIRED COURSES** | **Units** |
|---|---|
| PSYC 001 Introduction to Psychology | 3 |
| PSYC 002 Biological Psychology | 3 |
| MATH 011 Elementary Statistics | 4 |
| PSYC 004 Research Methods in Behavioral Science | 3 |
| Three courses from List A | 9 |
| **Required Major Total Units** | **22** |

| **List A: (select three courses)** | **Units** |
|---|---|
| PSYC 005 Abnormal Psychology | 3 |
| PSYC 006 Developmental Psychology | 3 |
| PSYC 007 Cross-Cultural Psychology | 3 |
| PSYC 012 Introduction to Gender | 3 |
| PSYC 020 Personal and Social Behavior | 3 |
| PSYC 030 Introduction to Social Psychology | 3 |
| PSYC 034 Human Sexual Behavior | 3 |
| PSYC 040 Drugs, Society, & Behavior | 3 |
| HS 001 Introduction to Human Services | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# PSYC - Psychology

**PSYC 001 Introduction to Psychology 3.0 Units**
*C-ID: PSY 110*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Introduction to psychology as the scientific study of human behavior and mental processes. Major topics include history of field, scientific method, sensation and perception, brain and nervous system, states of consciousness, development, learning, memory, cognition, motivation, emotion, personality, tests and measurements, health psychology, behavior disorders and treatment, and social psychology.

**PSYC 002 Biological Psychology 3.0 Units**
*C-ID: PSY 150*
*Prerequisite**: PSYC 001*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A focus on the relationship of genetic and physiological factors to behavior. Topics include how the brain and nervous system influence behavior including perception, sexual behaviors, sleep, drug use, disorders, memory and learning. Current theories and research in biological psychology are reviewed.

**PSYC 004 3.0 Units**
**Research Methods in Behavioral Science**
*C-ID: PSY 200*
*Prerequisite**: PSYC 001 and MATH 011*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Introduction to basic research methods in the behavioral sciences. Assumptions and goals of science are considered as well as several specific research techniques or designs. The ethics of research with human and animal subjects will be covered.

**PSYC 005 Abnormal Psychology 3.0 Units**
*C-ID: PSY 120*
*Prerequisite**: PSYC 001*
*Course Advisory: ENGL 001, LR 010, ENGL 062*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An overview of psychological disorders surveying selected disorders in the current version of the Diagnostic and Statistical Manual (DSM), including mood disorders (such as depression, bi-polar disorder), anxiety disorders, psychotic disorders (such as schizophrenia), personality disorders, eating disorders and others. The course discusses historical and scientific approaches to explain and to treat these disorders from bio-psycho-social perspectives.

**PSYC 006 Developmental Psychology 3.0 Units**
*C-ID: PSY 180*
*Course Advisory: PSYC 001*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D, E*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Study of development from the prenatal period through the lifespan. Emphasis will be on current theories and research in developmental psychology. Physical, cognitive, social-emotional, intellectual and linguistic aspects of development will be examined. Included are influences of family, society and culture. *This course does not fulfill the lifespan requirement for the nursing major.*

**PSYC 007 Cross-Cultural Psychology 3.0 Units**
*Course Advisory: PSYC 001*
*General Education: SCC: Area E, F; IGETC: Area 4;*
*CSU: Area D, SCC Cross-Cultural*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An overview of cross-cultural psychology with critical and comparative study of psychological topics such as ethnicity, gender, cognition, emotion, personality, health, and social interaction. Various ethnic populations within the United States, cultural values and individual beliefs will be examined in this class. Contemporary and historical research on the influence of culture on human psychology is reviewed. *A service learning activity and/or field trip may be part of this class.*

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# PSYC - Psychology

**PSYC 012 Introduction to Gender 3.0 Units**
*C-ID: SJS 120 and SOCI 140*
*Course Advisory: PSYC 001*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An examination of the psychological, sociological, biological, cognitive, and cultural theories and research of sex and gender. Analysis of the effects of gender expectations and practices on individual development, health, relationships, and the workplace. Includes agents of socialization, impact of economic and political change, social construction of sexuality and gender identities, and intersectional aspects of gender which includes race, ethnicity, and class. *Open to all students.*

**PSYC 020 Personal and Social Behavior 3.0 Units**
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D, E*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Study of human behavior in the process of adjusting to life's changes. The emphasis is on normal and abnormal adaptations to the various challenges which life presents. Issues related to the major schools of thought and their views towards a healthy personality effective and ineffective behavior, behavioral disorders, psychotherapy, relationships, careers and personal growth will be examined.

**PSYC 030 Introduction to Social Psychology 3.0 Units**
*C-ID: PSY 170*
*Course Advisory: PSYC 001*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Explore how thoughts, feelings, and behavior of individuals are influenced by the actual, imagined, or implied presence of others. Focus will be on the social factors that influence human behavior; other people, institutions, situations and the social and physical structures people have created. A review of the various perspectives unique to social psychologists and a variety of classical research in social psychology will be studied. *Same course as SOC 030.*

**PSYC 034 Human Sexual Behavior 3.0 Units**
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D, E*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Objective exploration of the various issues pertaining to human sexual behavior from the perspective of the behavioral and social sciences. Some of the major topics to be discussed include history of sexuality, attitudes, behaviors, life styles, psychosexual development, role and identity, sexual dysfunctions, therapy and treatment.

**PSYC 040 Drugs, Society and Behavior 3.0 Units**
*General Education: CSU: Area E*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
The historical, sociological, psychological, physiological, pharmacological and legal aspects of drugs. Emphasis will be placed on the effects of stimulants, sedative-hypnotics, narcotics, hallucinogens, alcohol, marijuana and inhalants. Various education, prevention and treatment approaches will be discussed.

**PSYC 049 Psychology Honors 1.0 to 3.0 Units**
*Prerequisite**: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability*
*Transferable to CSU*
*Hours: 48-162 lab by arrangement*
Independent study designed for honor students who intend to major in psychology. *Students may take this course up to the maximum number of units over multiple semesters.*

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

## Real Estate

*Certificate of Achievement and Associate in Science*

**Program Description**

This program offers courses needed to qualify for the state of California salesperson license examination as well as for the broker's examination. A full range of real estate courses is offered including real estate finance, appraisals, etc. The courses are taught by qualified real estate professionals.

The Certificate of Achievement can be obtained by completing the 24-25-unit major. The Associate in Science can be obtained by completing the 24-25-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major have been approved by the California Department of Real Estate and must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Real Estate Certificate of Achievement/Associate in Science will be able to:

1. Analyze common real estate problems, apply appropriate solutions, and interpret outcomes.
2. Meet career preparation goals, as well as prepare for a state licensing exam.
3. Explain the process for making home purchase or sale decisions and completing real estate transactions.
4. Demonstrate mastery of program-specific concepts and skills (e.g. understand theory and application in real estate finance, investments, property management and financial institutions).

| **REQUIRED COURSES** | **Units** |
|---|---|
| RE 164 Real Estate Principles | 3 |
| RE 172 Real Estate Practice | 3 |
| RE 173 Legal Aspects of Real Estate | 3 |
| RE 174 Real Estate Finance | 3 |
| RE 175 Principles of Appraisal | 3 |
| One course from List A | 3 |
| Two courses from List B | 6-7 |
| **Required Major Total Units** | **24-25** |

| **List A: (select one course)** | **Units** |
|---|---|
| RE 171 Real Estate Economics | 3 |
| ECON 001 Principles of Economics (Macroeconomics) | 3 |
| ECON 002 Principles of Economics (Microeconomics) | 3 |

| **List B: (select two courses)** | **Units** |
|---|---|
| ACCT 001 Principles of Accounting - Financial | 4 |
| BUS 018 Legal Environment of Business | 3 |
| RE 176 Advanced Residential Appraisal Practice | 3 |
| RE 177 Income Property Appraisal and Analysis | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# RE - Real Estate

**RE 164 Real Estate Principles 3.0 Units**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
Study of the characteristics of real estate from physical, legal, and economic standpoints. Course material is designed to assist those preparing for the real estate salespersons and brokers license examination.

**RE 171 Real Estate Economics 3.0 Units**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
Study of the economic aspects of real estate and their effects on real estate markets, urban growth and finance. Particular emphasis is made on governmental and agency controls on development of regional and local areas, past and future.

**RE 172 Real Estate Practice 3.0 Units**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
A comprehensive study of the techniques used to successfully operate a real estate business. Includes office management administration, in-service training of associate licensees, legal and statutory compliance, and agency and other oversights. *Designed for students needing a course for education as required by the Department of Real Estate.*

**RE 173 Legal Aspect of Real Estate 3.0 Units**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
Comprehensive study and analysis of California law as applied to the legal problems involved in real estate transactions. Includes contract, agency, and finance devices.

**RE 174 Real Estate Finance 3.0 Units**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
Comprehensive study and analysis of money markets, interest rates, and financing as applied to real estate transactions.

**RE 175 Principles of Appraisal 3.0 Units**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
Entry level appraisal course introducing students to basic appraisal principles and the Uniform Standards of Professional Appraisal Practice. Content includes: Influences on value, legal considerations, economic principles, real estate markets and analysis, valuation process, property description, highest and best use analysis, appraisal statistics, sales comparison and cost approaches to value.

**RE 176 3.0 Units**
**Advanced Residential Appraisal Practice**
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
Advanced appraisal course covering the principles, procedures and techniques needed to appraise all types of residential properties up to four units. The content includes: Review of basic appraisal principles, use of all Federal National Mortgage Association (FNMA) forms, basic income and expense estimating, gross rent multipliers, appraisal ethics and the Uniform Standards of Professional Appraisal Practice (USPAP). Students will appraise a custom home, a condominium and a small income residential property.

**RE 177 3.0 Units**
**Income Property Appraisal and Analysis**
*Prerequisite**: RE 175*
*Non-transferable to UC or CSU*
*Hours: 48-54 lecture*
Advanced appraisal course covering the principles, procedures and techniques needed to appraise commercial property, including large apartment buildings. The course will include review of basic appraisal principles, income and expense estimating, operating expense ratios, direct capitalization, cash flow estimates, measures of cash flow and discounted cash flow analysis. *The use of financial calculator will be required.*

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Science

## Interdisciplinary Studies: Science and Quantitative Reasoning

*Associate in Arts*

**Program Description**

This major is designed for students who are not certain of their specific academic major goals and do not have immediate transfer plans. It would enable them to earn the Associate Degree by completing general education and the 18-unit major. The program is intended to involve inquiry into the physical universe and its life forms with consideration of facts and principles which form the foundations of living and non-living systems. Students will explore scientific methodologies as investigative tools, the acquisition and use of evidence, and the past and present influences of science on world civilizations. Understanding and analysis of basic mathematical and quantitative reasoning concepts will be explored. This program includes courses in areas such as computer science, math, and science.

The Associate in Arts can be obtained by completing a minimum of 18-units in the major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Interdisciplinary Studies: Science and Quantitative Reasoning Associate in Arts will be able to:

1. Discern the relationship between personal perspective and evidence-based evaluation of information..
2. Discover the nature and common themes of the disciplines represented
3. Acquire a knowledge base that encourages lifelong learning in order for them to effectively adapt to a complex and changing society.

**REQUIRED COURSES:**

*Minimum 6 units from Science*
*Minimum 6 units from Quantitative Reasoning*
*6 units from Science and/or Quantitative Reasoning*
**Chemistry courses may not be used in both areas, must choose one area.*

**Required Major Total Units.....18**

**Science**

ANTH 001
ASTR 010, 020, 030, 040
BIO 002, 003, 004, 005, 012, 012L, 015, 016, 018, 019
CHEM* 001, 002, 003, 004, 010, 011, 051, 160
ENGR 017, 030, 045
GEOG 001, 001L
GEOL 001, 002, 005
HORT 050
KINE 041A, 042A
NUTR 010
PHYS 002, 004, 006, 007, 008, 010
PHSC 012
PSYC 002

**Quantitative Reasoning**

CIS 001, 015, 020, 022, 023, 035, 050, 055, 057, 060, 073, 078
CHEM* 001, 002, 010, 160
GEOG 010 or GEOL 010
MATH 002, 004, 011, 012, 020, 021, 022, 023, 030, 031, 040, 051, 102, 103, 104, 112, 114
PSYC 004

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Science

## Science, General

*Associate in Arts*

**Program Description**

This program is designed to provide students with a basic science background, preparing them to move into a curriculum at a four-year institution leading to a degree in such fields as chemistry, biology, , geology, or health sciences. This program is a path for immediate entry into science-based technology careers.

The Associate in Arts can be obtained by completing a minimum of 18 units in the major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Science, General Associate in Arts will be able to:

1. Demonstrate analytical and/or conceptual problem solving skills.
2. Carry out experiments and critically assess their data.
3. Understand the role of hypotheses, measurement and analysis in the development of scientific theory as evidence by laboratory reports.
4. Write a laboratory report or give an oral presentation.

**REQUIRED COURSES** ..... **Units**

12 Units of Laboratory Courses**
Minimum one course from Biological Science
Minimum one course from Physical Science

**Required Major Total Units..... Minimum of 18**

**Biological Science**

BIO 002** Principles of Cell and Molecular Biology ..... 5
BIO 003** Evolution, Ecology, & Biodiversity ..... 5
BIO 004** Human Anatomy ..... 5
BIO 005** Introductory Physiology ..... 5
BIO 012 Environmental Science ..... 3
BIO 012L** Environmental Science Laboratory ..... 1.5
BIO 014* Principles of Microbiology ..... 4
BIO 015** Introduction to Biology ..... 4
BIO 016 Introduction to Human Biology ..... 3
BIO 016L** Human Biology Laboratory ..... 1.5
BIO 018 Biology of Sex ..... 3
BIO 019** Marine Biology ..... 4
ANTH 001 Physical Anthropology ..... 3

**Physical Science**

ASTR 010 General Astronomy ..... 3
ASTR 020** Astronomy Laboratory ..... 1
ASTR 030 The Solar System ..... 3
ASTR 040 Stars, Galaxies, and Cosmology ..... 3
CHEM 001** General Chemistry ..... 5
CHEM 002** General Chemistry ..... 5
CHEM 003** Organic Chemistry I ..... 5
CHEM 004** Organic Chemistry II ..... 5
CHEM 010** Intermediate Chemistry ..... 4
CHEM 011** Basic Organic Chemistry and Biochemistry ..... 4
CHEM 051 Chemistry for the Health Sciences ..... 5
GEOG 001 Physical Geography ..... 3
GEOG 001L** Physical Geography Laboratory ..... 1
GEOL 001 Physical Geology ..... 3
GEOL 002** Geology Laboratory ..... 1
GEOL 005 Geology of California ..... 3
PHSC 012** Introduction to Principles of Physical Science ..... 4
PHYS 002** General (Non-calculus) ..... 5
PHYS 004** General (Non-calculus) ..... 5
PHYS 006** for Science and Engineering ..... 5
PHYS 007** for Science and Engineering ..... 5
PHYS 008** for Science and Engineering ..... 5
PHYS 010 Descriptive ..... 3

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Social Justice/Ethnic Studies

## Ethnic Studies

*Associate in Arts*

**Program Description**

This is an interdisciplinary program which provides an opportunity for students to pursue organized studies of minority groups in American Society and to foster and expand general understanding of these groups. The courses allow for a wide latitude of study to meet a variety of interests with courses which fulfill competence in and an understanding of the unique contributions of American ethnic groups; interpretation of American ethnic culture as manifested in its history, its literature, and its social, economic, political, and philosophical development. (The course descriptions may be found under the appropriate disciplines.)

