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2015-2016 CATALOG
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SOLANO
COMMUNITY COLLEGE

2015-2016 General Catalog

This catalog covers Summer semester (June-July 2015);
Fall semester (August-September 2015); and Spring semester (January-May 2016).
Catalog Revised 7/15/2015

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) 863-7872

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) 863-7878

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 the Associate Vice President of Human Resources: (707) 864-7122.

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.

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Accreditation, Governance, and Membership

Accreditation and Approvals

- **Solano Community College is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, 10 Commercial Boulevard, Suite 204, Novato, CA 94949, (415) 506-0234, an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education.**

- The Nursing program is accredited by the California State Board of Registered Nursing.

- The Cosmetology program is approved by the California State Board of Barbering and Cosmetology.

- The Aeronautics program is certified by the Federal Aviation Administration (FAA) in accordance with CFR14, FAR Part 147.

- Solano Community College is approved for veterans training by the U.S. Department of State and for Foreign Student Education by the U.S. Immigration Service (USCIS).

Governance and Funding

Solano Community College is a public community college funded by a combination of state and local tax dollars. Through its Foundation, the college also actively solicits private donations from individuals and corporations to support capital projects and programs. The 7-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 4-year terms. Solano College is under the direction of its Superintendent/President, who, with faculty and staff, administers the college and oversees the implementation of Board policies.

Membership

- 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)
- North Bay Cooperative Library System (NBCLS)
- Research and Planning Group of California Community Colleges
- Servicemembers Opportunity Colleges (SOC)
- Solano County Economic Development Corporation (Solano EDC)
- Solano, Napa and Partners (SNAP) Library Consortium
- Western Association of Veteran Education Specialists (WAVES)

General Information

Welcome!

Dear Students and Supporters
of Solano Community College:

Since 1945, Solano Community College has been
providing opportunities for the residents of Solano
County to enhance their lives. With support from
our citizens, we are enhancing our capacity to serve
you better and more conveniently.

This catalog will provide you with the information
to guide you in pursuing your educational goals.
Our faculty works diligently to create courses and
programs that will meet your needs for transfer,
career preparation, or personal enrichment. They
want you to succeed at every step. The members of
our professional staff are ready and eager to serve
you. They are well equipped to help guide you
through your studies.

Whether your goal is an Associate in Arts Degree,
an Associate in Science Degree, a Certificate of
Achievement or a Job Direct Certificate, we know
we can help you succeed. With over 80 Associate
Degrees and over 50 Certificates of Achievement
to choose from, you have a great opportunity to
launch your future in Solano County.

Your success is our business. We invite you to join
us at Solano Community College for a life-changing
experience.

Welcome!

Stan Arterberry,
Interim Superintendent/President.

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 College is part of California's public commu-
nity college system of 112 campuses in 72 districts
across the state. The College's service area encom-
passes 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 opportu-
nities offered by Solano Community College.

Solano's classes are held during two semesters each
year (spring and fall) and two summer sessions. The
Weekend College program offers expanded learning
opportunities. Flexible scheduling, designed for
students' convenience, includes day, evening, and
Saturday classes, held both on and off campus, via
television, online, home study and travel study.
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 12,000
almost evenly divided between day and evening, the
Solano College campus is alive at all hours offering
academic study and occupational training to all area
residents.

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Mission, Vision, Values, and Goals

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 helping our students achieve their educational, professional, and personal goals centered in transfer-level education, workforce development and training, and basic-skills education. The College accomplishes this three-fold mission through its dedicated teaching, innovative programs, broad curricula, and services that are responsive to the complex needs of all students.

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

- **Integrity**— firm adherence to a code of ethical values in thought and behavior

- **Critical Thinking** — the use of intellectually disciplined, logically sound processes involving datadriven 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 4100

POLICY

The Code of Ethics serves to articulate values and characteristics that everyone is expected to embody and promote. Each employee of Solano Community College shall:

- Abide by all legal obligations to include state and federal law and College policies.

- Treat each other with uncompromising integrity, dignity, respect, and fairness.

- Respect privacy and confidentiality.

- Act with transparency and be mindful of conflicts of interest.

- Maintain a safe and secure work environment.

- Recognize the College's responsibility to all citizens of the District to provide an educational program of the highest quality.

- Use technology resources and social networks professionally and responsibly.

- Conduct ourselves in a spirit of collegiality and civility.

Strategic Goals
The Goals and Objectives Have a Foundation in
Equity and Integrity in Action

Foster Excellence in Learning

Obj. 1.1 — Create an environment that is conducive to student learning.

Obj. 1.2 — Create an environment that supports quality teaching.

Obj. 1.3 — Optimize student performance on Institutional Learning Outcomes

Maximize Student Access & Success

Obj. 2.1 — Identify and provide appropriate support for underprepared students.

Obj. 2.2 — Update and strengthen career/technical curricula.

Obj. 2.3 — Identify and provide appropriate support for transfer students.

Obj. 2.4 — Improve student access to college facilities and services for students.

Obj. 2.5 — Develop and implement an effective Enrollment Management Plan

Strengthen Community Connections

Obj. 3.1 — Expand ties to the community.

Obj. 3.2 — Respond to community needs.

Optimize Resources

Obj. 4.1 — Develop and manage resources to support institutional effectiveness.

Obj. 4.2 — Maximize organizational efficiency and effectiveness.
Obj. 4.3 — Maintain up-to-date technology to support the curriculum
and business fun

Institutional Learning Outcomes

I. Communication

Students will communicate effectively, which means the ability to:

A. Read – Students will be able to comprehend and interpret various types of written information in (1) expository prose and imaginative literature (including essays, short fiction, and novels), (2) documentation such as manuals, reports, and graphs

B. Write – Students demonstrate the ability to:

- Communicate thoughts, ideas, information, and messages in writing
- Compose and create documents such as manuals and graphs as well as formal academic essays, observing rules of grammar, punctuation and spelling, and using the language, style, and format appropriate to academic and professional settings
- Check, edit, and revise written work for correct information, appropriate emphasis, form, style, and grammar

C. Listen – Students will be able to receive, attend to, interpret, and respond appropriately to (1) verbal and/or (2) nonverbal messages

D. Speak and Converse – Students have the ability to:

- Organize ideas and communicate verbal or non-verbal messages appropriate to the audience and the situation
- Participate in conversations, discussions, and group activities
- Speak clearly and ask appropriate questions

II. Critical Thinking and Information Competency

Thinking critically is characterized by the ability to perform:

A. Analysis – demonstrated by the ability to:

- Apply appropriate rules and principles to new situations
- Discover rules and apply them in the problem solving process
- Draw logical conclusions based on close observation and analysis of information
- Differentiate among facts, influences, opinions, assumptions, and conclusions

B. Computation – demonstrated by the ability to:

- Use basic numerical concepts
- Use tables, graphs, charts, and diagrams to explain concepts
- Use basic geometrical shapes

C. Research – demonstrated by the ability to:

- State a research question, problem, or issue
- Select discipline-appropriate information tools to locate and retrieve relevant information
- Use discipline-appropriate information tools to locate and retrieve relevant information efficiently
- Analyze and evaluate information for appropriateness, relevance, and accuracy
- Synthesize, evaluate, and communicate information using a variety of information technologies

- Recognize the ethical and legal issues surrounding information and information technologies
- Demonstrate understanding of academic integrity and honesty

D. Problem Solving –demonstrated by the ability to:

- Recognize whether a problem exists
- Identify components of the problem or issue
- Create a plan of action to respond to and/or resolve the issue appropriately
- Monitor, evaluate, and revise as necessary

III. Global Awareness

Students will demonstrate a measurable understanding and appreciation of the world including its

A. Scientific Complexities – Students demonstrate an understanding of:

- The scientific method and its application in experiments
- How experiments work
- The major differences between social, natural, and physical sciences

B. Social Diversity and Civics – Students demonstrate ability to:

- Communicate with people from a variety of backgrounds
- Understand different cultural beliefs and behaviors
- Recognize important social and political issues in their own community

C. Artistic Variety – Students have been exposed to:

- The visual and performing arts of one or more cultures
- Analytical techniques for understanding the meaning in the arts and/or
- Hands-on experience with creative endeavors

IV. Personal Responsibility and Professional Development

A. Self-Management and Self-Awareness – The student is able to:

- Accurately assess his/her own knowledge, skills, and abilities
- Motivate self and set realistic short, and long-term goals
- Accept that assessment is important to success
- Respond appropriately to challenging situations

B. Social and Physical Wellness – Students make an appropriate effort to:

- Manage personal health and well being
- Demonstrate appropriate social skills in group settings

C. Workplace Skills – Students understand how to:

- Be dependable, reliable, and accountable
- Meet deadlines and complete tasks

General Campus Information

ACADEMIC FREEDOM - FACULTY

The Solano Community College District affirms its belief in the academic freedom of its full 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 the Academic Freedom and Tenure, 1969 (Handbook of American Association of University Professors):

> "...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 he or she does not speak, necessarily, for the College.

ATM SERVICE

An ATM is located in the lobby of Building 1400 and is available for students, staff, and visitors to the campus. All major ATM cards are accepted. Bank fees may apply.

BOOKSTORE

The Bookstore is located in the Student Center, Building 1400. It is responsible for providing textbooks 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 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.

Used, New, Rental, Digital: Students may also choose a rental, used book, or digital option on selected textbooks, which may result in cost savings.

Book Buyback: Students may sell textbooks if they are being used in the upcoming term. You can sell your books back to the bookstore at any time; the best time is at the end of the term during finals week. For further details about book buyback, refunds, and other policies, please contact the bookstore or see our web site.

Hours of operation vary in conjunction with the College calendar. For more information, hours, selected products, services, textbook information, online ordering, and policies see the Bookstore's web site (*www.solano.edu/bookstore*), or call (707) 864-7111.

CAFETERIA

The cafeteria at Solano Community College is located in the Student Center, Building 1400. 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. The cafeteria hours of operation are Monday through Thursday, 7:30 a.m. to 8:00 p.m., and Fridays from 7:30 a.m. to 2:00 p.m.

CAREER & EMPLOYMENT SERVICES CENTER

The Career and Employment Services Center offers one-stop services to include career exploration and skills assessment, labor market information and free employment assistance to all Solano College students and alumni in obtaining full- or part-time employment on and off campus. Students can research information and resources 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 job search as well as up-to-date listings of current employment opportunities. For more information or appointments, call the Career and Employment Services Center at (707) 864-7124.

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

General Campus Information

Employment Practices of 1959, Americans With Disabilities Act of 1990, and the Discrimination and Employment Act of 1972.

COMMUNITY EDUCATION, LIFELONG LEARNING AND FACILITY RENTALS

Our Community Education Office offers a variety of not-for-credit, fee-based classes and workshops addressing a broad range of subjects and areas of interest. *Vistas*, our community education schedule, is available online at *www.solano.edu/vistas* and *www.eventbrite.com*. Look for *Vistas* in August and January, for classes, fees, and class dates and times.

Call our office at (707) 864-7115, for more information on classes and fees, or to register. For online information and registration, visit our Web site at: *www.solano.edu/vistas*, or register at *www.eventbrite.com.*

Community Education also arranges for use of campus facilities. For campus facility rentals and fees, call (707) 864-7000, ext. 4400.

SMALL BUSINESS DEVELOPMENT CENTER (SBDC)

The Small Business Development Center (SBDC) connects small business owners with Business Advisors who work hands-on with clients to address challenges, seize opportunities and grow their bottom line through expert no-cost counseling and top-notch low cost seminars. The SBDC works side by side with entrepreneurs to help them realize their business dreams.

Business Advisors can help with:
- Business planning
- Marketing strategies and planning
- Sales
- Access to capital, including bank finance, SBA loans, and asset financing
- Venture funding
- Government contracting
- Strategic technology acquisition and practical, hands-on application
- Financial Projections & Budgeting
- Operating Challenges
- And more…

To request for services register at *www.solanosbdc.org.* Register for workshops at www.solanosbdc.org under events, or at *www.eventbrite.com.*

Business Starter Packet can be accessed on our website at *http://solanosbdc.org/node/2404.*

WORKFORCE DEVELOPMENT AND CONTINUING EDUCATION

Solano Community College's Workforce Development and Continuing Education (WDCE) offers a wide range of educational services to local businesses and organizations. We offer semester–long, credit courses that lead to a certificate or degree and customized, short, on-site, non-credit training classes (both live and online). In addition, WDCE has the capacity to provide academic testing and advertisement along with employee assessment and interest surveys to determine the needs of individual employees. We conduct management and employee focus groups to determine the productivity improvement training and / or engagement programs needed.

In addition to its training rooms at the Corporate Training Center, WDCE also arranges training to be held at various locations, including other campus facilities, as well as at a client's location.

Vistas, the WDCE schedule, is available on line at *www.solano.edu/vistas*. Classes begin Spring and Fall semesters with select offerings during the summer.

The WDCE office is located at the Solano Community College, 4000 Suisun Valley Road, Rooms 168 and 169. Registration is available online at *www.solano.edu/vistas* or at at *www.eventbrite.com*. For more information, call 707-864-7115. Solano Community College's Workforce Development and Continuing Education is prepared to meet with your management team to assist in presenting this corporate training concept.

CONTACTING STUDENTS-EMERGENCY ONLY

In cases of extreme emergency such as sudden illness or accident, students may be contacted (by the College staff) on campus by calling Admissions and Records at (707) 864-7171. Non-emergency messages are not delivered to students.

COSMETOLOGY SERVICES

The Cosmetology Department offers haircare, skin care, and manicuring services. These services are available during the Fall, Summer, and Spring semesters in Building 1600, Room 1610. All work is done by students, with instructor supervision. Clients' complimentary parking passes for Cosmetology parking 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 Cosmetology Department. Appointments are appreciated but not required. Cosmetology Club Retail Center offers Professional Products for your hair care and skin care needs. The Retail Center is open Monday, Tuesday, Thursday, and Friday from 9am to 1pm in Building 1600, Room 1610.

Cosmetology Clinic Lab Hours
    Day (707) 864-7180 9:00 a.m. – 12:30 p.m.
    Monday, Tuesday, Thursday, Friday
    Night (707) 863-7849 5:00 p.m. – 8:00 p.m.
    Monday, Tuesday, Thursday, Friday
    Clients must be 16 years or older

CRIME AWARENESS AND CAMPUS SECURITY ACT OF 1990

The Solano Community College District is in compliance with the Federal Crime Awareness and Campus Security Act of 1990. Information required by this act may be found in the *Student Handbook: Rights, Responsibilities & Procedures*. Statistical crime information required by this act is published annually and inserted in the Student Handbook. "Crime Statistics and Campus Safety Information" is available on the Police Department's web site. An updated statistics list is available online at ***http://ope.ed.gov/security.*** Hard copy is available at the Police Dept., 1800B.

A 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 procedures for Student Conduct and Discipline (§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 as 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 (§1180), 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

SCC EDUCATIONAL FOUNDATION

The Solano 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.

General Campus Information

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 College. Persons wishing to donate to the Foundation should make checks payable to the SCC Educational Foundation and mail them to SCC Educational Foundation, 4000 Suisun Valley Road, Fairfield, CA 94534-3197.

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.

PARKING

Parking Permits: Semester parking permits may be purchased online through MySolano or at *www.solano.edu*. Parking permits are required each semester and during summer sessions. Permits must be completely and clearly displayed (semester and permit # or date and time for daily displayed permits). Parking permits are not transferable from one person to another. It is against the law to alter, forge, reproduce, sell, or loan your 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. All permits (semester and daily) must be clearly displayed with permit number or date (for daily permits) visible to be valid.

Motorcycles: Motorcycles may park in designated motorcycle areas without cost or permits. Motorcycles parked in other areas require permits at the vehicle price.

Daily Parking Permits: Daily parking permits are available at a cost of $1.00 per day from dispensers located near the entrance of each parking lot. Dispensers accept $1 bills and coins. Daily permits must be purchased each day while parked on campus. If the permit dispensers malfunction, notify the Police in at 707-864-7131 or stop by Bldg 1800B. If a dispenser is out of service, you must purchase a permit in an adjacent lot. Daily parking permits are interchangeable between the main campus, the Vacaville Center, and the Vallejo Center.

Disabled Parking: You must have a disabled placard or plates AND a current parking permit to park in disabled parking stalls. Your placard / plates and permit must be clearly displayed.

Ride share Permits: Rideshare parking requires a special permit issued by the Student Development Office in Room 1425 (across from the Bookstore, Fairfield campus). Vehicles displaying valid rideshare permits may only park in designated stalls reserved for rideshare participants. If you do not have a rideshare permit, you may not park in the rideshare stalls. Rideshare permits are not valid for general parking stalls or at the Vacaville Center or Vallejo Center. Rideshare vehicles must contain three (3) or more students for the permit to be valid.

Visitor Parking: Limited 30-minute visitor parking stalls are available at the Fairfield campus in Lot 1. They are marked "Visitors Parking" and are located along the curb line. For visits longer than 30 minutes, purchase a daily permit from the dispensers located in lots 1-6 and move your vehicle to another stall in the parking lot. Do not park in rideshare or faculty / staff lots. The visitors parking area is not available for faculty, staff, or students. Visitor parking is also available at the Vacaville and Vallejo Centers in clearly marked parking stalls.

Fairfield, Vacaville, and Vallejo: Parking permits are required while parked on Solano College properties. Permits are required each semester and summer sessions.

Student parking is provided in clearly designated parking lots. Reserved parking areas are reserved for visitors, for faculty and staff who hold permanent parking permits, and for disabled persons. The California Vehicle Code and District parking regulations are enforced by the Solano Community College Police Department.

PARKING ENFORCEMENT

Permit parking is not enforced in student / general parking lots during the first week of the fall and spring semesters, and summer session offered (e.g. if a 10-week session is offered, the first week of that session will have a grace period. Any session beginning after the 10-week session will not have a grace period). Reserved areas, such as Ride Share, Visitors, Faculty and Staff, Disabled parking, etc. do not have a grace period for permit parking. Thereafter, permit parking is enforced Monday-Friday, 7:00 am–10:00 pm. You must have a valid permit clearly displayed while parked on Solano Community College District property, including the Vacaville Center and the Vallejo Center. All other regulations and vehicle code violations are enforced 24 hours a day, 7 days a week.

General Campus Information

Parking for students is provided in clearly designated areas. Certain parking areas are reserved for visitors, for faculty and staff who hold permanent parking permits, handicapped persons, and rideshare.

General Information: Parking permits are good for all Solano College campuses. Permits must be located as indicated on the permit directions. Parking fees are subject to change. Parking brochures are available at the Police Department, Student Center (Bldg. 1400), Switchboard (Bldg. 1600), and at the Information Booth (Bldg. 400). An appeal process is available to contest parking citations. For more information regarding parking, access our Web site at *www.solano.edu/police* or email us at *parkingservices@solano.edu* or call (707) 864-7131.

PUBLICATIONS

Solano Community College publishes a general Catalog yearly, a Schedule of Classes prior to each semester (fall, spring, summer); a Community Services Bulletin, *Vistas*, twice a year (fall, spring); and a variety of brochures on specific areas of study and student services. Students publish a bi-monthly bulletin, the ASSC Newsletter, and a campus newspaper, *The Tempest.* The College also maintains a Web site with current information on classes, policies, programs and services: *www.solano.edu.*

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: Working together, safety at Solano Community College is everybody's business. 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.

Solano Community College maintains a police department. The department is located in Room 1800B. A person may report any criminal action or other emergency by calling extension 4355 or 911. The non-emergency number is extension 4369 or (707) 864-7131. Off campus dial 911 to report any emergency.

College Property: Solano Community College property may **not** be removed from the campus without the expressed, written permission from the division 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.

Police Department: It is the policy of the Solano Community College Board of Trustees to protect the members of the total College community and to protect the property of the District (Board Policy §3410 & §3800). Under the general direction of the Chief of Police, the Police 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.

The college's police officers, 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. They have the same authority throughout the State of California as a municipal police officer or a county deputy sheriff. The Police Department receives reports for all incidents occurring on campus and is responsible for investigating all campus crime. Drivers should be aware that police officers are authorized to enforce all provisions of the California Vehicle Code relative to both moving and non-moving violations on campus.

The Campus Crime Statistics Report is published annually and is available in the Solano Community College Police Department.

Sexual Assaults: Sexual assaults including rape, acquaintance rape, and other sex offenses, should be reported to the Police Department immediately. Police can be contacted in Room 1800B or emergency phone extension 4355. The non-emergency number for campus police is extension 4369 or (707) 864-7131. If the crime occurred off campus, call the 911 police emergency number.

If you are a victim of a sexual assault, do not touch or change anything at the scene. Do not wash, take a shower, or change your clothing; you 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 police officer trained in sexual assault investigation. During the fall

and spring semesters, a nurse and an abuse counselor are located in Bldg. 1400. The rape crisis hotline for Solano County is (707) 422-RAPE or (707) 644-RAPE. 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.

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 Police 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**. Call the Solano College Police, via the college emergency extension 4355, whenever you see suspicious behavior or activity.

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 Police will notify persons using these facilities.

STUDENT RIGHTS
Academic Freedom - Students: 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 Development (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 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 Admissions and Records. The Director of Admissions and Records 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 you: 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 you do not wish such information to be released about your participation or status, you should notify Admissions and Records in writing.

General Campus Information

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 Admissions and Records. 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.

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 the Associate Vice President of 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* guarantees the right of students to be free of sex discrimination. This applies to the following: access to courses, counseling and guidance services, treatment of students, access to personal records, athletics, financial assistance, and work experience. Student inquiries concerning "Title IX" complaints should be directed to the Associate Vice President of 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 the Associate Vice President of Human Resources.

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 intimi-

dating, 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.
   a. Verbal: Offensive and/or inappropriate comments, epithets, whistling, jokes and innuendoes 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.
   b. 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.
   c. Written: Sending or delivering sexually suggestive letters, notes, invitations, electronic media transmissions, or other reading materials.
   d. 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 the Associate Vice President of Human Resources. Immediately following notification to the supervisor or school official, the party shall notify the Associate Vice President of 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 the Associate Vice President of 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.

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 Services

ACADEMIC SUCCESS CENTER (ASC)

Academic Success Center (ASC) serves as a center to encourage and facilitate academic success through support services for students. These services include help navigating the bureaucracy (i.e. the website, application for admission, enrollment in classes); financial aid; transfer. In addition, the ASC provides information about other important campus support resources; a quiet study space; use of laptop computers and printer; academic success workshops (i.e. study skills, exam preparation, time management, research and writing papers). It also serves to provide high quality faculty development opportunities and instructional resources. The Academic Success Center is located in Room 101 on the Main Campus in Fairfield, CA

ADMISSIONS AND RECORDS (A&R)

The Admissions and Records office is located in the Student Services building.

Registration dates, times, and locations for each term and the summer session are printed in the Schedule of Classes and are available on our web site at *www.solano.edu*. For more information or for questions, problems or appeals, email *admissions@solano.edu* or call (707) 864-7171.

ASSOCIATED STUDENTS OF SOLANO COMMUNITY COLLEGE (A.S.S.C.)

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 12:30 on Tuesdays during the Spring and Fall semester in room 1421 in the Student Center. 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.

CALWORKS

Solano Community College (SCC) is dedicated to long-term self-sufficiency and success. Our program provides comprehensive services to our CalWORKs students while assisting them in achieving success. Students may earn a Certificate of Achievement, Associate Degree or transfer to a 4-year college. We offer support, advocacy, counseling, and work-study. Our office is part of the college Student Services team and we are a partner to the Solano County CalWORKs Program.

To begin your path to success, please visit our office on the Fairfield Campus:
> Student Services Building 400, Room 407
> Phone: (707) 864-7000, ext. 4645
> Fax: (707) 646-2058

CHILDREN'S PROGRAMS/ EARLY LEARNING CENTER

The Solano Community College Children's Programs/ Early Learning Center provide child care and development services for children of student parents and from the community. The program is also the early childhood education laboratory school for students studying child development and family studies.

We are 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. We also offer an afternoon preschool program from 1:00 – 4:00 p.m. each week day.