The Associate in Arts can be obtained by completing the 18-22-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis

**Program Outcomes**

Students who complete the Ethnic Studies Associate in Arts will be able to:

1. Increase understanding of diverse ethnic groups in American society.
2. Identify and analyze the impact of culture and the significance of history and literature.
3. Develop competence as it pertains to various ethnic groups including an understanding of their social, economic, political and philosophical development.
4. Develop competence in understanding the unique contributions of ethnic groups in American Society.

| **REQUIRED COURSES** | **Units** |
|---|---|
| SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict | 3 |
| One course from List A | 3 |
| One course from List B | 3 |
| One course from List C | 3 |
| Two courses from List D | 6-10 |
| **Required Major Total Units** | **18-22** |

| **List A: (select one course)** | **Units** |
|---|---|
| ART 012 Inside/Outside: The Cultures and Identities of Visual Artists in a Diverse America | 3 |
| MUSC 007 Jazz and Popular Music in America: Ragtime to Rock | 3 |
| MUSC 013 Multicultural Music in America | 3 |

| **List B: (select one course)** | **Units** |
|---|---|
| COUN 055 Valuing Diversity | 3 |
| SOCS 030 Peace, Non-Violence, and Conflict Resolution | 3 |

| **List C: (select one course)** | **Units** |
|---|---|
| HIST 028 African American History to 1877 | 3 |
| HIST 029 African American History Since 1865 | 3 |
| PLSC 005 Constitutional Rights in a Multicultural Society | 3 |
| SOCS 053 Civil Rights, Non-Violence, and Race Relations | 3 |

| **List D: (select two courses)** | **Units** |
|---|---|
| ANTH 002 Cultural Anthropology | 3 |
| COUN 055* Valuing Diversity | 3 |
| ENGL 036 Multi-Ethnic Literature in America | 3 |
| HIST 028* African American History to 1877 | 3 |
| HIST 029* African American History Since 1865 | 3 |
| HIST 031 Mexican American/Chicano History | 3 |
| HS 053 Serving Special Populations | 3 |
| MUSC 007* Jazz and Popular Music in America: Ragtime to Rock | 3 |
| MUSC 013* Multicultural Music in America | 3 |
| PLSC 005* Constitutional Rights in a Multicultural Society | 3 |
| PSYC 007 Cross-Cultural Psychology | 3 |
| SOC 002 Social Issues and Problems | 3 |
| SOC 023 Sociology of African Americans | 3 |
| SOCS 025 Mexican-American Experience | 3 |
| SPAN 001 First Semester Spanish | 5 |
| SPAN 002 Second Semester Spanish | 5 |
| SPAN 003 Third Semester Spanish | 5 |
| SPAN 004 Fourth Semester Spanish | 5 |
| THEA 013 Diversity in American Theatre: A Contemporary Focus | 3 |

** If not used for List A-C*

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# Social Justice/Ethnic Studies

## Associate in Arts in Social Justice Studies for Transfer (ADT: A.A.-T)

**Program Description**

The Associate in Arts in Social Justice Studies for Transfer prepares students to provide social leadership in creating greater equity and inclusion in the local community and in larger societal contexts. With a focus on Ethnic Studies, and Gender and Sexuality Studies, Social Justice Studies majors are given opportunities to critically examine the experiences of various communities in relation to issues of power and social inequality. The program's interdisciplinary coursework allows students exposure to a variety of theoretical frameworks including Psychology, English, Sociology, History, Art, Political Science, Communications and more, as well as the fundamentals of methodology needed for social inquiry. Critical thinking and problem solving are emphasized throughout the program, especially in the analysis of historical and current examples of social engagement and change. Social Justice Studies provides a strong academic preparation for upper division coursework, a range of career paths, and meaningful social awareness and public engagement over students' lifetimes.

The Associate in Arts in Social Justice Studies for Transfer is intended for seamless transfer to local California State University campuses (CSUs). Students who successfully complete degree requirements will be ensured admission to the CSU system, but not to a particular campus or major. While coursework in Social Justice Studies is designed to provide lower division preparatory requirements for many related degree programs, students should meet with a counselor to determine specific course requirements for local CSUs/programs and to properly identify which CSUs are considered local.

**To earn the Associate in Arts in Social Justice Studies for Transfer, student must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0.

**Program Outcomes**

Students who complete the Associate in Arts in Social Justice Studies for Transfer will be able to:

1. Identify and analyze historical and modern-day factors that contribute to social inequities in the United States and globally, especially those related to race, gender, and sexuality.
2. Demonstrate knowledge of the unique experiences and social, artistic, and intellectual contributions of key social groups studied.
3. Apply critical thinking and problem-solving skills to complex social issues related to equality, inclusion, and social justice.

**REQUIRED COURSES** .....**Units**

SJS 001 Introduction to Social Justice Studies ..... 3
SJS 002 Introduction to Race and Ethnicity ..... 3
PSYC 012 Introduction to Gender ..... 3
3 courses from at least 2 of the 4 Areas ..... 9-10
**Required Major Total Units.....18-19**

**Area 1: History or Government**

HIST 028 African American History to 1877 ..... 3
HIST 029 African American History Since 1865 ..... 3
HIST 031 Mexican American/Chicano History ..... 3
HIST 037 Women in American History ..... 3
PLSC 005 Constitutional Rights in a Multicultural Society..... 3

**Area 2: Arts and Humanities**

Art 012 Inside/Outside: The Cultures and Identities of Diverse Visual Artists in the U.S. ..... 3
CINA 011 American Cultures in Film..... 3
ENGL 036 Multi-Ethnic Literature in America..... 3
MUSC 013 Multicultural Music in America..... 3

**Area 3: Social Science**

ANTH 002 Cultural Anthropology ..... 3
CDFS 053 Teaching in a Diverse Society..... 3
COMM 012 Intercultural Communication ..... 3
PSYC 007 Cross-Cultural Psychology ..... 3
PSYC 034 Human Sexual Behavior ..... 3

**Area 4: Quantitative Reasoning and Research Methods**

MATH 011 Elementary Statistics..... 4

# ETHN - Ethnic Studies

**ETHN 001 Introduction to Ethnic Studies 3.0 Units**
*General Education: SCC: Area F; IGETC: Area 4; CSU: Area D; CSU Ethnic Studies Requirement*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
This course introduces foundational concepts and themes of the Ethnic Studies discipline. Within the course we will take an interdisciplinary and intersectional approach to the examination of the historical, cultural, economic and political issues that impact ethnic/racial groups within the United States, with a specific focus on the African American/Black American, Asian American, Indigenous/ American Indian/Native American, and Chicana/o/x and Latina/o/x communities.

**ETHN 024 Native Americans and Social Justice 3.0 Units**
*Course Equivalent: ANTH 024*
*Course Advisory: ENGL 001, ENGL 001E, or ENGL 001X*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area 4; CSU Ethnic Studies Requirement*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
This introductory course is a comparative and interdisciplinary examination of the experiences of Indigenous peoples throughout the Americas, with a focus on Native North American and Native Amazonian groups. Using the lens of ethnic studies, and considering the contributions of anthropology, history, and human rights studies, we will examine both historical and contemporary Native American struggles for social justice, with a focus on social movements since the 1960s. Students will analyze these movements and Native American history through an intersectional analysis that interrogates categories of identity and power, including race, ethnicity, culture and culture change, religion, and gender. This course also explores a range of theoretical concepts and social processes, including ethnocentrism, sovereignty and self-determination, citizenship, religion and spirituality, and human rights. With an emphasis on the voices of Native American activists and writers, we will pay special attention to historical and contemporary policies that have affected Native American land use, religion, and language.

**ETHN 028 African American History to 1877 3.0 Units**
*Course Equivalent: HIST 028*
*General Education: SCC: Area E; IGETC: Area 3B, 4; CSU: Area C2, D; CSU American Institutions Graduation Requirement; CSU Ethnic Studies Requirement*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Survey of the history of African Americans from African civilizations through Reconstruction with emphasis on the role of African Americans in the economic, social, and political development of the United States. The course examines the development of the trans-Atlantic slave trade, chattel slavery, concepts of race, gender and racial oppression, and interactions between African Americans and Native Americans and whites. A strong emphasis is placed on strategies of African-American resistance to slavery and racism; self-determination; and black nationalism.

**ETHN 029 African American History Since 1865 3.0 Units**
*Course Equivalent: HIST 029*
*General Education: SCC: Area E; IGETC: Area 3B, 4; CSU: Area C2, D; CSU American Institutions Graduation Requirement; CSU Ethnic Studies Requirement*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
This course is a survey of the political, cultural, and economic history of African Americans from Reconstruction (1865) to the present including an examination of the concepts of segregation, migration and urbanization, nationalism and separatism, class differentiation, civil rights, and liberation. The course will closely examine the African American protest tradition in shaping the American nation. A special emphasis is placed on African American intellectual discourse and the dynamic intersections of race, class, gender, and sexuality in the African American experience.

**ETHN 031 Mexican American/Chicano History 3.0 Units**
*Course Equivalent: HIST 031*
*General Education: SCC: Area E; IGETC: Area 3B, 4; CSU: Area C2, D; CSU American Institutions Graduation Requirement; CSU Ethnic Studies Requirement*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A survey of Mexican American/Chicano history from pre-Columbian civilizations to the present. This course will emphasize the economic, social, cultural, and political events that have shaped the history of Mexican Americans/Chicanos in the United States with an emphasis on the concepts of race and racism, decolonization, racial solidarity, and self- determination.

# ETHN - Ethnic Studies

**ETHN 033 Survey of African American Literature 3.0 Units**
*Course Equivalent: ENGL 033*
*General Education: SCC: Area D; IGETC: Area 3B; CSU: Area C2;*
*CSU Ethnic Studies Requirement*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
This course introduces students to a survey of Black Literature, focusing on the early oral tradition, literature of slavery and freedom, the Harlem Renaissance, Modernism, the Black Arts Era, and the contemporary period. Reading selections may consist of poetry, short stories, plays, novels, and nonfiction prose, including essays, letters, political tracts, autobiographies, speeches, and sermons. Students analyze the literature and apply critical theory, along with historical, cultural, and political contexts to explore lived experiences, social struggles, and contributions of Black and African Americans writers in the United States.

**ETHN 035 Diverse Art: Race and Representation in the U.S.A. 3.0 Units**
*Course Equivalent: ARTH 035*
*General Education: SCC: Area D, Area F; IGETC: Area 3A; CSU: Area C1;*
*SCC Cross-Cultural Graduation Requirement;*
*CSU Ethnic Studies Requirement*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An art survey course that examines and assesses the work of African American artists and artists representing one or more additional communities: Native American, Asian American, and/or Latinx. Examines artists' anti-racist and anti-colonial strategies to assert agency and effect change through the creation and display of their art, in both contemporary and historical contexts. Explores the complexities of intersectional identity, as well as the racism of art organizations and U.S. society. *Field trip may be required.*

**ETHN 036 Multi-Ethnic Literature in America 3.0 Units**
*Course Equivalent: ENGL 036*
*General Education: SCC: Area D, Area F; IGETC: Area 3B; CSU: Area C2;*
*SCC Cross-Cultural Graduation Requirement;*
*CSU Ethnic Studies Requirement*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A survey of Literature by African American, Native American, Asian American, and Latina/oAmerican writers that includes an analysis of complicating factors such as racialization andintersectionality. Reading selections will include novels, plays, short stories, essays, and poetry, bynative born, immigrant, and undocumented writers. The course will emphasize the cultural, political, and historical context of these works.

**ETHN 045 Exploration of Rap and Hip-Hop 3.0 Units**
*Course Equivalent: ARTH 035*
*General Education: SCC: Area D, Area F; IGETC: Area 3A; CSU: Area C1;*
*SCC Cross-Cultural Graduation Requirement;*
*CSU Ethnic Studies Requirement*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Through an Ethnic Studies lens, this course is an in-depth exploration of the history of rap and hip-hop through its origins in African and Black-American oral traditions to its current standing as the preeminent popular musical genre in America and a global phenomenon. Students will be introduced to a myriad of artists, performers, and figures that helped shape this ever-expanding genre. Additionally, students will explore the racial, social, political, and cultural implications and controversies that have been prevalent throughout the genre's history. Students will come to understand how Rap and Hip-Hop has addressed issues of racial and ethnic inequality. Finally, students will be introduced to an extensive list of musical examples that illustrate this history. which will not only broaden their musical horizons, but also (through their lyrical content) illustrate the causes, mechanisms and consequences underpinning racial and ethnic discrimination and inequality in contemporary societies.

# SJS - Social Justice Studies

**SJS 001 Introduction to Social Justice Studies 3.0 Units**
*C-ID: SJS 110*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Interdisciplinary introduction to the study of race/ethnicity, gender, and sexuality in the United States. Examines social justice movements and perspectives in relation to ethnicity/race, gender and sexuality, and related intersectional systems of difference in the United States. Analysis of antiracist and feminist perspectives serves as a basis for understanding socio-economic, cultural and political inequities in the United States and globally, and for assessing strategies for creating greater equity and inclusion for all.

**SJS 002 Introduction to Race and Ethnicity 3.0 Units**
*C-ID: SOCI 150*
*General Education: SCC: Area E, Area F; IGETC: Area 4; CSU: Area D; SCC Cross-Cultural Graduation Requirement*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Analysis of race, ethnicity, and racism. Examines the cultural, political, and economic practices and institutions that support or challenge racism, racial and ethnic inequalities, as well as historical and contemporary patterns of interaction between various racial and ethnic groups.

**SJS 030 3.0 Units**
**Peace, Non Violence and Conflict Resolution**
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Introduction to the study of peace, nonviolence and peaceful conflict resolution. The course is designed for students interested in the fundamental issues of peace, justice, and conflict resolution in our society. It offers students an opportunity to reflect on the peace writings of both past and contemporary authors and is an examination of justice, peace, and peacemakers in the U.S. and worldwide. (Formerly SOCS 030)

# Sociology

## Associate in Arts in Sociology for Transfer (ADT: A.A.-T)

**Program Description**
Sociology is the study of society and human behavior. Students who obtain a degree in Sociology gain a fundamental understanding of culture, socialization, inequality, racial and ethnic relations, sex roles, deviance, social issues and problems, and the distribution of political and economic power. Sociology students prepare themselves for a job in the field of business, health, education, criminal justice, government/law, or social service, and a variety of other areas.

The Associate in Arts in Sociology for Transfer is intended for students who plan to complete a bachelor's degree in Sociology at a CSU campus. Students completing this degree (A.A.-T in Sociology) are guaranteed priority admission to the CSU system, but not to a particular campus or major.

**To earn the Associate in Arts in Sociology for Transfer, student must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or
      the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Arts in Sociology for Transfer will be able to:

1. Become more aware of cultural, social, political, environmental, and economic forces within the world they live.
2. Raise their ethnic consciousness to a higher level of understanding and acceptance.
3. Build skills in critical thinking, reading and writing.
4. Improve skills cited above to provide an excellent base for transfer and success at four-year institutions.

| **REQUIRED COURSES** | **Units** |
|---|---|
| SOC 001 Introduction to Sociology | 3 |
| SOC 002 Social Issues and Problems | 3 |
| PSYC 004 Research Methods in Behavioral Science | 3 |
| MATH 011 Elementary Statistics | 4 |
| SOC 040 Sociology of the Family | 3 |
| Once course from List A | 3 |
| **Required Major Total Units** | **19** |

| **List A: (select one course)** | **Units** |
|---|---|
| SJS 002 Introduction to Race and Ethnicity | 3 |
| SJS 030 Peace, Non Violence, and Conflict Resolution | 3 |
| SOC 045 Sociology of Religion | 3 |
| SOC 075 Introduction to Sociology of Sport | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

## Sociology

*Associate in Arts*

**Program Description**

Sociology is the study of society and human behavior. Students who obtain a degree in Sociology gain a fundamental understanding of culture, socialization, inequality, racial and ethnic relations, sex roles, deviance, social issues and problems, and the distribution of political and economic power. Sociology students prepare themselves for a job in the field of business, health, education, criminal justice, government/law, or social service, and a variety of other areas.

The Associate in Arts can be obtained by completing the 18-19-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis

**Program Outcomes**

Students who complete the Sociology Associate in Arts will be able to:

1. Demonstrate knowledge of cultural, social, political, environmental, and economic forces within the world they live.
2. Demonstrate awareness of equity issues within and between ethnic groups.
3. Demonstrate an ability to critically analyze sociological concepts and issues

| **REQUIRED COURSES** | **Units** |
|---|---|
| SOC 001 Introduction to Sociology | 3 |
| SOC 002 Social Issues and Problems | 3 |
| PSYC 004 Research Methods in Behavioral Science | 3 |
| Two courses from List A | 6 |
| One course from List B | 3-4 |
| **Required Major Total Units** | **18–19** |

| **List A: (select two courses)** | **Units** |
|---|---|
| SOC 023 Sociology of African Americans | 3 |
| SOC 040 Sociology of the Family | 3 |
| SOC 045 Sociology of Religion | 3 |
| SOC 075 Introduction to Sociology of Sport | 3 |

| **List B: (select one course)** | **Units** |
|---|---|
| ANTH 002 Cultural Anthropology | 3 |
| MATH 011 Elementary Statistics | 4 |
| PLSC 019 Human Rights and Sexual Orientation | 3 |
| PSYC 030 Introduction to Social Psychology | 3 |
| SJS 002 Introduction to Race and Ethnicity. | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# SOC - Sociology

**SOC 001 Introduction to Sociology 3.0 Units**
*C-ID: SOCI 110*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Introduction to sociology with analysis of a variety of concepts and theories in relation to culture, socialization, social inequality, race relations, sex roles, deviance, and the distribution of political and economic power.

**SOC 002 Social Issues and Problems 3.0 Units**
*C-ID: SOCI 115*
*Course Advisory: SOC 001*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Analysis of selected social problems, including race relations, urban decay, suburban sprawl, crime, population problems, environment, and changes in the familial, economic and political institutions.

**SOC 023 Sociology of African Americans 3.0 Units**
*Course Advisory: SOC 001 or SOC 022*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An introductory sociological study of African Americans. Emphasis will be on culture, community, social institutions, social relationships and social problems.

**SOC 040 Sociology of the Family 3.0 Units**
*C-ID: SOCI 130*
*Course Advisory: SOC 001*
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A comparative cultural view of the family as an institution, the history of the family and its present role in our society with a special emphasis on kinship relations, sex roles, ethnic and economic variations of the family, and alternative family styles.

**SOC 045 Sociology of Religion 3.0 Units**
*General Education: SCC: Area E; IGETC: Area 4; CSU: Area D*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An introduction to the sociological study of religion in the United States, with an emphasis on the origins of religion, theoretical perspectives on religion, religious conflict, and the future of religion. This course also covers the absence of religion and alternative forms of religion.

**SOC 049 Sociology Honors 1.0 to 3.0 Units**
*Prerequisite**: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability*
*Transferable to CSU*
*Hours: 48-162 lab by arrangement.*
Independent study designed for honor students who intend to major in sociology. *Students may take this course up to the maximum number of units over multiple semesters.*

**SOC 075 Introduction to Sociology of Sport 3.0 Units**
*Course Advisory: SOC 001*
*General Education: SCC: Area E; CSU: Area D*
*Transferable to CSU*
*Hours: 48-54 lecture*
Examines the nature, position, functions, and growing importance of sports in contemporary industrial society. Particular emphasis is given to the relationships between structure, variety, and extent of sports activity and other sectors of society, such as schools, churches, and the work place.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# Theatre Arts

## Associate in Arts in Theatre Arts for Transfer (ADT: A.A.-T)

**Program Description**
Theatre teaches practical skills, performance techniques, and creativity. It is the goal of this department to provide students with the tools needed to pursue a university degree or a career in the performing arts. In terms of university degrees, the curriculum of all core Solano College Theatre courses have been designed to equal courses offered in the UC and CSU system. In terms of careers in the performing arts, a wide range of academic and professional opportunities exists. These job opportunities include work in stage performance, television/film acting, lighting, sound, stage makeup design, costume design, house management, theatre education, theatre for youth, stage management, and even sporting event production.

The Associate in Arts in Theatre Arts for Transfer is intended for students who plan to complete a bachelor's degree in performance theatre or technical theatre. Students completing the A.A.-T are guaranteed admission to the CSU system, but not to a particular class or major.

**To earn the Associate in Arts in Theatre Arts for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Arts in Theatre Arts for Transfer will be able to:

1. Demonstrate comprehension of technical elements and design processes.
2. Provide evidence of vocal and physical performance techniques.
3. Assess written materials for context, theme, structure, and technical requirements.
4. Express the relationship between culture and dramatic art, using scholarly sources to analyze the performing art persuasively and thoroughly.

| **REQUIRED COURSES** | **Units** |
|---|---|
| THEA 006 Introduction to Theatre | 3 |
| THEA 001 Acting 1 | 3 |
| One Performance/Production Course | 3–4 |
| Three courses from List A | 9 |
| **Required Major Total Units** | **18-19** |

| **Performance/Production (select one course)** | **Units** |
|---|---|
| THEA 024A Rehearsal and Performance in Production Comedy | 4 |
| THEA 024B Rehearsal and Performance in Production Drama | 4 |
| THEA 024C Rehearsal and Performance in Production Classical | 4 |
| THEA 024D Rehearsal and Performance in Production Musical | 2-4 |
| THEA 047 Technical Theatre in Production | 2.5 |
| THEA 027 Technical Theatre in Production Show Run Crew | 2 |

| **List A (select 3 courses)** | **Units** |
|---|---|
| THEA 002 Acting 2 | 3 |
| THEA 003 Stagecraft | 3 |
| THEA 008 Stage Make-Up | 3 |
| THEA 009 Script Analysis | 3 |
| THEA 020 Introduction to Stage Lighting | 3 |
| THEA 021 Introduction to Theatre Design | 3 |
| THEA 032A Fundamentals of Costume Design – Comedy | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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## Theatre Arts

*Associate in Arts*

**Program Description**

This program is designed for students who are preparing to further their theatre education at the CSU system, as well as those seeking a career in the entertainment industry. Whether choosing the Acting or Technical emphasis, the major will provide a basic theatre foundation which will include "hands on experiences" in Acting, Stagecraft, Lighting and Costuming, as well as the historical and cultural background necessary for understanding the craft. Individuals interested in this major may also be seeking a foundation for lifelong learning. Students are encouraged to meet with Theatre faculty as well as a counselor for educational pathway guidance.

The Associate in Arts can be obtained by completing the 30-32-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Theatre Arts Associate Degree will be able to:

1. Read and analyze written materials for context, theme and dramatic intent.
2. Demonstrate comprehension of vocal and physical performance techniques, and influencing and audience with their craft.
3. Demonstrate comprehension of technical and artistic production elements including; stagecraft, scenery, costumes, lighting and sound.
4. Utilize and apply current theatrical technology.

| **REQUIRED CORE:** | **Units** |
|---|---|
| THEA 001 Acting 1 | 3 |
| THEA 003 Stagecraft | 3 |
| THEA 006 Introduction to Theatre | 3 |
| THEA 013 Diversity in American Theatre: A Contemporary Focus | 3 |
| One Production course | 2-4 |
| Choose Acting or Technical Emphasis | 6 |
| 9 units from List A | 10 |
| **Required Major Total Units** | **30-32** |

| **Production: (select one)** | **Units** |
|---|---|
| THEA 047 Technical Theatre in Production | 2.5 |
| THEA 027 Technical Theatre in Production Show Run Crew | 2 |
| THEA 024 Rehearsal and Performance Production | 1-4 |
| THEA 024A Rehearsal and Performance Production - Comedy | 2 |
| THEA 024B Rehearsal and Performance Production - Drama | 2 |
| THEA 024C Rehearsal and Performance Production - Classical | 2 |
| THEA 024D Rehearsal and Performance Production - Musical | 2-4 |

**Select an Emphasis (Acting or Technical)**

| **Acting Emphasis: (both courses required)** | **Units** |
|---|---|
| THEA 002 Acting 2 | 3 |
| THEA 035 Fundamentals of Musical Theatre: Acting | 3 |

| **Technical Emphasis: (both courses required)** | **Units** |
|---|---|
| THEA 020 Introduction to Stage Lighting | 3 |
| THEA 032A Fundamentals of Costume Design | 3 |

| **List A: (select 10 units)** | **Units** |
|---|---|
| Any Production course not used | 2-4 |
| THEA 005 Applied Drama | 2 |
| THEA 008 Stage Make-Up | 3 |
| THEA 009 Script Analysis | 3 |
| THEA 010 Theatre History 1 | 3 |
| THEA 011 Theatre History 2 | 3 |
| THEA 015 Theatre Appreciation | 3 |
| THEA 021 Introduction to Theatre Design | 3 |
| THEA 032B Costume Design Lab | 2 |
| THEA 036 Advanced Fundamentals of Musical Theatre | 3 |
| THEA 040 Acting for the Camera | 3 |
| THEA 055 Advanced Theatre Touring Company | 1 |
| THEA 148A Special Advanced Topics in Theatre: For Actors | 1 |
| THEA 148B Special Advanced Topics in Theatre: Technical Theatre | 1 |
| THEA 148C Special Advanced Topics in Theatre: Costuming | 1 |
| THEA 148D Special Advanced Topics in Theatre: Management and Direction | 1 |

## Theatre Arts Technical

*Certificate of Achievement*

**Program Description**

The Theatre Arts Technical Certificate program prepares students for an entry-level career in Community and Professional Theatre. Beginning careers may include: Scene Shop Technician, Stage Electrician, Property Artisan, Costume Technician, Make-Up Technician, Scenic Artist, Audio Technician, Stage Manager, and Event Tech.

The Certificate of Achievement can be obtained by completing the 27-29.5 -unit major. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Theatre Arts Technical Certificate of Achievement will be able to:

1. Work effectively with lighting and scenery design plans.
2. Work competently with common materials and techniques when constructing theatrical elements.
3. Apply fundamental techniques while participating as a member of a backstage production crew.
4. Demonstrate basic skills in one or more of the following areas of specialization. lighting hangs and focus, scenic carpentry, scenic painting, audio set up and signal routing.
5. Integrate knowledge of theatre history and literature when constructing theatrical elements.

| **REQUIRED CORE:** | **Units** |
|---|---|
| THEA 001 Acting 1 | 3 |
| THEA 003 Stagecraft | 3 |
| THEA 006 Introduction to Theatre | 3 |
| THEA 020 Introduction to Stage Lighting | 3 |
| 3 semesters from Technical Emphasis | 6-7.5 |
| 9-9.5 units from List A | 9-10 |
| **Required Major Total Units** | **27-29.5** |

| **Technical Emphasis:** | **Units** |
|---|---|
| (3 semesters of THEA 047 and/or THEA 027 required) | |
| THEA 027 Technical Theatre in Production Show Run Crew | 2 |
| THEA 047 Technical Theatre in Production | 2.5 |

| **List A:** (select 9-10 units) | **Units** |
|---|---|
| ART 006 Degign Principles in 2-Dimensions | 3 |
| DRFT 045 Introduction to Computer-Aided Drafting (CAD) | 4 |
| THEA 008 Stage Make-Up | 3 |
| THEA 009 Script Analysis | 3 |
| THEA 021 Introduction to Theatre Design | 3 |
| THEA 032A Fundamentals of Costume Design | 3 |
| THEA 032B Costume Design Lab | 2 |
| THEA 148B Special Advanced Topics in Theatre: Costuming | 1 |
| THEA 148C Special Advanced Topics in Theatre: Technical Theatre | 1 |
| THEA 148D Special Advanced Topics in Theatre: Management and Direction | 1 |
| WELD 130 Beginning Shielded Metal Arc Welding* (Stick 7018/6010 Basic) | 3 |

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# THEA - Theatre Arts

**THEA 001 Acting 1** **3.0 Units**

*C-ID: THTR 151*
*General Education: SCC: Area D; CSU: Area C1*
*Transferable to UC/CSU*

*Hours: 48-54 lecture*

Prepares a student to apply basic acting theory to performance and develops the skills of interpretation of drama through acting. Special attention is paid to skills for performance: memorization, stage movement, vocal production, and interpretation of text.