To place your child on the subsidized or non-subsidized child care wait list, you may come to 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.

Student 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.

Visit the Children's Programs between 8:00 a.m. – 4:00 p.m. or call (707) 863-7182 for more information.

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

CARE PROGRAM
(Cooperative Agency Resources for Education)
The CARE Program is a supplemental program of EOPS students designed to provide educational support services and activities for the educationally and academically underprepared, welfare dependent, single head-of-household students. The expected outcome of students who participate in the CARE Program is to help eligible CARE students break the "cycle of welfare". To be eligible a student must be:
- Enrolled full-time at Solano Community College
- An EOPS student currently receiving the Pell Grant
- At least 18 years of age
- A single parent head-of-household
- A current recipient of Tribal TANF/TANF/Cal-WORKS cash aid, or at least one dependent child of must be currently receiving cash aid
- The parent of at least one child under 14

CARE Program provides support services and a CARE Grant reimbursement for the following:
- Academic counseling
- Personal development activities and workshops
- Child care expenses
- Textbooks and supplies
- Transportation costs

For more information, contact the EOPS Office in room 426, or call (707) 864-7000 ext. 4444, or go online at *www.solano.edu* and click on Financial Aid.

COUNSELING
The Counseling Center provides career, educational and personal 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 prior to registration. New students should plan to meet with a counselor well before the start of their term.

Counseling services are available in person at the main campus and college centers, as well as online through e-counseling at *www.solano.edu/ counseling/ecounseling.php*.

Students on academic or progress probation, along with students petitioning for readmission after being academically disqualified must meet with a counselor prior to enrolling in classes.

How to make a counseling appointment
1. In person
2. Online at *http://www.solano.edu/counseling*
3. By phone:
   Main Campus (707) 864-7101
   Vallejo Center (707) 642-8188
   Vacaville Center (707) 863-7872
   Travis Air Force Base (707) 863-7878

ENGLISH LABS
DROP-IN WRITING LAB
The English department offers a drop-in writing lab on the Fairfield Campus (room 101), the Vallejo Center (room 124), and the Vacaville Center (room 137). The lab is 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.

ENGLISH AS A SECOND LANGUAGE (ESL) LAB

The English as a Second Language Department operates an ESL Lab in building 100 (Library) 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 .5 to 1 unit per semester up to a maximum of 1.5 units.

THE READING IMPROVEMENT LAB (ENGL 320)

The Reading Improvement Lab (ENGL 320) is an open-entry, open-exit class offering individualized instruction for students who want to improve their reading skills on an independent basis. The Lab is designed to serve all Solano College students, especially those not enrolled in any other English classes. This class focuses on reading foundation skills with individualized instruction providing an opportunity to address specific reading needs.

THE WRITING SKILLS LAB (ENGL 310)

The Writing Skills Lab (ENGL 310) is an open-entry, open-exit class offering individualized instruction in writing skills. The Lab is especially designed to serve independent students, especially those not enrolled in any other English classes. Assignments are based on individual needs and will vary for each student, but focus on process and fundamentals such as development, grammar, and mechanics.

EOPS PROGRAM
(Extended Opportunity Programs & Services)

Extended Opportunity Programs and Services (EOPS) is a State funded categorical program that provides support services to eligible EOPS students. The Solano Community College EOPS Program provides support services to students who are both financially and educationally disadvantaged to obtain their educational goal. As a college success program, EOPS is designed to increase the success rate of students who are affected by socioeconomic or language barriers, increase attendance by historically underrepresented students, and enhance their success in college. Additional eligibility criteria for the EOPS Program include:

1. California residency.
2. Enrollment in 12.0 semester units at Solano College.
3. Qualification and receipt of the BOG Fee Waiver A or B.
4. Status of educationally disadvantaged according to State defined Title 5 Guidelines.

EOPS support services include:
- Program orientation
- Academic, career, and personal counseling
- Testing and career assessment
- Bus tours to four-year colleges & universities
- EOPS Lab (study room for EOPS students)
- EOPS Library
- EOPS Grant (based on funding)
- EOPS Book Lending Library
- EOPS Transportation Grant (based on funding)
- Student Education Plan (SEP) development
- Basic Skills Math tutoring
- Fee waiver assistance for university applications
- Newsletter or bulletin
- Priority registration and registration assistance
- Progress reports
- Workshops
- Book voucher program for fall and spring semesters

For more information, contact the EOPS Office, in room 426; or call (707) 864-7000 ext. 4444, or go online at ***http://www.solano.edu/eops*** .

FINANCIAL AID PROGRAMS AND ELIGIBILITY

Basic types of financial aid:
- **Grants** – Federal and state gift aid that does not have to be repaid, unless the student withdraws before completing 60% of semester.
- **Work-Study** - Money earned monthly through part-time work.
- **Loans** - Money borrowed which must be repaid with accrued interest.
- **Scholarships** – Institutional, foundation, non-profit, and private gift aid that does not have to be repaid.

Student Services

HOW TO APPLY FOR FINANCIAL AID

Apply online at *www.fafsa.gov* with the FAFSA (Free Application for Federal Student Aid) annually beginning January 1 using the Solano Community College Title IV School Code 001292. Students are encouraged to submit the FAFSA by the annual March 2 priority and state deadline; however, the FAFSA may be submitted late through the end of the spring term of the following academic year.

NOTE: Application processing may take up to 10 weeks after completing and submitting additional required forms and documentation (see "Student Requirements" on the MySolano Financial Aid Tab.)

Students are encouraged to log into their MySolano web account to read frequent email blasts and check their updated Financial Aid status. For more information, go online to *www.solano.edu*, click "Financial Aid."

The BOG Fee Waiver (BOG FW) is a state financial assistance program offered through the California Community College system. Enrollment fee(s) for qualifying students who are California residents will be waived who meet BOG FW eligibility requirements in one (1) of the three (3) ways:

BOG Fee Waiver A:
- Be a California resident.
- Apply with the FAFSA (Free Application for Federal Student Aid) at *www.fafsa.gov* or the BOG Fee Waiver application. Refer to *www.solano.edu,* click "Financial Aid" for the paper application or use the CCCApply online BOG fee waiver application.
- Be a recipient of CalWORKS/TANF (Temporary Assistance to Needy Families), or SSI/SSP (Supplemental Security Income/State Supplemental Program), or General Assistance/General Relief at the time of enrollment.
- Provide documentation of receiving CalWORKS/TANF, or SSI/SSP, or Untaxed Income Verification form of cash benefits currently received at time of enrollment.
- Documentation may include a copy of correspondence from the local office of Public Assistance which identifies the student (or family members if applicable) and indicates that a monthly payment is being awarded for the current or prior month. This may include a copy of an Adjustment-to-Benefits letter, Notice of Action or Aid

Verification Summary that show current receipt of CalWORKS/TANF, SSI/SSP, or General Assistance/General Relief and the amount of the grant.

BOG Fee Waiver B:
- Be a California resident.
- Apply with the FAFSA (Free Application for Federal Student Aid) at *www.fafsa.gov* or the BOG Fee Waiver application. Refer to *www.solano.edu*, click "Financial Aid" for the paper application or use the CCCApply online BOG fee waiver application.
- Meet the following 2015-2016 Income Standards:

Family Size	2014 Income
1	$17,505
2	$23,595
3	$29,685
4	$35,775
5	$41,865
6	$47,955
7	$54,045
8	$60,135
Each Additional Family Member	$ 6,090

- These standards are based upon the federal poverty guidelines, as published each year by the US Department of Health and Human Services. Under Title 5 of the California Code of Regulations, the student or the student's family must have a total income in the prior year (in this case 2014) that is equal to or less than 150% of the U.S. Department of Health and Human Services Poverty Guidelines based on family size.
- The U.S. Department of Health and Human Services published the 2014 Poverty Guidelines in January 2014 (additional information will be posted after the guidelines are published).
- These income standards are for the 2015-2016 academic year and are to be used to determine BOGFW-B eligibility EFFECTIVE July 1, 2015.

BOG Fee Waiver C:
- Be a California resident.
- Apply with the 2015-2016 FAFSA (Free Application for Federal Student Aid) online at *www.fafsa.gov*.
- Demonstrate minimum need threshold of $1,104.00 based upon FAFSA data.

Student Services

• The "minimum need" threshold will be established annually by the California Community College Chancellor's Office. The minimum need threshold shall be in effect for 2015-2016..

CCCApply online BOG Fee Waiver application is available for **BOG Fee Waiver A & B**! Refer to *www.solano.edu,* click "Financial Aid" for the paper application or for the CCCApply online BOG fee waiver application.

AB-540 Students
The California Dream Act of 2011 (AB130/131) allows eligible undocumented and documented students to apply for and receive institutional scholarships and state administered financial aid (AB-130) and community college fee waivers (AB 131), effective January 2013 (Spring 2013).

Financial Aid assistance is available through the federal and state government, as well as scholarships offered by the institution, private and non-profit foundations. Financial aid may help to offset the cost of higher education such as tuition, fees, books, supplies, housing, transportation and personal expenses. Be aware that financial aid does not fully support a student with all expenses. Financial Aid is one of many tools to help students achieve their educational and career goals. Here is a listing of financial aid programs available through Solano Community College:

Title IV Federal Student Aid Programs—School Code 001292
Grants (free money for college)
• Pell Grant
• Supplemental Educational Opportunity Grant (SEOG)
Work-Study (cash earned while you learn)
Loans (borrowing requires repayment)
• Direct Loan Program
    Subsidized
    Unsubsidized
California State Aid
• Cal Grant B, C, Transfer
• Chafee Grant for Foster Youth
California Community Colleges
• BOG Fee Waiver (CA residents)
• Extended Opportunity Programs & Services (EOPS)
• Foster Youth Success Initiative (FYSI)

Scholarships
• Private foundations and non-profit organizations
• Institutional (colleges/universities)

Eligibility for financial aid is based on financial need and on several other factors. To be eligible to receive Federal Title IV financial aid assistance, students must:
• Demonstrate financial need (except for certain loans).
• Have a high school diploma or a General Education Development (GED) certificate, meet other standards your state establishes that the Department approves; complete a high school education in a home school setting that is treated as such under state law; or have completed 6 semester units in a post-secondary degree or certificate program prior to July 1, 2012.
• Be a U.S. citizen or eligible noncitizen.
• Have a valid Social Security Number or Alien Registration Number (ARN).
• Register with the Selective Service (males age 18-25). Students may use the online FAFSA at *www.fafsa.gov* to register, or may register at *www.sss.gov*, or call 1-847-688-6888. (TTY users can call 1-847-688-2567.)
• Maintain Satisfactory Academic Progress (SAP).
• Not in default on a federal student loan and do not owe money on a federal student grant.

Satisfactory Academic Progress (SAP)
Federal and State financial aid regulations require Solano Community College (SCC) to establish, publish, and apply qualitative, quantitative and incremental standards by which SCC can determine whether a student requesting and/or receiving financial aid is maintaining Satisfactory Academic Progress (SAP) in his/her course of study. Financial Aid requires a declared major and enrollment in a Title IV eligible program (16 or more units in length). Solano Community College Financial Aid Office evaluates all three standards along with specific institutional policies to determine a student's eligibility. Satisfactory Academic Progress (SAP) will be evaluated at the end of each semester. Each SAP evaluation includes both the semester and cumulative GPA and pace of progression completion rate.

Financial Aid TV
ANSWERS ON DEMAND

Have questions about financial aid?