**THEA 002 Acting 2** **3.0 Units**

*C-ID: THTR 152*
*Prerequisite**: THEA 001*
*General Education: CSU: Area C1*
*Transferable to UC/CSU*

*Hours: 48-54 lecture*

Continued study of theories and techniques used in preparation for the interpretation of drama through acting. The emphasis will be placed on deepening the understanding of the acting process through character analysis, monologues, and scenes.

**THEA 003 Stagecraft** **3.0 Units**

*C-ID: THTR 171*
*Transferable to UC/CSU*

*Hours: 24-27 lecture, 72-81 lab*

Introduction to the backstage aspects of live theatre and the creation of technical elements. Includes basic concepts of scene design, scene painting techniques, set construction, set movement, prop construction, backstage organization and career possibilities. May include stage management, lighting, and/or sound techniques. Lecture, reading, projects, and hands on practical experience. Students will participate in the planning, design, set construction, and painting of a main college theatrical event as determined by the instructor. *Repeatable 1 time.*

**THEA 005 Applied Drama** **2.0 Units**

*Prerequisite**: Audition; THEA 001 and THEA 003*
*Transferable to UC/CSU*

*Hours: 16-18 lecture, 48-54 lab*

The study and rehearsal of dramatic, comedic and musical works for the stage which includes: classical plays, contemporary dramas and comedies, revues, musicals, and one-acts. Students participate as actors, ensemble members, directors, production designers and/or technicians.

**THEA 006 Introduction to Theatre** **3.0 Units**

*C-ID: THTR 111*
*General Education: SCC: Area D; IGETC: Area 3A; CSU: Area C1*
*Transferable to UC/CSU*

*Hours: 48-54 lecture*

Focuses on the relationship of theatre to various cultures throughout history, and on the contributions of significant individual artists. This course introduces students to elements of the production process including playwriting, acting, directing, design, and criticism. Students will also survey different periods, styles and genres of theatre through play reading, discussion, films and viewing and critiquing live theatre, including required attendance of theatre productions. This is an audience oriented, non-performance course. *Field trips will be required*.

**THEA 008 Stage Make-Up** **3.0 Units**

*C-ID: THTR 175*
*Transferable to UC/CSU*

*Hours: 32-36 lecture, 48-54 lab*

Students will receive instruction and practice in a lecture/laboratory setting in all phases of makeup specifically designed for theatrical use.

**THEA 009 Script Analysis** **3.0 Units**

*C-ID: THTR 114*
*General Education: SCC: Area D; IGETC: Area 3A; CSU: Area C1*
*Transferable to UC/CSU*

*Hours: 48-54 lecture*

Fully explore an in-depth methodology of reading, analyzing and understanding play scripts in a variety of genres and styles intended for production. Investigate techniques used to determine how to read a play for its structure, scrutinizing the playwright's methods of creating theatre through plot, character and imagery, and understanding what scripts "mean" to the professional theatre artist and audience as distinct from other forms of literature.

**THEA 010 Theatre History 1** **3.0 Units**

*General Education: SCC: Area D; IGETC: Area 3A; CSU: Area C1*
*Transferable to UC/CSU*

*Hours: 48-54 lecture*

The study of the history of theatre from the Origins of Theatre through the 17th Century. The history and development of theatre and drama are studied in relationship to cultural, political and social conditions of the time. Plays are read for analysis of structure, plot, character and historical relevance. *Field trip may be required*.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
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# THEA - Theatre Arts

**THEA 011 Theatre History 2 3.0 Units**
*General Education: SCC: Area D; IGETC: Area 3A; CSU: Area C1*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
The study of the history of theatre from the 17th Century to contemporary times. The history and development of theatre and drama are studied in relationship to cultural, political and social conditions of the time. Plays are read for analysis of structure, plot, character and historical relevance. Contemporary multicultural theatre will be emphasized.

**THEA 013 3.0 Units**
**Diversity in American Theatre: A Contemporary Focus**
*General Education: SCC: Area D, F; IGETC: Area 3A, SCC Cross-Cultural; CSU: Area C1, SCC Cross-Cultural*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Introduction to American cultural diversity in theatrical performance, this course will study African-American, Asian-American and Latino(a) theatres, and theatrical representations including TV and film, supplemented by consideration of the social and political conditions impacting these works. *Journals, exams, and scene performance or readings and oral reports or critical papers are required.*

**THEA 015 Theatre Appreciation 2.0 Units**
*General Education: SCC: Area D; CSU: Area C1*
*Non-transferable to UC or CSU*
*Hours: 40-45 lecture, 24-27 lab by arrangement*
This survey course will foster a student's appreciation of theatre and the performing Arts. The course examines the duties and responsibilities of the various creative artists such as director, actor, designers, and playwrights and the process of creating live performance. Students would be required to purchase tickets to live performances.

**THEA 020 Introduction to Stage Lighting 3.0 Units**
*C-ID: THTR 173*
*Transferable to UC/CSU*
*Hours: 24-27 lecture, 72-81 lab*
The study and execution of stage lighting with an emphasis on equipment, control, color and their relationship to design. This course will discuss the methods and materials utilized in designing lighting for the stage. Focus on the practical skills needed to complete a Light design projects. Attention will be paid to issues of racism, sexism, representation, and the power structures that exist in the present and past of theatre.

**THEA 021 Introduction to Theatre Design 3.0 Units**
*C-ID: THTR 172*
*Prerequisite**: THEA 003*
*Course Advisory: ENGL 001*
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 48-54 lab*
Students will be offered a survey of scenery, lighting, sound, costumes, make up, properties, theatrical equipment and construction techniques through demonstration and laboratory experience. Information will be applicable to all formal theatrical applications. Attention will be paid to issues of racism, sexism, representation, and the power structures that exist in the present and past of theatre and film.

**THEA 024 1.0 - 4.0 Units**
**Rehearsal and Performance in Production**
*Course Advisory: Audition requirement for placement of roles.*
*Transferable to CSU up to 2.0 units*
*Hours: 48-216 lab by arrangement*
Instruction and supervised participation in theatre rehearsal and performance. Instruction will be focused upon the unique elements and demands of a live stage production. The production(s) can be: Comedy, Drama, Classical and a Musical. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater.
*Transferable to CSU up to 2.0 units Transferable to UC up to 1.0 units. Students may enroll up to the maximum number of units over multiple semesters. Repeatable 3 times.*

**THEA 024A 2.0 Units**
**Rehearsal and Performance in Production - Comedy**
*C-ID: THTR 191*
*Transferable to UC/CSU*
*Hours: 112-126 lab by arrangement*
Instruction and supervised participation in theatre rehearsal and performance. Instruction will be focused upon the unique elements and demands of comedy. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# THEA - Theatre Arts

**THEA 024B** **2.0 Units**
**Rehearsal and Performance in Production - Drama**
*C-ID: THTR 191*
*Transferable to UC/CSU*
*Hours: 112-126 lab by arrangement*
Instruction and supervised participation in theatre rehearsal and performance. More specifically, this class is designed to approach the unique requirements of producing contemporary drama. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater.

**THEA 024C** **2.0 Units**
**Rehearsal and Performance in Production - Classical**
*C-ID: THTR 191*
*Transferable to UC/CSU*
*Hours: 112-126 lab by arrangement*
Instruction and supervised participation in a classical theatre production. Scripts selected may include classical Greek, Roman, medieval, renaissance, and restoration dramas. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater.

**THEA 024D** **2.0-4.0 Units**
**Rehearsal and Performance in Production - Musical**
*C-ID: THTR 191*
*Transferable to UC/CSU*
*Hours: 112-234 lab by arrangement*
Instruction and supervised participation in musical theatre rehearsal and performance, including operas, operettas, and musicals. Students will participate as vocalists, musicians, dancers and accompanists. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater. *Students may enroll up to the maximum number of units over multiple semesters.*

**THEA 027** **2.0 Units**
**Technical Theatre in Production Show Run Crew**
*C-ID: THTR 192*
*Transferable to UC/CSU*
*Hours: 112-126 lab*
A practicum course oriented for the student to work with the technical requirements used in a production. The type(s) of production can be: Comedy, Drama, Classical and Musical. Students will gain practical experience in the application of production responsibilities in any of the following for live show running crews: Properties, Costume, Lighting, Sound, Stage Management and house management. Students are given an increasing level of responsibility in accordance with their individual abilities.

**THEA 032A Fundamentals of Costume Design 3.0 Units**
*C-ID: THTR 174*
*Transferable to UC/CSU*
*Hours: 16-18 lecture, 96-108 lab*
Students will study costume history, design, and basic construction techniques as an introduction to theatrical costuming. Subject material can cover a variety of theatre genre, but with a focus on Comedy works. Emphasis on illustration and design elements, including story boards and renderings. Students will analyze and examine scripts and research items related to costuming. Students will explore and learn how stock characters and their costumes can support an exaggerated theme and how these characters can have multiple costumes.
*Repeatable one time.*

**THEA 032B Costume Design Lab** **2.0 Units**
*Transferable to UC/CSU*
*Hours: 96-108 lab*
Students will enhance basic design and sewing knowledge while designing costumes for large musical casts with multiple costume changes. Each student will be given an increasing level of responsibilities in accordance with individual abilities. Successful completion of the costume production process may culminate in the areas of : Co-Costume Designer, Assistant Designer, Cutter, Tailor, First Hand, Stitcher, Milliner, Cobbler, Crafts Artisan, Wardrobe Supervisor or Dresser.

# THEA - Theatre Arts

**THEA 035** **3.0 Units**
**Fundamentals of Musical Theatre: Acting**
*Transferable to UC/CSU*
*Hours: 32-36 lecture, 48-54 lab*
The study, rehearsal, and class performance of musical works for the stage. Students will explore acting through performing as singers and dancers. Attention will be paid to issues of racism, sexism, representation, and the power structures that exist in the present and past of theatre.

**THEA 036** **3.0 Units**
**Advanced Fundamentals of Musical Theatre**
*Prerequisite**: THEA 035*
*Course Advisory: THEA 001*
*Hours: 32-36 lecture, 48-54 lab*
The advanced study of musical works for the stage. Advanced students will participate as performers, singers, and dancers but also study and participate as directors and choreographers for in class projects.

**THEA 040 Acting for the Camera** **3.0 Units**
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A professional approach to the basics of on-camera acting. Areas of concentration include commercials, public service announcements, corporate videos, news reporting, and feature films. The course includes an in-depth approach to careers in media with concentration on agents, casting directors, resumes, pictures and the necessary tools for building a life as an actor. Attention will be paid to issues of racism, sexism, representation, and the power structures that exist in the present and past of theatre and film.

**THEA 047 Technical Theatre in Production** **2.5 Units**
*Transferable to CSU*
*Hours: 128-144 lab by arrangement*
This course is oriented for the student to work with the technical requirements used in a production. The type(s) of production can be: Comedy, Drama, Classical and Musical. Students will gain practical experience in the application of production responsibilities in any of the following: Set construction, scenic painting, properties, costume, lighting, sound, live show running crews, stage management and house management. Students are given an increasing level of responsibility in accordance with their individual abilities. *Repeatable 2 times*.

**THEA 055 Advanced Theatre Touring Company** **1.0 Unit**
*Transferable to CSU*
*Hours: 8-9 lecture, 24-27 lab*
Students will prepare and rehearse performances to tour throughout Solano County. Discussions will be had on issues of racism, sexism, representation, and the power structures that exist in the present and past of theatre and film, and how to help effect change in our own little part of the world. Travel is required to various Solano County schools and venues for performances.

**THEA 148A** **1.0 Unit**
**Special Advanced Topics in Theatre: For Actors**
*Course Advisory: THEA 001, THEA 003, THEA 024 and THEA 027*
*Non-transferable to UC or CSU*
*Hours: 8-9 lecture, 24-27 lab*
Advanced specialized theatre studies to allow students to better understand their future choices in theatre specializations and to add training to their theatre resume. May involve participation with the current SCC productions.

**THEA 148B** **1.0 Unit**
**Special Advanced Topics in Theatre: Technical Theatre**
*Course Advisory: THEA 001, THEA 003, THEA 024 and THEA 027*
*Non-transferable to CSU*
*Hours: 8-9 lecture, 24-27 lab*
Advanced specialized theatre studies to allow students to better understand their future choices in theatre specializations and to add training to their theatre resume. May involve participation with the current SCC productions.

**THEA 148C** **1.0 Unit**
**Special Advanced Topics in Theatre: Costuming**
*Course Advisory: THEA 001, THEA 003, THEA 024 and THEA 027*
*Non-transferable to CSU*
*Hours: 8-9 lecture, 24-27 lab*
Advanced specialized theatre studies to allow students to better understand their future choices in theatre specializations and to add training to their theatre resume. May involve participation with the current SCC productions.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

**THEA 148D** **1.0 Unit**

**Special Advanced Topics in Theatre: Management and Direction**

*Course Advisory: THEA 001, THEA 003, THEA 024 and THEA 027*
*Non-transferable to CSU*

*Hours: 8-9 lecture, 24-27 lab*

Advanced specialized theatre studies to allow students to better understand their future choices in theatre specializations and to add training to their theatre resume. May involve participation with the current SCC productions.

# TUTR - Tutoring

The TUTR courses are designed for students using tutoring services on a drop-in basis or for students wishing to serves as tutors. The courses do not lead to a certificate, degree or transfer agreement.

**TUTR 050 Tutoring Practicum 0.5 Unit**

*Prerequisite**: Completion with a minimum grade of B in the subject to tutor, instructor recommendation, permission of Tutoring Center personnel after verification of prerequisites, and concurrent assignment as a Tutoring Center or in-class tutor*
*Transferable to CSU*
*Hours: 8-9 lecture*

Supervised practice in tutoring, examines the basics of learning principles, communication, listening skills, effective tutoring techniques and is required for all students who work or volunteer in the Tutoring Center.

**TUTR 500 Supervised Tutoring 0.0 Units**

*Prerequisite**: Recommendation by the course instructor or a counselor or permission of the TUTR 500 instructor of record*
*Corequisite: concurrent enrollment in course or courses in which tutoring assistance is being requested*
*Non-transferable to CSU*
*Hours: 16-180 lab*

Provides students tutorial support with instructional aids and student tutors to develop learning skills that enhance classroom achievement. In addition, Critical Skills for College Success Workshops are offered in many instructional areas. Tutor-supported computer labs are provided for academic use. *This is an Open Entry/Open Exit, ungraded course.*

# Water and Wastewater Technology

## Water and Wastewater Technology

*Certificate of Achievement and Associate in Science*

**Program Description**

A study of the principles of water and wastewater disposal and purification including municipal and industrial wastewater collection and treatment. The program will satisfy most of the requirements for certification of water and wastewater treatment personnel.