Check out our online video answers!

solano.financialaidtv.com/m

SOLANO
COMMUNITY COLLEGE
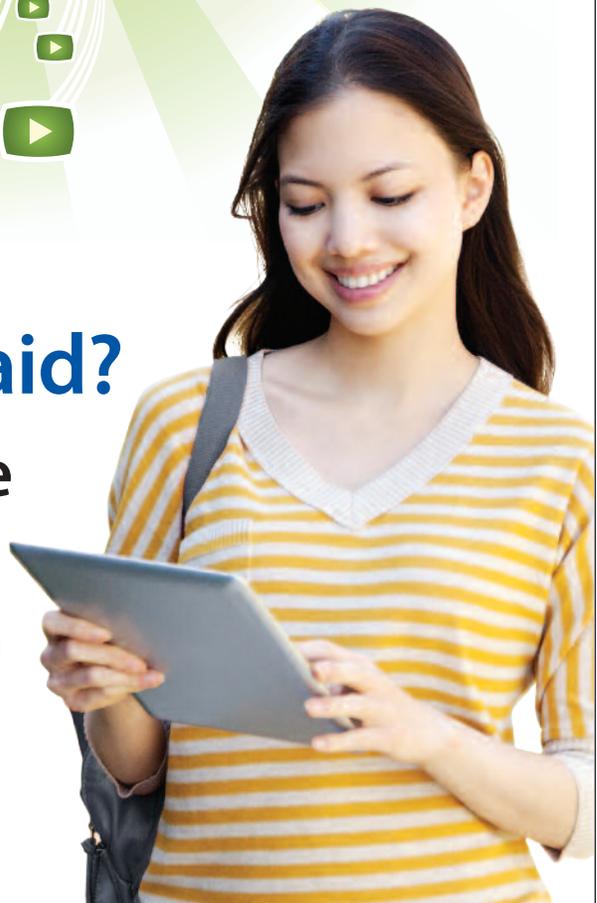
Satisfactory Academic Progress (SAP) Standards
- Grade Point Average (GPA)
- Pace of Progression
- Maximum Time Frame
- Institutional Policies

Qualitative-Grade Point Average (GPA):
- Students must have a cumulative GPA of 2.0 at each SAP evaluation.
- Grades for remedial and ESL courses count in the GPA calculation.

Quantitative-Pace of Progression:
- Students must complete at least 67% of the cumulative number of units attempted at each SAP evaluation.
- Completion rate is computed by dividing the total number of units completed by the total number of units attempted.
- Must include courses with earned "W" and units transferred into the institution, as well as academic renew/amnesty courses.

Quantitative-Maximum Time Frame
- A period of time that is no longer than 150% of published length of the program in which the student is enrolled.
- For degree and transfer programs of 60 units, maximum time frame is 90 units.
- For eligible certificate programs, maximum time frame varies (i.e. 30 unit program = 45 units maximum, 18 unit program = 27 units maximum).
- Requires that the student be enrolled in a Title IV eligible program leading to degree, certificate or transfer (basic financial aid requirement).
- Must include courses with earned "W" and units transferred into the institution, as well as academic renew/amnesty courses.

Institutional Policies:
- Remedial/ESL coursework may be excluded from the Pace and Maximum Time Frame calculations.
- All units attempted are considered in the evaluation process, this includes incompletes and withdrawals.
- Major Changes: A maximum of two major changes are allowed.

Warning
- Students not making SAP will be automatically placed on one term of "Warning" status.

- Students may receive financial aid during the warning period.
- Students not making SAP at the end of the warning period are determined to be ineligible for federal and state financial aid until they meet SAP standards.

Re-establishing Eligibility
- Students may reestablish their eligibility by meeting the Pace of Progression- 67% completion rate standard along with a minimum cumulative GPA of 2.0.
- Sitting out one semester or longer will not reestablish eligibility.

Student Appeals for Extenuating Circumstance
- Should include an explanation of why the student failed to meet SAP.
- Should explain what has changed that will allow the student to make SAP.
- Additional documentation required; see appeals form.
- Outcome is a Professional Judgment decision, case-by-case and not capricious nor discriminatory.
- Progress Report may be required prior to final determination.
- **Effective 2011-12 academic year. Students may be granted only one (1) appeal.**
- **Remedial Courses:** Remedial courses are eligible for funding only if recommended on a student's educational plan by an academic counselor. A maximum of 30 remedial course units will be eligible for financial aid funding.

Probation
- Approved appeals result in the student being placed on SAP probation.
- Students may receive financial aid during terms of probation.
- Students can regain eligibility by making SAP at the end of one term of probation.
- Students must complete 67% of the units attempted along with a 2.0 GPA each semester while on probation.
- Students must follow their academic plan while on probation.
- The institution will verify each term that the student is following the academic plan and/or meeting terms of probation; if not, the student becomes ineligible for federal and state student aid until SAP standards are met.

Student Services

Scholarships

The Financial Aid Office serves as an information center for students interested in scholarships and grants. Solano College offers a number of scholarships from awards provided by a variety of social and professional organizations. Qualifications vary according to conditions stipulated by the donors of the funds. Recipients are usually selected on the basis of academic ability, promise for continued scholarly achievement, special talents and/or leadership abilities. The following scholarships are may be offered on an annual basis at Solano Community College:

- Alpha Gamma Sigma Scholarship Society
- Allison Rael Banks Memorial
- Frank Buck Scholarship
- Chancellor's Office Real Estate Scholarship
- Delta Kappa Gamma Delta, XI Chapter
- Doris M. Higgins Scholarship
- Fairfield-Suisun Rotary "Most Deserving" Scholarship
- Bill Gates Millennium Scholarship
- Golden Gate University Scholarship
- Vallejo Business & Professional Women's Club
- Malcolm X Scholarship
- Nursing-La Societe Des Quarante-Hommes et Huit Chevaux (40 & 8)
- Re-Entry Scholarship
- Solano Association of Realtors
- Solano Republican Women Federated Scholarship
- Soroptimist International of Vacaville
- The Sparkettes
- Bill Thurston Ethnic Studies Scholarship
- Vallejo Federated Women's Club Scholarship
- John Webster Scholarship

Students interested in applying for these scholarships should refer to *www.solano.edu,* click "Financial Aid" then "Scholarship" or contact the Financial Aid Office, Student Services Building 400, Fairfield Main Campus, (707) 864-7103 for additional information.

(Refer to **SCC Scholarship Foundation** for updated information)

HEALTH CENTER FOR STUDENTS

The Student Health Center is available for all full-and part-time students during the fall and spring semesters. A registered nurse with public health experience is available to educate students about healthy living and disease prevention, to assist students who are ill, and to provide students with referrals to community resources. The Health Center is located in the Student Center, Room 1409, and is open Monday through Thursday, 8 a.m. to 7 p.m., and on Friday, 8:30 a.m. to 3 p.m. (707) 864-7163.

INTERCOLLEGIATE ATHLETICS

The Intercollegiate Athletics Program is governed by the California Community College Athletics Association. Solano 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 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 College coach. Intercollegiate athletic sports offered are:

MEN
ATHL 015 Intercollegiate Baseball (Spring)
ATHL 016A/016B Intercollegiate Basketball (F/S)

WOMEN
ATHL 001 Intercollegiate Volleyball (Fall)
ATHL 002A/002B Intercollegiate Basketball (F/S)
ATHL 003 Intercollegiate Softball (Spring)
ATHL 004 Intercollegiate Soccer (Fall)

MEN AND WOMEN
ATHL 010 Intercollegiate Swimming/Diving (S)

LIBRARY

The Library offers services at the Vallejo Center, the Vacaville Center, and on the Fairfield campus. On the Fairfield campus (in Building 100) the Library offers access to over one million items through SNAP, a consortium of public and community college libraries in Solano and Napa counties. Patrons also have access to a variety of online, full text magazines, journals, newspapers, e-books, and other digital resources. The Library provides free, daily delivery of SNAP materials located at other SNAP libraries.

Student Services

The Library houses a reserve collection of class-related materials, 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, Power-Point, 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, both day and evening hours when classes are in session, and is closed on all school holidays and breaks between sessions. The Library's Web site (*http://www.solano.edu/library*) posts current hours of operations.

MATHEMATICS, ENGINEERING AND SCIENCE ACHIEVEMENT (MESA)

The MESA program offers a wide range of support for students planning to transfer to a university in a calculus based math, science, or engineering related major. This program assists economically and educationally disadvantaged students by helping them overcome educational barriers through strong academic assistance, and by making students aware of the many opportunities in math-related fields. Students must be enrolled in intermediate algebra or higher math and be part of a calculus based science, technology, engineering, or math (STEM) major to qualify for the MESA program.

Academic services offered by MESA include: academic excellence workshops, MESA tutoring, MESA study, and computer center. Counseling services offered by MESA include: transfer / advising information, individual education plans, career counseling and personal counseling. MESA student activities include: summer research, science and leadership conferences, university tours, scholarships, and student support. For more information about the MESA Program, please contact the MESA office at (707) 864-7000, ext. 4498, or log on to *http://www.solano.edu/mesa/*.

OCCUPATIONAL EDUCATION — WORK EXPERIENCE

Earn 1 to 6 transferable units per semester for working in a paid or unpaid part-time or full-time position with a licensed business or 1.5 units brushing up on soft skills – no job required! We offer:

OCED 090: Occupational Work Experience.

For those students working or volunteering in positions which are directly related to their declared major. Students can earn 1 unit for each 75 hours paid or 60 hours unpaid work per semester – up to 6 units per semester to a total of 16 units over multiple semesters. We offer full-semester, 12-week and 8-week sections. For a breakdown of how many hours students need to work visit our website at *http://www.sccworkexperience.com/*.

OCED 091: General Work Experience

For those working or volunteering in jobs not related to their major. Students can earn 1 unit for each 75 hours paid or 60 hours unpaid work per semester – up to 6 units per semester to a total of 6 units over multiple semesters. We offer full-semester, 12-week and 8- week sections. For a breakdown of how many hours students need to work, visit our website at *http://www.sccworkexperience.com/*.

OCED 090 and 091 full-semester sections are online classes that involve a one-time required on-campus orientation with weekly activities conducted in an online format. 12- and 8-week sections meet in-person once a week for one hour. OCED 090 and 091 may not be taken concurrently. Hours credited to OCED 090 or 091 may not be used with any other experiential course or practicum in the same semester.

OCED 070: Occupational Soft Skills

No job or volunteer work required. This 8- week 1.5-unit course will provide students the necessary skills to become valuable employees and get started on the path to an internship or job.

PUENTE PROJECT

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:

1) A rigorous one-year writing program, ENGL 370/370L Accelerated English and ENGL 001-English Composition. These classes provide a supportive and stimulating environment for Puente students to build confidence in writing skills.

2) Focused counseling services. Students work closely with the Puente counselor until graduation, exploring career options, developing an academic educational plan and identifying lifetime goals. Students 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. For more information, please contact the Counseling Office at (707) 864-7000, ext. 7101.

SCHOLARSHIP FOUNDATION

The Solano College Scholarship Foundation is a non-profit corporation that awards scholarships to Solano College students on the basis of academic achievement and demonstrated potential for excellence. The Scholarship Foundation is administered by a Board of Directors providing representation from the communities of Solano County.

Beginning with the three scholarships that were presented in 1974, the scholarship program has grown through the years. In 2014, awards totaling almost $34,000 were presented to 56 Solano students. The goal of the Scholarship Foundation is to promote academic excellence among Solano students by recogniz-

ing and rewarding outstanding students. Almost all of the scholarships require students to have completed 24 graded units of coursework at Solano with a cumulative GPA of at least 3.30.

The Scholarship Foundation administers two scholarship programs: the General Scholastic Achievement Program and the Memorial and Special Endowment Programs. These scholarships have been established to honor and commemorate specific individuals and purposes. Most have designated majors and/or other specific qualifying requirements that determine eligibility for consideration.

The Memorial and Special Endowments Scholarships
- *Academic Senate Distinguished Scholar Award*
- *ASSC Academic Scholarship*
- *ASSC Leadership Scholarship*
- *Chloe Beavers Tribute (Cosmetology)*
- *Dr. Marge Blaha Memorial (Re-entry, female, transfer major)*
- *California Teachers Association Scholarship (Education, interest in teaching)*
- *Richard and Billie Chabolla Award (Business or Music)*
- *Jean Chapman Scholarship (Science)*
- *Amy L. Chun Scholarship (Science, Math, Technology)*
- *Naomi "Chris" Christensen Memorial (Music)*
- *Joe Clevenger Tribute Scholarship (Business Administration)*
- *James "Jim" Cooper Memorial (Business)*
- *George and Nancy Daugavietis Scholarship*
- *John and Carol DeKloe Biotechnology Scholarship*
- *Christine G. Ducoing Scholarship (Female, Engineering, Physics, Chemistry)*
- *Ray O. Duey Memorial (Registered Nursing)*
- *Eddie Edwards Memorial (Re-entry)*
- *Evelyn Elson Scholarship (ECE, re-entry preferred)*
- *Fairfield-Suisun Twilight Rotary Club (Business or related major)*
- *Jane H. Ford Memorial (English)*
- *Robert D. Ford Memorial (Science)*
- *David Froehlich Scholarship in Music*
- *Nick Gentile Memorial (Business)*
- *Gilbert Scholarship (Re-entry, history)*
- *Rachel Goodwin Memorial*
- *Chuck Gray Memorial (Photography)*
- *Harry Gray Memorial (History or Political Science)*
- *Phillip Moses Gray Memorial (Re-entry, male, Human Services)*
- *Dr. Carolyn Anne Green Memorial (Registered Nursing)*
- *Richard E. Green Award for Individual Perseverance*
- *Peggy and Vernon Gross Memorial (Wildlife interests, Audubon Society)*
- *Bob Hamilton Memorial (Science)*

- *Ralph Hanson Memorial (Language Arts)*
- *Buelah Hawkins Memorial (Re-entry, female, essay required)*
- *James "Doc" Hollister Memorial*
- *Hosley Family Scholarship (Academic Excellence/Transfer)*
- *Margaret Lee Jenkins Memorial (Cosmetology)*
- *Gerald Korte Scholarship in History*
- *Howard Love Memorial Scholarship (Applicant has intent to apply for medical, dental, veterinary or pharmacy schools)*
- *Carmen Camille Cook Johnson Memorial (Re-entry, ECE, Social Science, Education)*
- *Kirkorian Family Memorial (Education)*
- *Phuong Le Memorial Scholarship for Nursing*
- *Clyde Low Scholarship (History, Library Science)*
- *Materials Science Scholarship*
- *William Michaels Memorial (History or Vocational Education)*
- *Jim Mills Scholarship (Biotechnology)*
- *Martin Mini Memorial*
- *Math and Science Faculty Scholarship*
- *Mooy-Durkin memorial Scholarship (Interest in Teaching)*
- *Diana Muir Memorial (Re-entry, English)*
- *Napa/Solano Psychological Association (Psychology, Counseling)*
- *Mary C. and Henry A. Ornellas Memorial (Fashion Design, Music, or Cinematography)*
- *Dr. Delphine Palm Memorial (Biological Science or Medical Field)*
- *Robert (Bob) Pokorny Memorial (Education)*
- *Henry Power Memorial (Aeronautics)*
- *Dr. Sally Ralph Memorial (Psychology/Counseling)*
- *Clarence Rose Memorial (Computer Science, Math, Engineering)*
- *Steve Ryder Memorial (Nature Appreciation)*
- *SCC Cosmetology Scholarship*
- *Art and Myrna Satterlie Scholarship (Math, Engineering, Science)*
- *Bob Scott Mathematics Scholarship*
- *Don Seigel Journalism/English Scholarship (Journalism major or Tempest staff member)*
- *Sierra Club Scholarship, Solano Group (Environmental Concerns)*
- *Charlene Snow Memorial Scholarship (Re-entry Woman)*
- *Solano District Scout House Scholarship (Eagle Scout)*
- *Alvin E. and Jeanne E Soliday Scholarship (Environmental Science)*
- *Dennis Stevens Memorial (Fire Science)*
- *Taylor Scholarship (Re-entry)*
- *Dr. Jane M. Thompson Memorial (Business or Computer Science)*
- *Mac Tilley Memorial (Electronics)*
- *Malcolm Henry Tipp Memorial Scholarship (Business,*
- *Computer Science)*
- *Charlotte Waggy Memorial*
- *Gloria Green Wellington Award (Nursing)*
- *Lawrence "Jack" Wheeler Memorial (Counseling)*
- *Willis Jepson Chapter, California Native Plant Society (Native Plant Biology, Biology, Horticulture)*
- *Bill and Jean Wilson Memorial (Leadership/Service, Athletics)*
- *Morgan "Porky" Wood Memorial (Athletics)*

For additional information, please visit the Solano College website at ***www.solano.edu/scholarship_foundation/***. Contact the Scholarship Foundation by email addressed to ***dorothy.hawkes@solano.edu***, by leaving a phone message at 707-864-7202, or by mail to the SCC Scholarship Foundation, P.O. Box 2208, Fairfield, CA 94533.

SERVICEMEMBERS OPPORTUNITY COLLEGES (SOC)

Solano Community College has been designated as an institutional member of Servicemembers Opportunity Colleges (SOC), a group of over 1,800 colleges and universities providing voluntary postsecondary education to members of the military throughout the world. As an SOC member, Solano College recognizes the unique nature of the military life-style and has committed itself to easing the transfer of relevant course credits, providing flexible academic residency requirements, and crediting learning from appropriate military training and experiences.

STUDENT CLUBS

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 1425 from 12:30 – 1:30 p.m. during the Fall and Spring semesters. Announcements of meetings and activities are available from the Student Life Office, Room 1425, or call (707) 864-7000 ext. 4367.

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 him/her by another student, staff member, group or campus organization, the student may file a complaint with the Associate Vice President of Human Resources, (707) 864-7000, ext. 7122. The Associate Vice President of Human Resources also serves as the Staff Diversity Officer, Title IX Coordinator and the Section 504/ADA Coordinator.

At any time the student may submit his/her complaint to any of the following agencies: California Department of Fair Employment and Housing at (800) 884-1684; U.S. Department of Education, Office of Civil Rights at (415) 556-5555; 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 his/her educational rights. It may arise when a student believes he/she has been denied educational rights provided by college, state, and federal policies, rules, regulations.

Copies of Solano College's current procedures on "Student Grievances: Non-Civil Rights (§5350)" are available free, upon request, from the Chief Student Services Officer, or designee (Room 433, Student Services Building) or on the College's website at: *http://www.solano.edu/district_policies/series5300_student_rights.php.* These procedures include specific, step-by-step actions that must be followed to register a grievance, describe the hearing process, and establish the time limits under which these procedures operate.

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
   b. 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.
   c. 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.
   d. 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 author-

ized 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.

i. Littering on campus property, including grounds, facilities, and parking lots.

3. **Computer Usage Violations: Students are to conduct themselves in accordance with Governing Board Policy 2067 and Human Resources Procedures 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.

4. **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.

5. **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.

6. 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.

7. 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 Chief or designee. Previous violations of 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 Development Office (Room 1425/1426), the Chief Student Services Officer (Room 433), and the Counseling Office (Bld 400).

Student Disciplinary Procedures: The Chief Student Services Officer 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 Chief Student Services Officer (Room 443, Building 400).

STUDENT LIFE OFFICE

The Student Life Office, located in Room 1425/1426 of the Student Center, provides students with information about campus activities, special events, resources, and policies. Also, the College's Lost and Found department is located in this office. The Student Life 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 and the student government play an important role in developing and supporting these activities. Students are involved in decision making and policy determination through their representation on many college committees. For information call (707) 864-7000, extension 4367.

DISABILITY SERVICES PROGRAM (DSP)

This program offers supportive service for students with physical, visual, hearing, learning and psychological disabilities or other medical problems. The purpose of this program is to enable persons with a disability to integrate successfully into the college program. Some of the supportive services are: specialized counseling, priority registration, assistive

Student Services

computer technology/alternate media, volunteer notetakers, specialized equipment, mobility services, and community agency liaisons. Also, adapted educational programs in Horticulture and Kinesiology (Physical Education) are offered.

The College campus is ideal for the student with physical disabilities. Most rooms are on the ground level with many accessible restrooms and ramps, and second floor classrooms are accessible by elevator. The DSP maintains a working relationship with the Solano County Office of Education Department of Rehabilitation, Mental Health, Veterans Administration, Worker's Compensation (Private Rehab) and similar agencies. For further information call (707) 864-7136, or come to Building 400, Room 407, Fairfield campus.

TECHNOLOGY SERVICE & SUPPORT
Technology Services and Support is located in the Library Building (Bldg. 100). Technology Services & Support is responsible for all matters related to information technology services, strategic technology planning, and local data/telephone network planning and implementation. It exercises overall responsibility for administrative computing, academic and instructional technology support programs, telephone, network infrastructure, local and wide area networks, media, and videoconferencing. The office is open Monday through Friday, 8 a.m. to 5:00 p.m., and closed on weekends, all school holidays, and breaks between sessions.

TRANSCRIPTS-SOLANO COMMUNITY COLLEGE
Please visit our website *www.solano.edu* for transcript information. Click on the Admissions and Records Link, and then click on transcripts. For additional help, email us at *admissions@solano.edu*. You may also visit or call our office during business hours (707) 864-7171.

TRANSPORTATION
Public transportation to Solano College is available via local city transit agencies. For schedules and fares, contact the appropriate local agency. Information on bus schedules, ride shares, and carpools is available in the Student Life Office, Room 1425/1426. Also, bus schedules are available on the College web site at *www.solano.edu/student_development/carpool_bus.php*

TUTORING
Students may receive free tutoring in most subjects offered at Solano College. Students interested in being hired as paid tutors, or students desiring assistance with their study load, should contact the Tutoring Center, located Bldg. 400, or call (707) 864-7230.

VERIFICATION OF ENROLLMENT
Solano College has authorized the National Student Clearinghouse to act as its agent for verification of student enrollment status. You can obtain an official Enrollment Verification Certificate at any time via the Clearinghouse web site at *www.studentclearinghouse.org*. There is a cost for this service. Please visit our website for additional information at *www.solano.edu* then click on the Admissions and Records link.

*Fees are subject to change. Visit the Clearinghouse website for current fees.

VETERANS AFFAIRS
Solano Community College is an approved educational institution by the CA Department of Consumer Affairs Bureau for Private & Vocational Education, under Title 38, United States Code. The Veterans Affairs Center (VAC) provides assistance to veterans, reservists and eligible dependents of veterans in their pursuit of an education and in obtaining their Veterans Educational Benefits. US DVA also offers additional allowances through a work-study program for those who are receiving Veterans Educational Benefits. For specific information regarding eligibility of Veterans Education Benefits, please visit our office located in Building 400, Room 429, or call: (707) 864-7105.

Admission and Registration

MATRICULATION

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

- Admission to the College
- Testing in Writing and Reading
- Orientation to the College
- Assessment of abilities and interests
- Counseling and advising
- Registration for courses
- Follow-up of student progress
- Various support services

Each student has the following responsibilities regarding matriculation 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 by the 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, in addition to test results, as the basis of assessment for counseling/advisement
- Provide special accommodations for ethnic and language minority students and 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 matriculation services

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

Exemptions. The following students are exempt from matriculation:

- 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)

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 the Solano Community College Admissions and Records Office, 4000 Suisun Valley Road, Fairfield, CA 94534.

APPLICATION FOR ADMISSION

Applications for admission with detailed instructions are available on the college Web site at *www.solano.edu*.

An application must be submitted if a student is:

1. A new student entering Solano Community College for the first time, or
2. A returning (former) student who did not attend Solano during the prior semester, or
3. An international student (*www.solano.edu/international/apply.php*), or
4. A student in grades K-12 enrolled in a public or private school seeking special admission.
5. All domestic students should apply online at *www.solano.edu* click "MySolano**."**

At the time of printing, the Special Admission process was under review with changes expected to happen in 2015-16. Please visit the A&R website for current information, *http://www.solano.edu/oar/*

Admission and Registration

SPECIAL ADMISSION (K-12)

Solano 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 opportunity 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.

Please visit our website for additional information at *www.solano.edu* then click on the Admissions link.

INTERNATIONAL STUDENT ADMISSION

Solano College admits international students each semester. We accept applications 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 from the IELTS test a score of 7.0.
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 Advisor each semester for approval of their academic programs. Each student must maintain enrollment in at least 12 semester units of academic work each semester. Non-resident tuition is $199 per unit plus the $46.00 per unit enrollment fee for the 2015-16 school year. All fees are subject to change by the Board of Governors.