The Certificate of Achievement can be obtained upon completion of the 25-32-unit major. The Associate in Science can be obtained upon completion of the 25-32 unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Water and Wastewater Technology Certificate of Achievement/Associate in Science will be able to

1. Attain certification of plant operators.
2. Understand treatment methods and technology.
3. Understand technology laws and regulations.

**REQUIRED CORE COURSES** .....**Units**

WATR 100 Wastewater Treatment I ..... 4

WATR 101 Basic Chemistry for Water and Wastewater ..... 4
or
WATR 102 Sanitary Chemistry ..... 4

WATR 104 Water Treatment I ..... 3
WATR 106 Instrumentation and Controls ..... 3
WATR 107 Mathematics of Water and Wastewater Treatment ..... 4
Two courses from Specialty Courses ..... 4-5
Select Option 1, 2 or 3 ..... 3-9
**Required Major Total Units..... 25-32**

**Specialty Courses (select two courses)..... Units**

WATR 105 Wastewater Treatment II ..... 3
WATR 108 Water Treatment II ..... 2
WATR 120 Distribution Systems Maintenance ..... 2
WATR 121 Collection Systems Maintenance ..... 2

**Select from the following options:**

**OPTION 1**

BIOT 160 Basic Concepts/Methods in Biotechnology ..... 4

**OPTION 2**

BIO 014 Principles of Microbiology ..... 4
One course from List A

**List A**

CHEM 010 Intermediate Chemistry ..... 4
CHEM 051 Chemistry for the Health Sciences ..... 5
CHEM 001 General Chemistry I..... 5

**OPTION 3**

WATR 103 Biological Principles of Water and Wastewater ..... 3

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# WATR - Water and Wastewater Technology

**WATR 100 Wastewater Treatment I 4.0 Units**
*Non-transferable to CSU*
*Hours: 64-72 lecture*
Study of municipal and industrial wastewater collection and wastewater treatment methods, protection of ground water and receiving waters, and effects of pollutants on receiving waters.

**WATR 101 4.0 Units**
**Basic Chemistry for Water and Wastewater**
*Non-transferable to CSU*
*Hours: 64-72 lecture*
Through lecture and demonstrations, the student will develop the ability to analyze and determine if proper levels of purification, content of acidity, alkalinity, hardness, and other water quality criteria have been achieved for water or wastewater treatment.

**WATR 103 3.0 Units**
**Biological Principles of Water and Wastewater**
*Non-transferable to CSU*
*Hours: 48-54 lecture*
Examine the biological and ecological properties of the bacteria, protozoa, fungi, algae, viruses, and animals whose control is important to the provision of safe drinking water supplies and environmentally safe wastewater. The course emphasizes the microbiology of drinking water, wastewater, and activated sludge, and examines the microbial sampling, analysis, and treatment strategies important in this industry.

**WATR 104 Water Treatment I 3.0 Units**
*Non-transferable to CSU*
*Hours: 48-54 lecture*
Examine the elementary engineering aspects of the design, operation, process control, and facilities of a plant designed to treat and purify drinking water.

**WATR 105 Wastewater Treatment II 3.0 Units**
*Prerequisite**: WATR 100*
*Non-transferable to CSU*
*Hours: 48-54 lecture*
Study of the elementary engineering aspects of design, operation process control, and maintenance of wastewater treatment plants and facilities.

**WATR 106 Instrumentation and Controls 3.0 Units**
*Non-transferable to CSU*
*Hours: 48-54 lecture*
Study of pneumatic, mechanical and electronic control systems and components. Includes a basic description and explanation of the operation of instruments and controls for water and wastewater plants. Typical performance characteristics, accuracy, and applications of instruments are studied.

**WATR 107 4.0 Units**
**Mathematics of Water and Wastewater Treatment**
*Non-transferable to CSU*
*Hours: 64-72 lecture*
A study of calculations - hydraulics, chemicals, solids - used in the design, operation, process control, and maintenance of treatment plants and facilities.

**WATR 108 Water Treatment II 3.0 Units**
*Prerequisite**: WATR 104*
*Non-transferable to CSU*
*Hours: 48-54 lecture*
Advanced topics in the control of ions and disinfecting chemicals in drinking water. In addition it covers the issues of safety, regulation, administration, and maintenance of a water treatment plant. This course will often be taught at an off-campus site. *Three hours lecture.*

**WATR 112 Wastewater Treatment III 2.0 Units**
*Prerequisite**: WATR 105*
*Non-transferable to CSU*
*Hours: 32-36 lecture*
Advanced topics appropriate to a wastewater treatment facility including activated sludge, residual solids management, solids removal from secondary effluents, phosphorus and nitrogen removal, enhanced biological (nutrient) control, wastewater reclamation and recycling, and odor control. *This course is often taught off-site*.

**WATR 120 2.0 Units**
**Distribution Systems Maintenance**
*Non-transferable to CSU*
*Hours: 32-36 lecture*
Study of the operation and maintenance of water distribution systems covering the design, construction and the functioning of these systems.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# WATR - Water and Wastewater Technology

**WATR 121 Collection Systems Maintenance 2.0 Units**
*Non-transferable to CSU*
*Hours: 32-36 lecture*
Study of the operation and maintenance of wastewater collection systems covering the design, construction and functioning of these systems.

**WATR 125 Water Conservation 2.5 Units**
*Non-transferable to CSU*
*Hours: 40-45 lecture*
Water conservation includes the study of methods to reduce water use, loss, and waste, and methods to increase water efficiency in an effort to minimize the amount of water used to accomplish a function or task. This course combines subject matter lectures and planned learning experiences so students learn the principles involved in the conservation and efficient use of water resources for economic, environmental, and regulatory purposes. Students will learn about water supply and demand; utility water demand characteristics and water rates; residential, commercial, and landscape water use measurements; water management planning, and how to perform various types of water audits.

**WATR 126 Pumps and Motors 3.0 Units**
*Non-transferable to CSU*
*Hours: 48-54 lecture.*
This course examines the design and operation of pumps and motors with special emphasis on the types of pumps used in the water and wastewater industries.

# Welding

## Welding Technician

*Certificate of Achievement and Associate in Science*

**Program Description**

Designed to prepare the graduate for employment as a welder or a welder helper in the metal trades. The major types of welding covered are shielded arc, acetylene gas welding, metal inert gas, tungsten inert gas, automatic and semi-automatic welding machines.

The Certificate of Achievement can be obtained upon completion of the 15-unit Certificate Courses. The Associate in Science can be obtained by completing the 15-unit Certificate Courses, the 12-unit Associate Degree Courses, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis. Completion of this program prepares the student to take the welders' certification AWS D1.1 exam.

**Program Outcomes**

Students who complete the Welding Technician Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate competency in major welding processes used in industry.
2. Apply welding processes and the use of hand tools and shop equipment to fabricate projects.
3. Recognize and interpret technical drawings in the planning and fabrication of projects.
4. Demonstrate appropriate workplace safety policies and procedures during welding and fabrication operations.
5. Apply mathematical concepts to solve problems related to an industrial/technical environment.

| **CERTIFICATE COURSES** | **Units** |
|---|---|
| DRFT 079 Blueprint Reading | 3 |
| WELD 130 Beginning Shielded Metal Arc Welding (Stick 7018/6010 Basic) | 3 |
| WELD 131 Intermediate Shielded Metal Arc Welding (Stick Welding) | 3 |
| WELD 132 Advanced SMAW (Stick Welding) | 3 |
| IT 151 Vocational Mathematics | 3 |
| **Required Certificate Major Total Units** | **15** |

| **ASSOCIATE DEGREE COURSES** | **Units** |
|---|---|
| All Certificate Courses | 15 |
| IT 101 Introduction to Mechatronics | 3 |
| OCED 070 Occupational Soft Skills | 1.5 |
| OCED 071 Occupational Portfolio Development | 1.5 |
| WELD 136 Beginning Structural Steel and Flux Core Arc Weld (FCAW) | 3 |
| WELD 145 Intermediate Pipe Welding 7018 STK (SMAW) | 3 |
| **Required Associate Major Total Units** | **27** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# WELD - Welding

**WELD 130** **3.0 Units**
**Beginning Shielded Metal Arc Welding (Stick 7018/ 6010 Basic)**
*Non-transferable to CSU*
*Hours: 32-36 lecture, 48-54 lab*
Builds arc welding skills with an emphasis on flat and horizontal welding. Course activities prepare students for welding certification and advanced welding classes. Welding applications and parameters are discussed and applied throughout the class developing the student's ability to problem solve and develop welding skills.

**WELD 131** **3.0 Units**
**Intermediate Shielded Metal Arc Welding (Stick Welding)**
*Prerequisite**: WELD 130*
*Non-transferable to CSU*
*Hours: 32-36 lecture, 48-54 lab*
Advances arc welding skills with an emphasis on vertical and overhead welding. Course activities prepare students for welding certification and employment. Welding applications and parameters are discussed and applied throughout the class developing the students ability to problem solve, develop and enhance welding skills.

**WELD 132 Advanced SMAW (Stick Welding)** **3.0 Units**
*Prerequisite**: WELD 131*
*Non-transferable to CSU*
*Hours: 32-36 lecture, 48-54 lab*
Advances arc welding skills with an emphasis on vertical and overhead welding. Course activities prepare students for welding certification and employment in the metal trades. Welding applications and parameters are discussed and applied throughout the class developing the students ability to problem solve and develop welding skills.
This course is designed to enhance welding skills and employability in the field of structural iron working. This course also prepares the student for the American Welding Society plate code D1.1 unlimited thickness in all position certification.

**WELD 135 MIG (GMAW) Welding** **3.0 Units**
*Prerequisite**: WELD 130*
*Non-transferable to CSU*
*Hours: 32-36 lecture, 48-54 lab*
Advances the skills previously taught in WELD 130 and moves the student forward in a career of manufacturing and facilities maintenance. This course covers 2F, 3F and 4G positions (vertical and overhead positions). This course also covers Aluminum spool guns and 35 pound Stainless steel 304 and 308 wires.

**WELD 136** **3.0 Units**
**Beginning Structural Steel and Flux Core Arc Weld (FCAW)**
*Prerequisite**: WELD 130*
*Non-transferable to CSU*
*Hours: 32-36 lecture, 48-54 lab*
An emphasis on developing skills on structural steel and FCAW practices. Related instruction will include ferrous metal identification and welding characteristics, Flux core welding applications and variable, dual shield inert shielding gases and mixtures, troubleshoot FCAW equipment and welds completed in the flat and horizontal positions (1G and 2G).

**WELD 145** **3.0 Units**
**Intermediate Pipe Welding 7018 STK (SMAW)**
*Prerequisite**: WELD 130*
*Non-transferable to CSU*
*Hours: 32-36 lecture, 48-54 lab*
Pipe Welding code, pipe classification and identification with an emphasis on API 1104 certification. Completion of the class does not guarantee certification unless welding procedure qualification tests are passed.

**WELD 175 CNC Plasma (Cutting Automation)** **3.0 Units**
*Non-transferable to CSU*
*Hours: 32-36 lecture, 48-54 lab*
Educates students on automated plasma cutting skills and processes and related CNC metal working equipment.

**WELD 500 Independent Study** **0.0 Units**
*Prerequisite**: Permission of the instructor*
*Non-transferable to CSU*
*Hours by arrangement as required*
Assists with vocational placement for advanced welding students who have sufficient background in welding fundamentals to pursue more independent study in the area of their choice. Each student works by arrangement with the instructor on an outlined program of study, to achieve independent objectives. *This is an Open Entry/ Open Exit course.*

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# World Languages

## Associate in Arts in Spanish for Transfer (ADT: A.A.-T)

**Program Description**
The Associate in Arts Degree in Spanish for Transfer is for students who intend to complete a bachelor's degree in Spanish at a CSU. Students will take courses in Spanish required for Spanish majors. This program teaches writing, reading, speaking, listening and comprehension in the target language, as well as critical thinking skills in the context of engaging and processing cultural materials, with the intent to heighten cultural awareness and sensitivity to diversity.

Students who complete this degree will be guaranteed priority admission with junior status to the California State University system, though not to a particular campus or major. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

**To earn the Associate in Arts in Spanish for Transfer, students must:**

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth (CSU-GE Breadth) Requirements
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0
3. Complete all courses within the major with a minimum grade of C or P if taken on a Pass/No Pass basis

**Program Outcomes**
Students who complete the Associate in Arts in Spanish for Transfer, will be able to:

1. Build cultural awareness of Spanish-speaking cultures through comparison and contrast of linguistic variances, as well as various customs, societies, and institutions.
2. Demonstrate reading, writing, and analysis in Spanish at the intermediate/high to advanced proficiency level based on the ACTFL guidelines.
3. Demonstrate oral and aural abilities in Spanish at the intermediate/high to advanced proficiency level based on the ACTFL guidelines.

| **REQUIRED COURSES** | **Units** |
|---|---|
| SPAN 001 First Semester Spanish | 5 |
| SPAN 002 Second Semester Spanish | 5 |
| SPAN 003 Third Semester Spanish | 5 |
| SPAN 004 Fourth Semester Spanish | 5 |
| One course from List A | 3 |
| **Required Major Total Units** | **23** |

| **List A: (select one course)** | **Units** |
|---|---|
| HIST 031 Mexican American/Chicano History | 3 |
| SPAN 011 Conversational Spanish | 3 |
| SJS 002 Introduction to Race and Ethnicity | 3 |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# World Languages

## Foreign Languages, General

*Associate in Arts*

**Program Description**

This program introduces the fundamentals of language learning (listening, speaking, reading, writing, and culture) with emphasis on language production, grammar, syntax, vocabulary acquisition, and exposure to the culture. This program provides study in more than one language.

The Associate in Arts can be obtained by completing a minimum of 20 units from the major in the two different languages, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Foreign Languages, General Associate in Arts will be able to:

1. Converse in an intermediate level in two or more languages: American Sign Language (ASL), French, or Spanish
2. Demonstrate grammatical and semantic proficiency in paragraph or narrative mode (for ASL) at the intermediate-low level.
3. Understanding of cultural and community differences

**REQUIRED COURSES** ..... **Units**

*Select a minimum of 20 units combined from the different languages*.

**American Sign Language** ..... **Units**

ASL 001 American Sign Language 1 ..... 3
ASL 002 American Sign Language 2 ..... 3
ASL 003 American Sign Language 3 ..... 3
ASL 004 American Sign Language 4 ..... 3
ASL 005 American Deaf Culture ..... 3
ASL 006 Linguistics of American Sign Language ..... 3
ASL 052 Fingerspelling, Classifiers, and Numbers ..... 3
ASL 053 Introduction to American Sign Language Interpreting ..... 3

ASL 054 ASL Interpreting Field Work ..... 2
and
OCED 090 Occupational Work Experience ..... 1

**French** ..... **Units**

FREN 001 First Semester French ..... 5
or
FREN 031 First Semester French, Part 1 ..... 3
and
FREN 032 First Semester French, Part 2 ..... 3

FREN 002 Second Semester French ..... 5
FREN 003 Third Semester French ..... 5
FREN 004 Fourth Semester French ..... 5
FREN 011 Conversational French ..... 3
FREN 012 Intermediate French Conversation ..... 3

FLNG 101 Cross Age Teaching ..... 2
and
OCED 090 Occupational Work Experience ..... 1

**Spanish** ..... **Units**

SPAN 001 First Semester Spanish ..... 5
or
SPAN 031 First Semester Spanish, Part 1 ..... 3
and
SPAN 032 First Semester Spanish, Part 2 ..... 3

SPAN 002 Second Semester Spanish ..... 5
or
SPAN 033 Second Semester Spanish, Part 1 ..... 3
and
SPAN 034 Second Semester Spanish, Part 2 ..... 3

SPAN 003 Third Semester Spanish ..... 5
SPAN 004 Fourth Semester Spanish ..... 5
SPAN 011 Conversational Spanish ..... 3

FLNG 101 Cross Age Teaching ..... 2
and
OCED 090 Occupational Work Experience ..... 1

**Required Major Total Units ..... 20**

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# World Languages

## Foreign Languages, Individual (American Sign Language, French, or Spanish)

*Associate in Arts*

**Program Description**

This program introduces the fundamentals of language learning (listening, speaking, reading, writing, and culture) with emphasis on language production, grammar, syntax, vocabulary acquisition, and exposure to the culture. This program requires study be accomplished in one language only.

The Associate in Arts in American Sign Language, French, or Spanish can be obtained by completing a minimum of 18 units in one of the languages, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the Foreign Languages, Individual Associate in Arts will be able to:

1. Converse at an intermediate-mid level in one language: American Sign-Language (ASL), French, or Spanish
2. Demonstrate grammatical and semantic proficiency in paragraph or narrative mode (for ASL) at the intermediate-mid level in one language: American Sign Language (ASL), French, or Spanish
3. Demonstrate understanding of cultural and community differences

**REQUIRED COURSES**

**American Sign Language (select 18 units) ..... Units**

ASL 001 American Sign Language 1 ..... 3
ASL 002 American Sign Language 2 ..... 3
ASL 003 American Sign Language 3 ..... 3
ASL 004 American Sign Language 4 ..... 3
ASL 005 American Deaf Culture ..... 3
ASL 006 Linguistics of American Sign Language ..... 3
ASL 052 Fingerspelling, Classifiers, and Numbers ..... 3
ASL 053 Introduction to American Sign Language Interpreting ..... 3

ASL 054 ASL Interpreting Field Work ..... 2
and
OCED 090 Occupational Work Experience ..... 1

**French (select 18 units) ..... Units**

FREN 001 First Semester French..... 5
or
FREN 031 First Semester French, Part 1 ..... 3
and
FREN 032 First Semester French, Part 2 ..... 3

FREN 002 Second Semester French..... 5
FREN 003 Third Semester French ..... 5
FREN 004 Fourth Semester French..... 5
FREN 011 Conversational French ..... 3
FREN 012 Intermediate French Conversation..... 3
FREN 049 French Honors..... 1-3

FLNG 101 Cross Age Teaching ..... 2
and
OCED 090 Occupational Work Experience ..... 1

**Spanish (select 18 units) ..... Units**

SPAN 001 First Semester Spanish ..... 5
or
SPAN 031 First Semester Spanish, Part 1..... 3
and
SPAN 032 First Semester Spanish, Part 2..... 3

SPAN 002 Second Semester Spanish ..... 5
or
SPAN 033 Second Semester Spanish, Part 1 ..... 3
and
SPAN 034 Second Semester Spanish, Part 2 ..... 3

SPAN 003 Third Semester Spanish..... 5
SPAN 004 Fourth Semester Spanish ..... 5
SPAN 011 Conversational Spanish ..... 3
SPAN 049 Spanish Honors ..... 1-3

FLNG 101 Cross Age Teaching ..... 2
and
OCED 090 Occupational Work Experience ..... 1

**Required Major Total Units.....18**

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# American Sign Language

## ASL/English Interpreter Training

*Certificate of Achievement and Associate in Arts*

**Program Description**

The ASL program provides a foundation of interpreting skills for students seeking to transfer to a four-year institution in order to become an interpreter. The coursework presents American Sign Language in a cross-cultural context, addressing the ethics and standards expected of a professional interpreter.

The Certificate of Achievement can be obtained upon successful completion of the 27-unit major. The Associate in Arts can be obtained upon completion of the major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

**Program Outcomes**

Students who complete the ASL/English Interpreter Training Certificate of Achievement/Associate in Arts will be able to:

1. Sign effectively, using appropriate skills, in working with the Deaf and Hard of Hearing.
2. Demonstrate an understanding of Deaf culture, and the ethics and standards of professional ASL environment.

| **REQUIRED COURSES** | **Units** |
|---|---|
| ASL 001 American Sign Language 1 | 3 |
| ASL 002 American Sign Language 2 | 3 |
| ASL 003 American Sign Language 3 | 3 |
| ASL 004 American Sign Language 4 | 3 |
| ASL 005 American Deaf Culture | 3 |
| ASL 006 Linguistics of American Sign Language | 3 |
| ASL 052 Fingerspelling, Classifiers, and Numbers | 3 |
| ASL 053 Introduction to American Sign Language Interpreting | 3 |
| ASL 054 ASL Interpreting Field Work | 2 |
| OCED 090 Occupational Work Experience | 1 |
| **Required Major Total Units** | **27** |

*Consult with your **counselor** for guidance on custom course pathway*
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
*To look up current section offerings and CRNs visit the **Class Finder**. To register for classes log in to **MySolano***

# ASL - American Sign Language

**ASL 001 American Sign Language 1 3.0 Units**
*Transferable to UC/CSU*
*General Education: SCC: Area D; IGETC: Area 6; CSU: Area C2*
*Hours: 48-54 lecture.*
Introduction to the culture and language of the deaf in this country. The course includes the acquisition of Fingerspelling skills and basic functional vocabulary of ASL. In addition to fluency in these two separate skills, the student will acquire basic knowledge of ASL syntax and nonverbal aspects of ASL, a history of the deaf in the country and deaf education, variations in Manual Communication, and the Culture of the Deaf. There will be both written and signed examinations, a research project, homework assignments, and individual examinations to demonstrate competency in both expressive and receptive ASL. Students will be expected to acquire a vocabulary of approximately 500 words (signs) and be proficient in Fingerspelling.

**ASL 002 American Sign Language 2 3.0 Units**
*Prerequisite**: ASL 001*
*General Education: IGETC: Area 6; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Emphasis on vocabulary expansion, introduction to ASL idiomatic expressions and information regarding the ethics and process of becoming a sign language interpreter. Assessment of competency is accomplished through written and communicative examinations. Some interaction with the deaf population is required.

**ASL 003 American Sign Language 3 3.0 Units**
*Prerequisite**: ASL 002*
*General Education: IGETC: Area 6: CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
A focus on the grammatical structure of American Sign Language and how it has been influenced throughout history, by society, and other cultures in America. Students will develop their vocabulary, not through rote memorization, but through emphasis on receptive and expressive modes of communication; they will learn how to develop their own styles.

**ASL 004 American Sign Language 4 3.0 Units**
*Prerequisite**: ASL 003*
*General Education: IGETC: Area 6*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
An advanced course designed to increase vocabulary, examine the use of semantic and body classifiers, expand and develop conversational signing ability through the use of appropriate grammar structures and storytelling. Popular Deaf culture stories are learned through the development of storytelling techniques. The rich heritage of Deaf people is studied through biographies of those who are famous for their contribution.

**ASL 005 American Deaf Culture 3.0 Units**
*General Education: SCC: Area D; IGETC: Area 3B; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Exploration of American Deaf Culture with historical and cultural overview of the American Deaf community and its language, American Sign Language (ASL). Fundamental sociological and anthropological theories will be discussed. Students will be given an opportunity to study and understand the following: minority group dynamics, attitudes and behavioral characteristics of the oppressed and oppressors, and the liberation movements. Analysis of the relationship of ASL to the history of the American Deaf community will be conducted.

**ASL 006 3.0 Units**
**Linguistics of American Sign Language**
*Prerequisite**: ASL 002*
*General Education: CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Applies knowledge of linguistics (e.g., phonetics, phonology, syntax, semantics) to signed languages, especially ASL. Students will learn about aspects of the language that are specific to signing, such as using three-dimensional space as grammatical tools. Students will compare ASL to other signed languages to further explore how these linguistic aspects differ between signed languages.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
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# ASL - American Sign Language

**ASL 052** **3.0 Units**

**Fingerspelling, Classifiers, and Numbers**

*Prerequisite**: ASL 001 (may enroll concurrently)*
*Transferable to CSU*
*Hours: 48-54 lecture*

Solidifies fingerspelling, numbers, and classifiers to the point where they can reliably be leveraged in an expressive and receptive manner. The focus of the course is on recognition and use of fingerspelling, numbers, and classifiers in different contexts.

**ASL 053** **3.0 Units**

**Introduction to American Sign Language Interpreting**

*Prerequisite**: ASL 002*
*Transferable to CSU*
*Hours: 48-54 lecture*

Introduction to professional conduct, variety of interpreter work settings, and interactions with the populations served.

**ASL 054 ASL Interpreting Field Work** **2.0 Units**

*Prerequisite**: ASL 003*
*Corequisite: OCED 090*
*Transferable to CSU*
*Hours: 32-36 lecture*

Prepares students for the profession of ASL interpreting by providing field work in which students can observe different scenarios and apply skills learned in the classroom. Weekly seminars will explore how ASL interpreters learn discourse mapping, a systematic approach for analyzing texts to produce successful, effective interpretations. Through a co-requisite of OCED 090 students will work in a real world environment to practice the techniques discussed in class.

**ASL 055** **3.0 Units**

**Interpreting 1: Consecutive Interpreting**

*Prerequisite**: ASL 053*
*Transferable to CSU*
*Hours: 48-54 lecture*

Building and improving basic receptive and expressive sign language interpretation skills emphasizing the development of consecutive ASL to English and English to ASL.

**ASL 056** **3.0 Units**

**Interpreting 2: Simultaneous Interpreting**

*Prerequisite**: ASL 053*
*Transferable to CSU*
*Hours: 48-54 lecture*

Advanced simultaneous interpreting skills that can be applied in both ASL to English and English to ASL interpretation. Topics include: research and analysis of the simultaneous interpreting process, interpreting models and how to apply them in various work environments, and the basis of ethical decision making within the field of sign language interpreting.

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# FREN - French

**FREN 001 First Semester French 5.0 Units**
*General Education: SCC: Area D; IGETC: Area 6; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 80-90 lecture*
Introduces the fundamental elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, acquisition of a practical vocabulary, and exposure to French-speaking cultures. "The French language has been a key instrument of imperialism. We will explore accompanying issues of power as they relate to race, ethnicity, class, gender, and language." *NOTE: Not open for credit to students who have had two or more years of high school French with a minimum grade of B within the last three years or to students who have completed FREN 031 and/or 032.*

**FREN 002 Second Semester French 5.0 Units**
*Prerequisite**: FREN 001; FREN 032; or two years of high school French*
*General Education: IGETC: Area 3B, 6; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 80-90 lecture*
Continuation of FREN 001. Continues students; introduction to the fundamentals of French (listening, speaking, reading, writing and culture) with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary, and exposure to French-speaking cultures. "The French language has been a key instrument of imperialism. We will explore accompanying issues of power as they relate to race, ethnicity, class, gender, and language."

**FREN 003 Third Semester French 5.0 Units**
*Prerequisite**: FREN 002; or three years of high school French*
*General Education: IGETC: Area 3B, 6; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 80-90 lecture*
A continuation of FREN 002. This course teaches culture and facilitates language acquisition through listening, speaking, reading and writing. Students will continue to interact with authentic language in context and express personal meaning, using different strategies and techniques that go beyond casual conversations, in order to express opinions, make suggestions on familiar topics, discuss some abstract issues, and make plans. Students will demonstrate the ability to think critically by analyzing linguistic structures and reflecting on and making cross-cultural comparisons. Students will demonstrate an increased awareness of cultural norms, values, and culturally relevant appropriate customs and events. This course will be taught in French. "The French language has been a key instrument of imperialism. We will explore accompanying issues of power as they relate to race, ethnicity, class, gender, and language."

**FREN 004 Fourth Semester French 5.0 Units**
*Prerequisite**: FREN 003*
*General Education: IGETC: Area 3B, 6; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 80-90 lecture*
Continuation of French 003. Reviews and expands knowledge of elements previously learned, while introducing new material. Exposure to the culture and thinking of the French-speaking world. Extensive work is done in reading, writing and conversing in French. "The French language has been a key instrument of imperialism. We will explore accompanying issues of power as they relate to race, ethnicity, class, gender, and language."

# FREN - French

**FREN 011 Conversational French 3.0 Units**
*Prerequisite**: FREN 002 or FREN 034*
*General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
FREN 011 is a skills course that synthesizes and applies the linguistic elements presented in FREN 001 - FREN 002 (i.e., grammar, vocabulary, etc.) so that students can practice them in oral language production. Selected short cultural readings, grammatical concepts, and specific thematic vocabulary may be reviewed briefly to generate and facilitate oral communication. However, the emphasis of this course primarily is on building oral proficiency within authentic cultural contexts at the intermediate level. "The French language has been a key instrument of imperialism. We will explore accompanying issues of power as they relate to race, ethnicity, class, gender, and language."