Email to *international@solano.edu* for additional information, or visit *www.solano.edu/international/index.php.*

RESIDENCY

The California residency requirement has two parts, Act and Intent. To claim residency a student must have lived and shown intent to reside in California by: a) paying California income taxes; b) possessing a valid California driver's license; c) registering and voting in the state; d) owning and registering a car in California, and/or 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 Residency Assistant in the Admissions and Records office.

SCCID (SOLANO COLLEGE IDENTIFICATION NUMBER)

All students admitted to Solano College will be issued an SCCID upon receipt of their application for admission. The SCCID is your primary identification number. The SCCID provides an added layer of protection to combat ever-increasing occurrences of identity theft.

TRANSCRIPTS FOR ADMISSION

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

1. Applicants for the Nursing Program.
2. Veterans.
3. Students enrolling in English and mathematics courses.
4. International students.
5. Students receiving financial assistance.

Admission and Registration

6. Recipients of California State Scholarships must file high school transcripts showing the eight semesters.
7. 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. Please visit our web-site *www.solano.edu* for transcript information. Click on the Admissions and Records link, then click on Transcript for additional help, or email us at *admissions@solano.edu.*

REGISTRATION ASSESSMENT/ ORIENTATION PROGRAM

All new, non-exempt students (see Exemption criteria listed under "Matriculation") should complete the matriculation process prior to registering for classes. Assessment, Orientation and Counseling are part of this matriculation process.

In addition, all students enrolling for the first time in any English, English as a Second Language, or read-ing class must complete the appropriate testing to meet department requirements. Students who take the standard English placement tests also will be required to take a mathematics test.

Procedures: To gain the most from this College serv-ice, you should plan on completing the matriculation process in the following sequence:

1) Complete and file an "Application for Admis-sion" with the SCC Admission & Records office (A&R) [Note: this can be done online at the SCC Web site: *www.solano.edu*]
2) Attend a scheduled test session and take the math, reading and writing tests (contact a coun-selor if you think you might be eligible for a testing waiver)
3) Complete an on-line orientation session, found on the College's Web site under "Counseling" (*www.solano.edu/counseling*) or enroll in COUN 101-Orientation for College Success (1 unit)
4) Meet with a counselor to complete an education plan
5) Register for classes

Additional information may be obtained from the Counseling Center or at the Admissions and Records office. Students should schedule an assessment test online at *www.solano.edu/assessment.* The Center is located in Building 400, Room 442. Students may also phone (707) 864-7000, ext. 4525 for more information.

Waivers: Students who have completed testing or coursework in English at another college or who have had equivalent educational experiences in high school may be eligible to receive a waiver for matriculation testing or orientation. Contact a counselor for detailed information.

DEBTS

Most debts for the current semester that are associated with registration can be paid online. If you do not have internet access or your debt involves special circumstances, please contact Admis-sions and Records.

Students are advised to keep receipts as proof of payment if you pay on the web. Print a copy of the confirmation page for your records.

Debts left unpaid may be subject to collections and/ or holds on student's records

OFF-CAMPUS CLASSES

Classes are offered at three off-campus centers in Vallejo, Travis Air Force Base, and Vacaville. The Vallejo Center is located at 545 Columbus Parkway, Vallejo. Travis University Center is located at 530 Hickam, Travis AFB. The Vacaville Center is located at 2001 N. Village Parkway, Vacaville. In addition to the sites listed above, each semester there are classes offered at many other locations. Students should con-sult the Schedule of Classes for specific locations and times. For convenience, registration for off-campus classes can be accomplished online at the College web site. Counseling services are generally held at three off-campus locations, the Vallejo Center, Travis Uni-versity Center, and the Vacaville Center. Further infor-mation is available in the Schedule of Classes, on the College web site at: *www.solano.edu*, or by calling the Admissions and Records office (707) 864-7171. It is advised that for classes offered at the Travis University Center students should view the Solano Community College web site to meet the security requirements for Travis Air Force Base.

Admission and Registration

PHOTO-IDENTIFICATION CARD ($5.00)

A photo-identification card is recommended for all students, except students who enroll in fee-based courses offered by Community Services. Students should carry their card while on campus. The fee of $5.00 is payable at registration and allows the bearer to use the card during nine consecutive semesters of attendance. The card must be validated each semester upon presenting proof of registration. Students with a validated ID card are eligible for off-campus student discounts. There is no charge for the validation. Student ID cards may be obtained in the Student Life Office, Room 1425/1426 (Bldg. 1400).

SCHEDULE OF CLASSES

A searchable class schedule is online at *www.solano.edu*.

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 or visit our Web site at *www.solano.edu*. The following registration procedures apply to students enrolling in day, evening, on-campus, and off-campus classes. All debts to the College must be cleared before students may register for classes.

Registration: Students who wish to enroll in classes for the next semester can obtain registration information from the Schedule of Classes or online at *www.solano.edu*.

The Schedule of Classes contains registration information and instructions. Registration is conducted by priority. The priority registration definitions/schedule are listed in the Schedule of Classes and online approximately 2 weeks prior to the start of the registration period. Payment is due upon registration.

LATE REGISTRATION

During the first week of each semester, students may register for additional courses if class space is available. (See academic calendar at *www.solano.edu* for all deadlines.)

Adding Classes and/or Late Registration:
1. Students 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 via the College web site.
2. All enrollment fees must be submitted upon registration.

Dropping Classes:
1. Students must drop classes online at *www.solano.edu*
2. Students *may* be dropped from class by the instructor.
3. Students should check their Schedule Bill for course deadlines.

FEES

Fees are due and payable at the time of registration. All debts to the College must be cleared before students may register for classes.

Students are responsible for officially dropping their courses before established deadlines. Non-attendance or non-payment of fees will not remove you from a course nor alleviate your responsibility to pay fees.

Students who do not officially drop courses may receive an "F" for the term and incur a student debt. Students should drop courses online.

NON-RESIDENT TUITION

Non-residents (out-of-state and international students) must pay tuition fees at the time of registration. The tuition fee for the 2015-16 academic year, effective the first day of the summer session, 2015, is $199 per unit. All non-resident students are also required to pay a $46 per unit enrollment fee. Fees are subject to change.

ENROLLMENT FEES AND OTHER COSTS

- Enrollment fee: $46 per unit.*
  There is no enrollment fee for noncredit classes. Fees are due and payable at registration. All debts to the College must be cleared before students may register for classes.
- Parking permits are required for students parking their vehicles at the Fairfield campus, Vallejo and Vacaville Centers - $20 fee per vehicle.
- Student transcript fee: $4.00; Rush service $7.50; $1.00 unofficial transcript.
- Student on campus enrollment verification fee: $1.00; Verification service through the National Student Clearinghouse: Visit the Clearing House web site for current fees.
- Health fee: Fall/Spring-$13.00; Summer-$5.00**
- Student photo ID for on-campus students: $5.00 (good for nine consecutive semesters when validated).

Admission and Registration

- Student Center fee: $1 per credit hour, up to a maximum of $10 per student fiscal year (July 1-June 30).
- Library fines: 25 cents per day, per overdue book or other materials.
- Parking citations: $20 (for regular parking citations); $275 (for handicapped parking citations).
- Diploma mailing fee: $3
- Certificate of Achievement mailing fee: $1
- Instructional and required materials fees: See the Schedule of Classes.

* 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. Fee waiver forms may be obtained from the Financial Aid Office. The enrollment fee is subject to change by the State Legislature.

Refer to Financial Aid Programs & Eligibility on page 21 for BOG fee Waiver (BOG FW) information.

APPLYING FOR REFUNDS

Classes dropped by appropriate deadlines are automatically refunded. Any outstanding debts are deducted from refunds. Fees are refunded by check 2-4 weeks after classes are dropped.

California Community Colleges Enrollment and Non-Resident Tuition Fee
Fall and Spring Semesters – Full Term Classes
Through refund deadline, 100% of the California Community College Enrollment Fee will be refunded.
Summer Session and Short-Term Courses
Through 10% of the course, 100% of the California Community College Enrollment Fee will be refunded.

Non-Resident Tuition
Refunds must be requested at Admissions & Records.

Photo I.D.
The Photo I.D. fee is refundable if the I.D. has **not** been issued to the student, and the Request for Refund form with the original receipt is received in the Admissions and Records office by the end of the second week of instruction or 10% of the class for short-term courses.

Health and Student Center Fees
The Health and Student Center fees are only refundable if all classes are dropped prior to the beginning of the semester.

**Health Fee Exemptions

Since 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 following students are exempt from paying the mandatory health fee:
(1) Students who depend exclusively upon prayer for healing in accordance with the teachings of a bona fide religious sect, denomination, or organization.
(2) Students who are attending a community college under an approved apprenticeship training program.

Students who fall within any one of the two grounds for exemption may apply for a fee waiver by submitting a written request to the Office of Student Development.

*Subject to change

Transfer of Credit from Other Colleges
Only those courses from regionally accredited colleges may be accepted for transfer to a degree or certificate program.

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: Executive Vice President of Academic and Student Affairs or designee (Chairperson), Academic Dean , Director of Admissions and Records, one counselor, two faculty members (appointed by the Academic Senate), and one classified staff member from Student Services. In the event that the Executive Vice President of Academic and Student Affairs, or designee, is unavailable, an additional Academic or Student Services Dean will be appointed to serve in his/her place.

2. Students may petition the Academic Council concerning any matter that pertains to their academic performance, enrollment status or registration/withdrawal procedures.

3. The Academic Council reviews the scope and content of each student's petition.

4. Students may obtain Academic Council petitions from the Office of Admissions and Records.

5. Students shall submit their completed form(s) to the Office of Admissions and Records.

6. All Academic Council actions are decided by majority vote. If there is a tie vote, the Vice President of Student Services may vote to break the tie.

7. The Academic Council meets on an as-needed basis.

8. 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.

9. 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 his/her petition.

10. Any student who is not satisfied with the Academic Council action taken on his/her petition may request a second petition review by the Academic Council or an opportunity to meet with the Academic Council in order to discuss his/her petition. Requests for a second review or a personal meeting are directed to the Chief Student Services Officer.

11. The Office of Admissions and Records is notified, by the Student Services Office, of all Academic Council decisions. The Disabled Student Program and Services (DSP&S) Extended Opportunity Programs and Services, (EOPS) and the Counseling Division are notified about special counseling needs for students.

12. The Academic Council Petition for each studentis filed in his/her permanent cumulative folder along with a copy of the Academic Council's action.

STANDARDS FOR PROBATION AND DISQUALIFICATION

This policy and procedure is currently under review and likely to change during the 2015-16 academic year. Please see Admissions & Records or Counseling for most up to date information. Email *admissions@solano.edu*. 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 him/her to be placed on probation is the first probationary semester. Summer is not a primary semester. For most current information contact Admissions and Records at *admissions@solano.edu.*

Academic Probation

A. Placement on Academic Probation

A student shall be placed on academic probation for the following reasons:
A student has attempted at least 12 total semester units and has achieved a cumulative grade point (g.p.a.) average of less than 2.0.

B. Removal from Academic Probation

A student on academic probation is removed when his/her Cumulative g.p.a. 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.

(Reference: Student Services Policy and Procedures 5200)

Academic Regulations

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 g.p.a. of less than 2.0 for three consecutive primary semesters.
2. A student received 50% or more of transcript entries as "W", "I", of "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 g.p.a. 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 g.p.a. of 2.25 or greater, but does not have an overall cumulative g.p.a. of 2.0 or greater, shall remain on academic probation until the cumulative g.p.a. is 2.0 or better. (This condition only overrides A.1. above.)

If semester g.p.a. falls below 2.25 and/or student qualifies for Progress probation, student will be academically and/or progress dismissed.

Appeals
Students who are dismissed may file an appeal to contest the requirement of sitting out a primary semester with the Executive Vice President of Academic and Student Affairs 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
Pursuant to regulations established by the Board of Governors of the California Community Colleges, students may petition for the elimination of past sub-standard coursework (D, F, or NP) up to 30 units in the calculation of their cumulative grade point average. *(Reference: Student Services Policy and Procedures 5110)*

ACADEMIC RENEWAL – 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 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 three 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 three semester (not including summer session) time requirements; 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.
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 College.

Academic Regulations

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*.

AUDITING

Course auditing is permitted as a service to students who have completed designated credit courses for the maximum number of allowable enrollments. The purpose of auditing is to allow students to continue study, after course repeatability has been exhausted. A list of courses that have been designated for auditing is available in the Admissions and Records office. 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; and 4) audit fees shall not be refunded. The auditing fee is $15 per semester unit. NOTE: This is the fee at the time of publication; however, it is possible that the fee may be increased by the State Legislature and Governor at a later date. For up-to-date fee information, go to: *www.solano.edu*. One may apply to audit a designated course after the second 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.

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
B	Good	3
C	Satisfactory	2
D*	Passing, less than satisfactory	1
F*	Failing	0
P	Pass (at least satisfactory)	0
NP*	No Pass	
	(less than satisfactory or failing)	0

*Substandard grades (Title V 55761)

NON-EVALUATIVE GRADES

I	Incomplete	0
RD	Report delayed	0
W	Withdrawal	0
MW	Military Withdrawal	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 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 any 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 fifth week of the semester for a full semester course. Petitions for summer session and short-term courses must be filed within the first thirty per cent of the course.

Students should be aware that other colleges and universities may be reluctant to accept P/NP grades. Students should not take the P/NP grade option in their major fields of study.

GRADE REPORTS
Grades are available online via *MySolano*. Contact *admissions@solano.edu* for assistance.

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" card to the Division Dean. Students who do not complete the contract will be assigned a 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 Division 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."

HONORS
President's: The President's Honor List recognizes those students who earn academic honors each 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 units of work completed.

Deans': The Deans' Honor List recognizes those students who earn academic honors each 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 units of work completed. A grade point average (GPA) is determined by dividing the total number of grade points earned by the total units attempted, excluding Pass/No Pass courses and those in which W or I grades are earned. (Example: 36 grade points divided by 12 units attempted equals 3.0 GPA/B average.)

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 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 Development Office, Room 1425/1426, Fairfield campus. For detailed membership eligibility information, contact the PTK Advisor, c/o Student Services Office Room 433.

Academic Regulations

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.

REPEATABILITY OF COURSES**

**At the time of print, review of repeatability regulations was in progress. See Title 5 for current information or contact the Admissions and Records office.

For additional credit: Certain courses may be repeated if the course content differs each time it is offered and if the student is gaining an expanded educational experience. For information on repeatability for a specific course, consult the Course Descriptions section of the Catalog.

Special Circumstances: A course in which a grade of "C" or better was earned may be repeated when extenuating circumstances exist which justify such a repetition. Students must meet with a counselor to complete a "Repeat" petition. Students planning to transfer to a four-year institution should check that institution's policy on repeated courses.

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 student who has earned from 0 to 29.5 semester units of college credit.

Sophomore: A student who has earned from 30 to 60 semester units of college credit.

Full-time: A student enrolled in 12 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.

STUDENT LOAD

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

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. Petition for "Carry Excess Load" 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 Hrs.)	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

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 withdrawn from class rolls. Regular attendance and participation is required of all students enrolled in courses and laboratories at Solano Community College. This includes regular attendance, completion of examinations, assignments, participation in class activities and discussions. 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 or having their grades lowered. Students who fail to attend their classes may be dropped by their instructors no later than the end of 62.5 percent of a full-term class, short-term class, or summer session.

Students have the responsibility for verifying their enrollment status. **If students withdraw from classes, it is their responsibility to make sure that drop cards**

have been submitted to the Admissions and Records office or that they have completed the withdrawal online at *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.

Attendance and Progress of Veterans

Veterans and their dependents must initiate their claim for educational benefits through the Veterans' Affairs Center on campus. After classes begin, students are required to notify the Veterans' Affairs 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' Affairs 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 complete the drop process using the web online services. 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 should be dropped online.

Courses dropped after 20% of instruction through the end of 62.5% 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 shall 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 62.5% 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 fill out a Withdrawal Card at the Admissions and Records office or withdraw using the web online services. Seeing a counselor is advised before deciding to withdraw. It is important to clear any debts owed to the College before leaving the College. Failure to withdraw properly could result in a failing grade and a student debt.

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. Examples of Academic Dishonesty include:

Plagiarism:
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 always responsible for any plagiarism in their work.

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.

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 Chief Student Services Officer 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 he or she is 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 university 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.

Non-Traditional Learning

Solano Community College awards non-traditional credit for CLEP (College Level Examination Program), Credit by-Examination, Advanced Standing, USAFI/DANTES, formal military service schools, and military service. The maximum credit for all non-traditional 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 divisions. 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.

CLEP EXAMINATIONS APPROVED AT SOLANO COMMUNITY COLLEGE
Students who receive satisfactory scores on the CLEP (College Level Entrance Program) tests listed below will be awarded college credits for SCC equivalent courses. For more information contact the Office of Admissions and Records.

EXAMINATION	Credit SCORE	COURSE
GENERAL EXAMINATIONS:		
English Comp (with essay)	3 units	ENGL 001 (50)
Humanities	3 units	Elective Credit (50)
College Mathematics	3 units	Elective Credit (49)
Natural Sciences	5 units	Elective Credit (49)
Social Sciences & History	3 units	Elective Credit (47)
SUBJECT EXAMINATIONS:		
Pre-Calculus	5 units	MATH 004 (50)
American Government	3 units	PLSC 001 (50)
History of the United States I: Early Colonizations to 1877	3 units	HIST 017 (50)
History of the United States II: 1865 to the Present	3 units	HIST 018 (46)
American Literature	6 units	ENGL 030, 031 (46)
Analyzing & Interpreting Literature	3 units	ENGL 002 (47)
English Literature	6 units	ENGL 030, 031 (46)
College Composition	3 units	ENGL 001 (50)
General Biology	5 units	BIO 002 (49)
Calculus with Elementary Functions	5 units	MATH 020 (50)
General Chemistry	5 units	CHEM 001 or 002 (48)
Introductory Psychology	3 units	PSYC 001 (47)
Human Growth/Development	3 units	CDFS 038 (47)
Principles of Accounting	3 units	ACCT 001 (50)
Principles of Macroeconomics	3 units	ECON 001 (48)
Principles of Microeconomics	3 units	ECON 002 (48)
Introduction to Business Law	3 units	BUS 018 (50)
Information Syst & Computer Appl.	3 units	CIS 001 (50)
Principles of Marketing	3 units	MKT 171 (48)
Introductory Sociology	3 units	SOC 001 (46)

COLLEGE ENTRANCE EXAMINATION BOARD (CEEB)

College Board Advanced Placement (AP) Examination Credit
Students who receive a score of 3,4, or 5 on Advance Placement (AP) examinations are awarded college units for equivalent courses as indicated below. For more information you may contact the Office of Admissions and Records.

EXAMINATION	SCORE	Credit AWARDED	SCC Equivalent COURSE
English			
Language & Comp	3,4,5	3 units	ENGL 001
Lit & Composition	3	3 units	ENGL 001
Lit & Composition	4,5	6 units	ENGL 001, 002
FOREIGN LANGUAGES			
French Lang	3,4,5	5 or 3 units	FREN 003 or 011
French Lit	3,4,5	5 units	FREN 004
German Lang	4,5	5 units	GRMN 004
German Lang	3	5 or 3 units	GRMN 003 or 011
Latin (Virgil & Cattulus/Horace)	3,4,5	3 units	LATN 003
Spanish Lang	4,5	5 or 3 units	SPAN 003 or 011
Spanish Lang	3	5 units	SPAN 002
Spanish Lit	4,5	5 units	SPAN 004
HUMANITIES			
Studio Art	5	6 units	ART 001 - 048
Studio Art	3,4	3 units	ART 001 - 048
Studio Art (Draw)	5	6 units	ART 001 - 048
Studio Art (Draw)	3,4	3 units	ART 001 - 048
Art History	5	6 units	ART 001, 002
Art History	3,4	3 units	ART 001 or 002
U.S. History	3,4,5	6 units	HIST 017, 018
Eur History	3,4,5	6 units	HIST 004,005
Music Theory	3,4,5	3 units	Elective
NATURAL SCIENCE			
Biology	3,4,5	4 units	BIO 015
Chemistry*	4,5	5 units	CHEM 001
Computer Sc AB	3,4,5	3 units	CIS 022
Calculus AB	4,5	4 units	MATH 020
Calculus BC	4,5	8 units	MATH 020, 021
	or	6 units	MATH 030, 031
Physics B*	4,5	8 units	PHYS 002, 004
SOCIAL SCIENCE			
Gov't & Pol of US	3,4,5	3 units	PLSC 001
Econ (Micro)	3,4,5	3 units	ECON 002
Econ (Macro)	3,4,5	3 units	ECON 001

* Continuing Course: Determined by consultation with Division Dean and Division Faculty Member.

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 division. 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 (1) graded course other than those being taken for credit-by-examination, be in good standing (overall 2.0 GPA) and have completed a mini-

mum of 12 units in residence or will have completed a minimum of 12 semester units by the end of the current semester, exclusive of units to be earned by the credit-by-examination. All prerequisites must be met or waived by the Division Dean before a student takes an examination for credit, and no examination may be repeated. The maximum number of units that may be earned by credit-by-examination is 15. A petition for credit-by-examination must be filed with the Office of Admissions and Records no later than the fourth week of the semester. If the petition for credit-by-examination is approved by the Division Dean, the student returns the petition to the Office of Admissions and Records. Eligibility will be checked and payment of a fee for preparation and administration of the examination in the amount of $20 per course unit to a maximum of $120.

Students may obtain a copy of the policy and the credit-by-examination petition form online or at Admissions and Records service counters.

MILITARY TRANSCRIPTION 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 that 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 units of college elective credit. (**Specialized training may be used to meet Degree Major requirements by submitting a SCC Substitution Petition.)

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 (veterans submit DD214 Member 4 or Copy 2 or Copy 7) to the Office of Admissions and Records for evaluation. These units meet the health and physical education requirements for graduation.

Military Service credit is given towards California State University General Option C transfer for Area E with the submission of DD-214 Member 4 or Copy 2 or Copy 7.

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 require 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. You might also have to come to campus for a required in-person exam or orientation.

ONLINE: These classes utilize the Internet 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 of the class work at any computer connected to the Internet. They 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 on the course site. 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). 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.

Graduation Requirements

Associate Degrees and Certificates of Achievement are awarded at the close of each semester, fall, spring and summer.

It is the responsibility of the student who expects to receive a degree or certificate to file a petition with the Office of Admissions and Records. See the Office of Admissions and Records Academic Calendar for deadline dates.

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 grade of 'C' or better or P if the course is taken on a pass/no-pass basis and 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 programs. All credits earned in a certificate program may be counted toward the A.A/A.S. Degree and, in some instances, credit for certificate courses may be transferred to four-year colleges.

To be eligible for a Certificate of Achievement, at least 6 semester units in the field or a closely related subject must be completed 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 College offers two degrees, Associate in Art 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 of at least 60 semester units. Students must petition for degrees as described above. Students 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," a newly established variation of the associate degrees traditionally offered at a California community college.

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that accepts the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

Catalog Rights
Graduation requirements are determined according to the Catalog in effect at the time of first enrollment. 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 public 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.

*This policy and procedure is currently under review during the 2015-16 academic year. Please see Admissions and Records or Counseling for most up-to-date information. Email Admissions at **admissions@solano.edu**.*

Transfer of Credit From Other Colleges
Only those courses from regionally accredited colleges may be accepted for transfer to a degree or certificate program.

Total Units
A degree requires a minimum of 60 degree-applicable semester units. At least 12 semester units must be completed at Solano Community College. The student must have a 2.0 overall grade point average at the time of graduation.

Graduation Requirements

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 grade of C or better or a P if the course is taken on a pass/no pass basis.

General Education Philosophy and Criteria Statements
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.

Cross-Cultural Studies Requirement
The general education requirement for an Associate Degree from Solano Community College includes a 3 unit Cross–Cultural Studies course. Courses that satisfy this requirement are listed under "Area E."
Additional courses will be developed and added to the curriculum in the future; however, 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.

General Education Structure
There are three options available for completing the General Education requirements for the Associate Degree. Requirements for Option A, Option B, and Option C are as follows:
Option B
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 College requirements listed in Option A.