**FREN 031 First Semester French, Part I 3.0 Units**
*General Education: SCC: Area D; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Introduces the basic elements of language (listening, speaking, reading, writing and culture), with emphasis on language production, grammar, syntax, vocabulary building, and exposure to French-speaking cultures. "The French language has been a key instrument of imperialism. We will explore accompanying issues of power as they relate to race, ethnicity, class, gender, and language." *NOTE: In order to fulfill the one semester of FREN 001 requirement of some universities, transfer students must complete the sequence of FREN 031-032. NOTE: Not open for credit to students who have received credit for FREN 001 or to students who have had two or more years of high school French with a minimum grade of B within the past three years.*

**FREN 032 First Semester French, Part II 3.0 Units**
*Prerequisite**: FREN 031 or one year of high school French*
*General Education: SCC: Area C; IGETC: Area 6; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
Continuation of FREN 031. Continues students' introduction to the fundamental elements of the language (listening, speaking, reading, writing and culture), with continued emphasis in language production, grammar, syntax, vocabulary building, and exposure to French-speaking cultures. (NOTE: In order to fulfill the one-semester foreign language requirement of some universities, transfer students must complete the sequence of FREN 031 and FREN 032.) "The French language has been a key instrument of imperialism. We will explore accompanying issues of power as they relate to race, ethnicity, class, gender, and language."*NOTE: Not open for credit to students who have completed FREN 001 or who have had two or more years of high school French with a minimum grade of B within the last three years.*

**FREN 049 French Honors 1.0 to 3.0 Units**
*Prerequisite**: Completion of 24.0 units of college credit with a minimum GPA of 3.3; a minimum of 5.0 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability*
*Transferable to CSU*
*Hours: 48-162 lab by arrangement*
Independent study and research, by arrangement with the instructor, in specified fields of study in French or creative writing in French. "The French language has been a key instrument of imperialism. We will explore accompanying issues of power as they relate to race, ethnicity, class, gender, and language."*Students may take this course up to the maximum number of units over multiple semesters.*

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your **counselor***
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*
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# SPAN - Spanish

**SPAN 001 First Semester Spanish 5.0 Units**

*C-ID: SPAN 100*
*General Education: SCC: Area D; IGETC: Area 6; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 80-90 lecture*

Introduces the fundamental elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, acquisition of a practical vocabulary, and exposure to Spanish-speaking cultures. The Spanish (Castilian) language has been a key instrument of imperialism. We will explore accompanying issues of power as they relate to race, ethnicity, class, gender, and language. *NOTE: Not open for credit to students who have had two or more years of high school Spanish with a minimum grade of B within the last three years or to students who have completed SPAN 001S; or SPAN 031 and/or 032; or SPAN 061M and/or 062M.*

**SPAN 002 Second Semester Spanish 5.0 Units**

*C-ID: SPAN 110*
*Prerequisite**: SPAN 001, SPAN 001S, SPAN 032, SPAN 062M, or two years of high school Spanish with a minimum grade of C*
*General Education: IGETC: Area 3B, 6; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 80-90 lecture*

Following SPAN 001, students continue to explore the fundamentals of Spanish (listening, speaking, reading, writing and culture) with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary through authentic language in cultural contexts. The Spanish (Castilian) language has been a key instrument of imperialism. We will explore accompanying issues of power as they relate to race, ethnicity, class, gender, and language. *NOTE: Not open to students who have completed SPAN 002S; SPAN 033 and/or 034; or SPAN 063M and/or 064M.*

**SPAN 003 Third Semester Spanish 5.0 Units**

*C-ID: SPAN 200*
*Prerequisite**: SPAN 002, SPAN 002S, SPAN 034, SPAN 064M, or three years of high school Spanish with a minimum grade of C*
*General Education: IGETC: Area 3B, 6; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 80-90 lecture*

A continuation of SPAN 001 and 002, this course focuses on language acquisition through listening, speaking, reading and writing. It also explores various cultures of the Spanish-speaking world and promotes growth in cultural responsiveness while encouraging intermediate-level linguistic proficiency. The Spanish (Castilian) language has been a key instrument of imperialism. We will explore accompanying issues of power as they relate to race, ethnicity, class, gender, and language. *This course will be taught in Spanish.*

**SPAN 004 Fourth Semester Spanish 5.0 Units**

*C-ID: SPAN 210*
*Prerequisite**: SPAN 003 or four years of high school Spanish*
*General Education: IGETC: Area 3B, 6; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 80-90 lecture*

This course provides a general review of the Spanish language, as presented in SPAN 001, SPAN 002, and SPAN 003, and introduces students to cultural materials--poetry, short stories, documentaries, interviews, etc.--to focus on continued language acquisition through listening, speaking, reading and writing in authentic contexts. The course explores the cultural diversity of the Spanish-speaking world and promotes growth in cultural responsiveness while encouraging intermediate-level linguistic proficiency. This course is taught in Spanish. The Spanish (Castilian) language has been a key instrument of imperialism. We will explore accompanying issues of power as they relate to race, ethnicity, class, gender, and language. *This course will be taught in Spanish*.

# SPAN - Spanish

**SPAN 011 Conversational Spanish 3.0 Units**
*Prerequisite**: SPAN 002, SPAN 02S, SPAN 034, or SPAN 064M*
*General Education: IGETC: Area 3B, 6; CSU: Area C2*
*Transferable to UC/CSU*
*Hours: 48-54 lecture*
SPAN 011 is a skills course that synthesizes and applies the linguistic elements presented in SPAN 001 and SPAN 002 (i.e., grammar, vocabulary, etc.) so that students can practice them in oral language production. Selected short cultural readings, grammatical concepts, and specific thematic vocabulary may be reviewed briefly to generate and facilitate oral communication. However, the emphasis of this course primarily is on building oral proficiency within authentic cultural contexts at the intermediate level. The Spanish (Castilian) language has been a key instrument of imperialism. We will explore accompanying issues of power as they relate to race, ethnicity, class, gender, and language.

**SPAN 049 Spanish Honors 1.0 to 3.0 Units**
*Prerequisite**: Completion of 24.0 units of college credit with a minimum GPA of 3.3; a minimum of 5.0 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability*
*Transferable to CSU*
*Hours: 48-162 lab by arrangement*
Independent study and research, by arrangement with the instructor, in specified fields of study in Spanish or creative writing in Spanish. The Spanish (Castilian) language has been a key instrument of imperialism. We will explore accompanying issues of power as they relate to race, ethnicity, class, gender, and language.

**SPAN 070 Spanish for the Professions 5.0 Units**
*Prerequisite**: SPAN 004*
*Non-Transferable to UC or CSU*
*Hours: 80-90 lecture*
This course is geared towards high-intermediate and advanced Spanish/English-speaking students who wish to develop their communication skills and cultural knowledge in order to apply these to community work environments. The focus will be on Spanish/English vocabulary-building; Spanish grammar review for applied work situations; analysis of linguistic and cultural differences among Spanish-speaking communities; problem-solving potential challenges and finding solutions for successful bilingual language use.

**SPAN 071 5.0 Units**
**Introduction to Spanish/English Community Interpreting**
*Prerequisite**: SPAN 004*
*Non-Transferable to UC or CSU*
*Hours: 80-90 lecture*
An overview of interpreting within healthcare, human services, education, and other community settings. This course will present state and national standards, ethics, protocols, skill sets, vocabulary, and linguistic requirements for various interpreting environments.

**SPAN 101 1.0 Unit**
**Cross Age Teaching in Spanish**
*Corequisite**: OCED 090 and SPAN 002*
*Non-Transferable to UC or CSU*
*Hours: 32-36 lecture*
This class gives students the opportunity to teach basic Spanish weekly in two local elementary schools. Students will participate in weekly seminars and explore how children learn and develop understanding in Spanish. Working with a peer partner or partners, students will prepare lesson plans and develop curriculum. This course has a co-requisite OCED 090. Students will work in elementary school classes in Solano County to provide language instruction based on the developed lesson plans. The Spanish (Castilian) language has been a key instrument of imperialism. We will explore accompanying issues of power as they relate to race, ethnicity, class, gender, and language.

**SPAN 175 1.0 Unit**
**Spanish/English Communication Experience Seminar**
*Corequisite**: OCED 091 and SPAN 071*
*Non-Transferable to UC or CSU*
*Hours: 16-18 lecture*
An advanced examination of bilingual communication skills in the workplace. Exercises in problem-solving with case studies, video observations, and specific examples. Concurrent enrollment in a 1-unit OCED 091 course required in an approved community service setting.

# SPAN - Spanish

**SPAN 181** **5.0 Units**

**Fundamentals of Healthcare Interpreting**

*Prerequisite**: SPAN 004*
*Non-Transferable to UC or CSU*
*Hours: 80-90 lecture*

Bilingual individuals will further develop their knowledge and skills for effective language interpretation in healthcare settings. The course will focus on the roles, ethical responsibilities, and protocols that healthcare interpreters must assume, and it will provide basic dual-language knowledge of common medical conditions, treatments, and procedures. Students will continue to explore cultural and linguistic nuances that affect communication exchanges.

**SPAN 182** **3.0 Units**

**Skill-Building Practices for Spanish/English Healthcare Interpreting**

*Prerequisite**: SPAN 181*
*Non-Transferable to UC or CSU*
*Hours: 48-54 lecture*

In this course, students will observe and analyze healthcare interpreting encounters, and practice the three modes extensively: consecutive, simultaneous and sight translation. Students will participate in role-playing scenarios, and offer and receive critiques for improvement. The course focus will be on more advanced specialized healthcare service areas, such as genetics, mental health, men's health, women's health, children's health, and death and dying. Continued practice of language skills and cultural awareness.

**SPAN 185** **1.0 Unit**

**Spanish/English Healthcare Interpreting Experience Seminar**

*Corequisite**: OCED 090 and SPAN 182*
*Non-Transferable to UC or CSU*
*Hours: 16-18 lecture*

An examination of advanced interpreting skills in the areas of healthcare environments and situations, using the three modes of interpreting, vocabulary usage, command of communicative strategies, navigating cultural issues in the context of differing values, beliefs and regional language. Exercises in problem-solving with case studies, video observations, and specific examples.Concurrent enrollment in a 1-unit OCED 090 course required in an approved healthcare setting.

# Faculty & Administration

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# Faculty & Administration

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Sloan, Robin
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Young, Patricia - Career and Employment Services Center

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Dayrit, Leon
Inglr, Henry
Johnson, Jason
Leos, David
Quezada, Arthur
Travis, Brian - Chief
Williams, Bryant

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Calderon, Parichat "Mint"
Drake, Sabrina
Hawkins, Katherine
Smith, Dyan
Rothwell, Phoenix
Spann, Patricia
Stedman, Lisa
Tarbell-DeOcampo
Takhar, Jotinder
Vartanian, Juwan

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Johnston, Curt - Director

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Balabis, Gavino
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Corpus, Manuel
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Cunningham, Vernon
Del Pilar, Eduardo
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Ercole, Taylor
Estantino, Teddy
Finley, Paul C.
Garcia, Arthur
Gonzales Garcia, Oscar
Gonzalez, Danielle “Dani”
James, Steven
Kassa, Kahsay
Lehfeldt, Jeffery
Lofton, Lucky - Director
Lor, Pitou
Loza, Isaias
Moreno, David
Murillo, Alfredo "Danny"
Porter, Herman
Robinson, Laura
Rose, Michael D
Russo, Gloria
Salinas, Alfonso
Srisung, Padungsak
Trujillo, Kelly
Uquillas, Jerry
Willmschen, Keith
Yi, Jason - Project Mgr, Bond

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Hammond, Zachary
Hernandez, Sandra
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Macaraeg, Darah
Madrigal, Amada
Olsen, Kristina
Rodriguez, Carolina
Troupe, Anna Marie
Troupe-Gardner, Antoinette

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Disu, Carmine
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Malone, Handel - Purchasing
Nalley, Anita
Ramirez, Sylvia
Rodriguez-Valenzuela, Ricardo
Sanchez, Edith
Scott, Laura - Purchasing
Huang, Zhiyan

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Drake, Tracy
Meachum, Amy
Mitchell, Karen
Vest, Tracy

# Staff & Administration

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Leal, Jose "Rei"
Nunez, Robert
Swanson, Steven G
Tanaka, Ray
Tenty, Claudia
Tom, Galen
Weng, Tingan
Zavala, Pete

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Bains, Rashmi
Maguire, Carla

**OUTREACH**
Briseno, Jesus
Danby, Shannon

**RESEARCH & PLANNING**
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Johnson, Shilah

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Crompton, Jill
Gravely, Barbara
Miranda, Maria
Suriben, Ritzdane
Williams, Andre

**HEALTH SCIENCES**
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Vest, Tracy

**LIBERAL ARTS**
Jones, Leigh Anne
Laws, Sidney
Scharfen, Craig

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Castillo, Jonathan
Eason, Angela
Eleazar, Iralyn
Jackson Barajas, Haylee
Robinson, Deirdre

**SOCIAL & BEHAVIORAL SCIENCES**
Leary, Janet

**SMALL BUSINESS**
Eason, Charles

**STUDENT LIFE**
Slade, Rischa

**STUDENT SERVICES**
Casimere, Tiffany

**SUPERINTENDENT-PRESIDENT, OFFICE**
Therrien, Alexandra “Sandra”

**VACAVILLE CENTER**
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Graham, Debbie L. - A & R
Kucala, Christine
Liu, Calvin
Low, Jennifer
Perkins, Chavisnna - A & R

**VALLEJO CENTER**
Camins, Irene
Hernandez, Sandra
Mayne, Marie - A & R

**VETERANS RESOURCE CENTER**
Amy Kennedy

**WAREHOUSE**
Barron-Griffin, Connie
Loza, Porfirio - Courier

# Telephone Directory

Solano Community College Main Line - (707) 864-7000
Web Site: ***www.solano.edu***

*Solano Community College's main telephone line is an automated system All direct lines and extensions have 24-hour voicemail.*

Academic Affairs ..... 864-7102
Aeronautics/Nut Tree ..... 864-7185
Admissions and Records ..... 864-7171
Associated Students Solano College (ASSC) ..... 864-7268
Assessment Center ..... 864-7000 ..... ext. 4525
ASTC (Academic Success and Tutoring Center) ..... 864-7230
ASTC-STEM ..... 864-7000 ..... ext. 4498
Athletics ..... 864-7119
Automotive Technology Center ..... 864-7151
Bookstore ..... 864-7111
CalWORKs ..... 864-7000 ..... ext. 4645
Cafeteria ..... 863-7887
Campus Sheriff's Office ..... 864-7131
Campus Sheriff's Office (After Hours) ..... 580-6526
Canvas/Distance Education ..... 864-7133
Career and Employment Services Center ..... 864-7124
Community Services/Facility Rentals ..... 864-7000 ..... ext. 4400
Cosmetology Receptionist ..... 864-7180
Counseling ..... 864-7101
Disability Services Program (DSP) ..... 864-7136
Early Learning Center ..... 864-7182
Educational Foundation ..... 864-7141
English Lab ..... 864-7239
EOPS/CARE ..... 864-7000 ..... ext. 4444
Finance and Administration ..... 864-7147
Financial Aid ..... 864-7103
Fire Academy ..... 864-7000 ..... ext.4582
Human Resources ..... 864-7128
International Education Program (SIEP) ..... 864-7171
Library Circulation/
Library Reference Desk ..... 864-7000 ..... ext. 4519
Lost and Found ..... 864-7168
Maintenance and Operations ..... 864-7197
Math Activities Center (MAC Lab) ..... 864-7138
Occupational Work Experience ..... 864-7139
Parking Information ..... 864-7113
School of:
Applied Technology and Business ..... 864-7229
Health Sciences ..... 864-7108
Liberal Arts ..... 864-7114
Mathematics and Sciences ..... 864-7211
Social and Behavioral Sciences ..... 864-7251
Student Health Center and Services ..... 864-7163
Superintendent-President ..... 864-7299
Student Life Center ..... 864-7168
Student Services Office ..... 864-7173
Travis Air Force Base Center ..... 424-2431
Technology Support Services/
Help Desk ..... 864-7000 ..... ext. 4690
Theatre Box Office ..... 864-7100
Transfer Center ..... 864-7158
UMOJA Office ..... 864-7134
Vacaville Center ..... 863-7836
Vallejo Center ..... 642-8188
Veterans Resource Center ..... 864-7105

# Glossary

**Academic Year** - Consists of the summer session and fall semester of one calendar year and the spring semester of the following calendar year.

**Accredited Institution** - A college or university which has been accredited by an institutional accrediting body which is recognized by the Council on Postsecondary Accreditation and the U.S. Department of Education.

**Add** - Officially enrolling in a course.

**Area of Study** - A broad area of academic interest identified by a three- to four-digit alpha code for example Psychology (PSYC) or Art (ART).

**Articulation -** The process of developing a formal, written agreement that identifies courses (or sequences of courses) from a "sending"campus that are comparable to, or acceptable in lieu of specific course requirements at a "receiving" campus.

**ASC -** Accessibility Services Center offers academic support services for students with physical, communication, learning, or psychological disabilities.

**Assessment/Placement Tests** - Tests given prior to registration in classes. The results are used to determine the student's placement at the most appropriate class level. Some placement may be based on other criteria, like High School grades or courses taken. See the Placement Center for details. Per AB705 assessment is no longer required to enroll in English or Math classes.

**ASSIST** - A computerized student-transfer information system that can be accessed over the World Wide Web. It displays reports of how course credits earned at one California college or university can be applied when transferred to another. ASSIST is the official repository of articulation for California's colleges and universities and therefore provides the most accurate and up-to-date information available about student transfer in California. The ASSIST web site is***: www.assist.org.***

**Associate Degree (A.A. or A.S.)** - A degree (Associate in Arts or Associate in Science) granted by a community college which recognizes a student's satisfactory completion of an organized program of study of at least 60 units, including the major and general education requirements.

**Associate Degree for Transfer (AD-T)** - An Associate Degree for Transfer (ADT) is a guaranteed pathway for transfer into the California State University (CSU) system. After earning an Associate of Arts for Transfer (AA-T) or Associate of Science for Transfer (AS-T) degree, students will be guaranteed admission to a CSU campus with junior standing.

**Attempted Hours (AH)** - Total number of units in the courses for which a student has enrolled and received a grade of A, B, C, D or F.

**Bachelor's Degree (B.A., A.B., or B.S.)** - A degree granted by a four-year college or university which recognizes a student's satisfactory completion of an organized program of study consisting of at least 120 semester units. Solano Community College offers a B.S. in Biomanufacturing.

**CalWORKs** - California Work Opportunities and Responsibility to Kids program is available at Solano Community College. Students in this program will be referred by Solano or Yolo County Social Welfare Departments. This welfare-to-work program will enable welfare recipients to attain job training skills.

**CARE** - Cooperative Agency Resources for Education (CARE) is a supplemental component of EOPS that specifically assists EOPS students who are single heads of welfare households with young children, by offering supportive services so they are able to acquire the education, training and marketable skills needed to transition from welfare-dependence to employment and eventual self-sufficiency for their families. Every CARE student is an EOPS student who must meet the eligibility criteria for both programs.

**Canvas** - The Learning Management System used by Solano Community College to deliver online courses. Class materials, assignments and communications are accessed through the Canvas website.

**Certificate of Achievement** - A certificate granted by a community college which recognizes a student's satisfactory completion of an organized program of vocational study in the major.

**Class Section** - Specific class meetings of a Course identified by a Course Reference Number or CRN. See Course Reference Number (CRN).

# Glossary

**College Work Study (CWS)** - A program of federal aid which provides funds for student jobs.

**Community Education Course** - Fee-based, not for credit courses offered through the College.

**Concurrent Enrollment** - Taking one course at a CSU or UC campus while also enrolled at Solano Community College. Also refers to high school students enrolled in a college course.

**Corequisite** - There are two types of corequisites. The first is a course or equivalent preparation that must be taken concurrently with another course. The second is a course or equivalent preparation that may be completed before OR taken concurrently with another course. Both types of corequisites are listed under "Prerequisites," but the second type is followed by the parenthetical phrase "may be taken concurrently." A student's enrollment in a course with a corequisite is blocked until the requirements of the corequisite are satisfied.

**Course** - A particular topic within an area of study. This is identified by a course number. See "Course Number."

**Course Advisory** - A course or equivalent preparation that will broaden or deepen a student's learning experience in a subsequent course. A student's enrollment in a course with an advisory is not blocked for lack of the advisory skills.

**Course Description** - Brief statement about the content of a particular course.

**Course Number** - A three- to four-digit number or alphanumeric number to identify a particular subject topic for example, Psychology 001 (PSYC 001) or Kinesiology (KINE) 006E.

**Course Reference Number (CRN)** - The 5-digit number assigned to a specific class section each semester. Starting with 1 for Spring, 6 for Summer and 8 for fall.

**Credit** - Refers to the units earned by completing a class.

**Credit-by-Examination** - Course or unit credit granted for demonstrated proficiency in a given area as determined by an examination.

**CSU** - California State University System. The CSU web site is ***www.calstate.edu***.

**Degrees** - A diploma granted by a college stating that the student has attained a certain level of ability in a specific field. The most common degrees are:

1) A.A.— Associate in Arts;
2) A.S.— Associate in Science;
3) B.A.— Bachelor of Arts;
4) B.S.— Bachelor of Science;
5) M.A.—Master of Arts;
6) Ph.D.—Doctor of Philosophy; and
7) Ed.D.—Doctor of Education.

**Disqualification** - A situation caused by low academic or progress performance, in which the disqualified student may not continue at the college without approval for readmission. See Catalog section on Academic Regulations.

**Drop** - Selectively withdrawing from a course, but remaining enrolled in college.

**Drop Dates** - 1) Last day to drop a class with no course or grade recorded (at the 30% point of the class); 2) Last date to drop a class with "W" grade recorded (at the 62.5% point of the class).

**DSP** - Disability Services Program offers supportive services for students with physical, communication, learning or psychological disabilities or other medical problems.

**Elective** - Courses which are not required for the major or general education but are acceptable for credit. An elective course may be in the student's major area of study or any department of a college.

**EOPS** - Extended Opportunity Programs and Services (EOPS) primary goal is to encourage the enrollment, retention and transfer of students disadvantaged by language, social, economic and educational circumstances, and to facilitate the successful completion of their goals and objectives in college. EOPS offers academic and support counseling, financial aid and other support services.

**EUREKA** - A computerized career information system available to students in the College Career and Employment Services Center.

**Full-time Student** - A student taking twelve or more class units in a regular Fall/Spring semester or six units in Summer.

# Glossary

**General Education Requirements** - Courses covering the broad area of thought and experience common to every person.

**Good Standing** - Indicates that a student's grade point average in the previous semester and cumulative grade point average is C (2.0) or better.

**Grade Points** - The numerical value of a college letter grade, A=4, B=3, C=2, D=1, others=0.

**Grade Point Average** - Grade point average (GPA) indicates an overall level of academic achievement. It is an important measure used in making decisions on probation and disqualification, eligibility for graduation, and transfer to four-year institutions. The grade point average is derived from the following unit system:

A = 4 grade points per unit
B = 3 grade points per unit
C = 2 grade points per unit
D = 1 grade point per unit
F = 0 grade points per unit

The GPA is calculated by dividing the total number of grade points received by the number of units attempted.

**Guided Pathways** - A highly structured approach to student success that provides students with a set of clear course-taking patterns that promotes better enrollment decisions and integrates support services in ways that make it easier for students to get the help they need.

**Honors** - These courses are designated with the course number "049" or "099" in the discipline in which they are offered. These courses have prerequisites. Please see the dean of the appropriate discipline area for more information.

**Hour** - Same as credit, credit unit, unit (See Credit).

**Hybrid Course** - A class presented using a combination of instructional formats. Both in-class and online instruction, assignments, and activities are included in hybrid courses.

**IGETC** - Intersegmental General Education Transfer Curriculum. Completion of the IGETC will permit a student to transfer from a community college to a campus in either the California State University or University of California system without the need, after transfer, to take additional lower-division, general education courses to satisfy campus G.E. requirements. (See counselor for exceptions).

**Independent Study** - Opportunity to do individual study in areas not covered in a regular course.

**Job-Direct Certificate** - A certificate granted by Solano College which recognizes a student's satisfactory completion of a shortened program of study specifically designed to prepare students for employment in the identified field.

**Late Start** - Courses or programs offered in an accelerated mode. Some courses can be completed in less than a semester. Some programs can be completed in less time than normally offered programs.

**Learning Community** - A class where students work together with a team of instructors from different subject areas to study a theme or question. Learning community classes involve less traditional lecture and more seminar, discussion, and group activities.

**Learning Disability Program** - This program offers specialized services and instruction to students that have been identified as learning disabled.

**Lower Division** - Courses at the freshmen and sophomore level of college.

**Major** - An organized program of courses leading to an Associate Degree or Occupational Certificate.

**Matriculation** - A process which brings a college and a student who enrolls for credit into an agreement for the purpose of realizing the student's educational objective. A primary part of matriculation is the assessment, orientation, and counseling of new nonexempt students. The following students are exempted from the matriculation process:

1) Students who have completed an Associate degree or higher;
2) students who seek to enroll in noncredit courses only;
3) students indicating an education goal of job skills (to maintain current job), personal interest (not for employment), complete credits for high school, or maintain certificate or license (i.e., nursing, real estate).

**Minor** - The subject field of study which a student chooses for secondary emphasis.

# Glossary

**MySolano** - A web-based portal for students to look up classes, register for classes, get grades, request transcripts, get news and information, email and more visit ***www.solano.edu.***

**Noncredit Course** - Courses numbered 500-799 which grant no college credit or student grades. A noncredit course should not be confused with the credit/nocredit grading option defined above.

**Online Courses** - Courses offered by Solano Community College that can be completed entirely online through the Internet. Instructor and student interact in a variety of ways (email, chat rooms, discussion boards). Course content and assignments are equivalent to comparable courses taught on campus. Online courses follow the same semester schedule as on campus classes; they are not self-paced. However, students have more flexibility over their study time in an online course. Some online courses may require occasional on-campus meetings for orientations or exams.

**Open Entry** - Courses which students may enroll in throughout the semester.

**Open Exit** - Courses which may be completed upon fulfillment of course requirements at any time during the semester.

**Pass/No Pass** - A grading system by which units of credit may be earned but no letter grade is assigned. Such units are not used in computing the grade point average. The credit/no-credit grading option should not be confused with noncredit courses defined above.

**Passed/Earned Hours (PH/EH)** - Total number of units in the courses for which a student has received a grade of A, B, C, D, F, or CREDIT.

**Prerequisite** - A course or equivalent preparation that must be completed before enrolling in another course. A student's enrollment in a course with a prerequisite is blocked until the requirements of the prerequisite are satisfied.

**Probation** - A trial period in which a student must improve scholastic achievement.

**Program of Study** - A planned series of courses and activities.

**Registration** - The process of selecting and enrolling in classes and paying the required fees.

**Schedule of Classes** - A list of courses offered for a particular semester, which can be found online at ***www.solano.edu,*** and which list by subject, course number, CRN, course title, units, instructor, time, and location.

**Semester** - A subdivision of the academic year into two sessions, usually fall and spring, each lasting approximately seventeen weeks.

**Smart Classroom** - A classroom in which the instructional methods used may include a variety of multimedia technologies such as computers, CD ROM, VCR, Laser Disk, Internet and presentation software programs.

**Student Load** - The number of class units which a student takes in any given semester. A full student load is twelve or more units. A normal full-time class load is fifteen units.

**SCCID** - All Solano College students will be issued a unique 9-digit SCCID upon submission of online application for admission. This randomly assigned number has no connection to your social security number.

**Substandard Grades** - A grade of D, F, or NC. (Title V 55761).

**TAG** - Transfer Admission Guarantee is a formal, written agreement that offers students guaranteed admission to a University.

**TANF** - Transitional Assistance to Needy Families is available at Solano Community College. Students in this program will be referred by Solano or Yolo County Social Welfare Departments. This welfare-to-work program will enable AFDC welfare recipients to attain job skills.

**TBA** - To be announced (TBA) is noted in the Schedule of Classes when the room or time of a course was not known at time of schedule printing. TBA is also used to designate the times for an online course where class meetings are not required.

**Tech Prep** - A seamless vocational curriculum partnership between participating high schools and Solano Community College which leads to technical proficiency/certification and job placement.

**Transcript** - A list of all courses taken at a college or university showing the final grade received for each course. Official transcripts bear a seal of the college and signature of a designated college official and are sent directly from one institution to another.

# Glossary

**Transfer** - Changing from one college to another after meeting the requirements for admission to the second institution.

**Transfer Course** - A course acceptable for credit at another college.

**Travel Study** - A course which combines traditional class study with the non-traditional learning experience of travel to an off-campus site relevant to the course subject matter.

**Units** - The measure of college credit given a course, usually on the basis of one unit for each lecture hour per week or for every two to three laboratory hours per week.

**UC** - The University of California System. The UC web site is ***www.ucop.edu.***

**Upper Division** - Courses or classes intended for the junior and senior years of college.

**Variable Units** - The range of units which may be earned in a given course. Most courses do not have variable units.

**Waitlist** - Allows students to show their interest in a course where the seat capacity has been reached.

**Withdrawal** - Dropping one or more classes.

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