Please see the IGETC requirements listed on the pages entitled "Transfer to Four-Year Colleges and Universities."

Cross-Cultural Studies Requirement
At least one of the following cross-cultural courses must be completed in order to use this option to fulfill the Solano Community College general education requirement:
ART 012, CINA 011, COUN 055, ENGL 012, ENGL 036, HIST 037, CDFS 053, HUMN 003, MUSC 013, PLSC 005, SOCS 022, THEA 013.

Option C
To satisfy the general education requirements for the Associate Degree, completion of the California State University (CSU) general education 39-unit breadth pattern may be used in lieu of the requirements listed in Option A or B. In order to use this option, these courses must be completed with the grades required for admission to the CSU campuses. Please see a counselor for further information.
Please see the CSU GE requirements listed on the pages entitled "Transfer to Four-Year Colleges and Universities."

Cross-Cultural Studies Requirement
At least one of the following cross-cultural courses must be completed in order to use this option to fulfill the Solano Community College general education requirement:
ART 012, CINA 011, COUN 055, ENGL 012, ENGL 036, HIST 037, CDFS 053, HUMN 003, MUSC 013, PLSC 005, SOCS 022, THEA 013.

General Education
Option A   2015-2016

In using this option to complete the Solano College general education (GE) requirement, students should note:

1. Students must complete at least 21 units with a minimum of 3 units from each Area A, B1, C, D1, D3 and E, as well as the local District Health and Kinesiology requirement.
2. After meeting the minimum units required for each area, a student may select remaining units from all courses listed under the above areas or from Area B2 or D4. If two courses are selected from the same GE area, they must have a different course prefix for both to be used in satisfying GE requirements. Exceptions: English and mathematics.
3. The Area D2 reading requirement may be met by an exam or an approved reading course.
4. Courses with the same prefix as the student's major may not be used to fulfill general education requirements. Exceptions: ENGL 001 (Area D1), ENGL 062 (Area D2) and mathematics (Area D3).
5. Courses used to satisfy the English (Area D1), reading (Area D2) and mathematics (Area D3) requirements must be completed with a grade of "C" or better or a "P" if the course is taken on a Pass/No Pass basis.

21 GE Units (from this sheet) **+ _____** Major Units (see SCC Degrees/Certificates) **+_____** Electives (any class 001-199) **= 60 Units for AA/AS**

AREA A – Natural Science			
(minimum of 3 units)			
	C	IP	P
Physical Science ASTR 010, 030, 040; CHEM 001, 002, 003, 004, 010, 011, 051, 160; ENGR 030; GEOG 001; GEOL 001, 005; PHSC 012; PHYS 002, 004, 006, 007, 008, 010			
Biological Science ANTH 001; 001L BIO 002, 003, 004, 005, 012, 014, 015, 016, 018, 019			
Other courses that may be used to satisfy this requirement: HORT 050; NUTR 010			

AREA B – Social and Behavioral Studies			
(minimum of 3 units from Area B1)			
	C	IP	P
B1. HIST 017, 018, 028, 029, 037*; IR 001; PLSC 001, 004, 005*; SOC 002			
B2. The following courses do not fulfill the Area B requirement, but may be used if additional units are needed to meet the minimum 21 unit GE requirement ANTH 002, 007; CDFS 038, 039, 040, 050, 053*, 054, 070; COUN 050, 055*, 058, 083; CJ 001; ECON 001, 002; GEOG 002, 004, 006; HIST 010, 030, 031 JOUR 011; PLSC 002, 003, 006, 016, 019; PSYC 001, 002, 004, 005, 010, 020, 030; SOC 001, 023; SOCS 022*, 023, 025, 027, 028, 030			

AREA C – Humanities			
(minimum of 3 units)			
	C	IP	P
ART 001, 002, 003, 003A, 003B, 010, 011, 012*, 030B; CINA 010, 011*; COMM 015; ENGL 002, 012*, 014, 016, 018, 021, 023, 024, 025, 030, 031, 033, 038, 040, 041, 044, 058; FLNG 001-004, 011, 031-034; 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; PHIL 003, 004, 005; PHOT 035; SPAN 001S, 002S, 025, 026; THEA 006, 010, 011, 013*; TV 050			

C = Completed IP = In Progress P = Planned (L) Lab course * May be used in only one area.
+ Indicates that transfer credit may be limited by either UC or CSU or both. Consult a counselor for details

AREA D – Language and Rationality

(minimum of 6 units)

All three sections (D1, D2, & D3) must be satisfied including one course selected from D1 and D3 below

	C	IP	P
D1. Writing **ENGL** 001 (course must be completed with a "C" or better or "P" if taken on a Pass/No Pass basis)			

D2. Reading   This requirement may be satisfied by any **one** of the options listed below:
     a. Achieve a college level score of 95 or better on the SCC reading comprehension section of the assessment test.
     b. Achieve a grade of "C" or better in a college–level reading class ENGL 062.
     c. Proof of one of the following:
         1. An associate degree or higher from an accredited institution.
         2. A grade of "C" or better in a college-level reading course from another community college.
         3. College-level reading test scores from another college, or a score of 500 or more on the Critical Reading (CrRdg) section of the SAT, or a score of 23 or better on the English section of the ACT.			

D3. Communication and Analytical Thinking   This requirement may be satisfied by any **one** of the options listed below. Courses used to fulfill this requirement must be completed with a grade of "C" or better or a "P" if taken on a Pass/No Pass basis.
     a. A minimum of three units of an Intermediate Algebra level math course.
       MATH 104, 112, 114
     b. A minimum of three units of a transfer level math course.
       MATH 002, 004, 011, 012, 020, 021, 022, 023, 030, 031, 040, 051			

D4. The following courses do not fulfill the Area D requirement, but may be used if additional units are needed to meet the minimum 21 unit GE requirement.
 	
   COMM 001, 002, 006, 010, 060;   **CIS** 001, 020, 023;   **ENGL** 004;   **LR** 010;
   PHIL 001			

AREA E – Cross-Cultural Studies

(Minimum of 3 units)

	C	IP	P
ART 012*; **CDFS** 053*; **CINA** 011*; **COMM** 012; **COUN** 055*; **ENGL** 012*, 036; **HIST** 037*; **HUMN** 003*; **MUSC** 013*; **PLSC** 005*; **PSYC** 007; **THEA** 013*; **SOCS** 022*			

Local District Requirements – Health and Physical Education

	C	IP	P
Two Kinesiology activity courses or two Intercollegiate Athletic sports or any combination thereof that equates to two exposures.			
HED 002 or 003 may be substituted for one of the above mentioned activity courses.			

C = Completed IP = In Progress P = Planned (L) Lab course * May be used in only one area.
+ Indicates that transfer credit may be limited by either UC or CSU or both. Consult a counselor for details

Graduation Requirements

Petitioning for a Degree or Certificate

In order to receive a Degree and/or Certificate from Solano Community College you must file a completed Petition for Degree or Certificate with the Office of Admissions and Records during the appropriate time frame. It is recommended that you meet with your counselor regularly to ensure that you are meeting the necessary requirements.

In your last semester of attendance, you should submit your completed Petition for Degree or Certificate to the Office of Admissions and Records. Petitions are accepted beginning the first day of each term through a date that is set and published for each term. NO PETITIONS ARE ACCEPTED AFTER THE DEADLINE.

Please check Dates and Deadlines in *MySolano* for the deadline.

Petitions are reviewed by Admissions and Records and students are notified of the outcome 2-3 months after the term ends. Email *admissions@solano.edu* if you have questions.

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, please visit *www.solano.edu/graduation.*

Questions? Problems?

Email us at *admissions@solano.edu*

Associate Degrees for Transfer (ADT)

California Community Colleges are now offering Associate Degrees for Transfer (ADT) to the CSU. 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.

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 semesters 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 *http://adegreewithaguarantee.com/.* 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 that with the CSU Mentor website if planning to transfer to a California State University. Students must petition for the degree at Solano College Admissions & Records by February 15 for the spring term and September 15 for the fall term. If the date falls on a weekend/holiday, then the deadline is the next business day.

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 those campuses. Catalogs and detailed transfer information are available in the Counseling, Career, 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 see a counselor to discuss general education for their major and transfer school.

Obtaining regular counselor assistance with transfer education planning is essential for successful transition to four-year universities and colleges.

Transfer Programs
Solano Community College works closely with the UC, CSU, and independent institutions to create a seamless transition from SCC to the 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 G.P.A. 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 and UCLA.

Concurrent Enrollment
Students may enroll in one course at the UC or CSU at no additional cost while concurrently enrolled at Solano Community College. G.P.A. and unit requirements are enforced and students must be enrolled full-time. Contact the Office of Admissions and Records or a counselor for additional information and application.

Aerospace Studies (Air Force ROTC)
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 two-, three-, or four-year programs leading to a commission in the United States Air Force. All coursework (12 or 16 semester units) is completed on the CSUS campus. Drills and courses are normally offered on Tuesdays, Wednesdays, and Thursdays. Field Training is conducted during part of the summer at an active Air Force base, normally between the student's sophomore and junior years.

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.

Graduates who are qualified and are selected may enter pilot or navigator training after graduation, or serve in a specialty consistent with their academic major, individual goals, and existing Air Force needs. Graduates may request a delay of entry on active duty to continue their education or may apply for Air Force sponsored graduate study to begin immediately upon entry on active duty. Due to firm scheduling requirements for the AFROTC program, students are encouraged to work closely with their academic advisors in planning this academic program.

AFROTC offers 3-year and 2-year scholarships to qualified students. Applications are accepted in any academic discipline; however, particular emphasis is usually given to applicants in the fields of engineering, computer science, mathematics, and physics. Application to the AFROTC program should normally be no later than during the first semester of a student's sophomore year. Juniors, seniors, and graduate students may also apply under certain conditions. Contact the Unit Admissions Officer in the Aerospace Studies Department at CSUS, telephone (916) 278-7315, for information on the program or the entry process.

Intersegmental General Transfer Curriculum (IGETC) - Option B   2015-2016

The Intersegmental General Education Transfer Curriculum (IGETC) is a pattern 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. Students should request certification from Admission and Records prior to transfer. Please see a counselor for additional information and guidance.

Note: All courses used for IGETC must be completed with a "C" grade or better and must be IGETC approved at the time the course is completed.

___ **GE Units** (this sheet) **+ ___ Major Units** (see www.assist.org) **+___ Elective** (classes 001-049 UC, classes 001-099 CSU) **= 60 Units req.**

AREA 1 – English Composition			
CSU – 3 courses required one each from Group 1A, 1B, and 1C. UC – 2 courses required, one each from Group 1A and 1B			
	C	IP	P

Group A – English Composition (1 course, 3 semester/4-5 quarter units)
    ENGL 001
    Course from another college_____ Advanced Placement Exam _____			

Group B – Critical Thinking – English Composition (1 course, 3 semester/4-5 quarter units)
    ENGL 002, 004; **PHIL** 005
    Course from another college_____			

Group C – Oral Communication (CSU Requirement Only)
    COMM 001, 002, 006
    Course from another college_____ Advanced Placement Exam _____			

AREA 2 – Mathematical Concepts and Quantitative Reasoning			
1 course, 3 semester/4-5 quarter units			
	C	IP	P
MATH 002+, 004+, 011, 012, 020+, 021+, 022+, 023, 030+, 031+, 040 Course from another college_____ Advanced Placement Exam _____			

AREA 3 – Arts and Humanities			
At least 3 courses, with at least one course from the Arts and one course from the Humanities. 9 semester/12-15 quarter units			
	C	IP	P

3A – Arts
    ART 001, 002, 003, 003A, 003B, 010, 011, 012; **CINA** 010, 011; **MUSC** 005+, 007, 008, 013;
    PHOT 035; **THEA** 006, 009, 010, 011, 013, 048A
 	
    Course from another college_____ Advanced Placement Exam _____			

3B – Humanities
    ENGL 012, 014, 016, 018, 021, 023, 024, 025, 030, 031, 033, 036, 038, 040, 041, 044; **FREN** 002, 003, 004; **GRMN** 002, 003, 004, 011, 033, 034; **HIST** 002*, 003*, 004*, 005*, 010*, 017*, 018*, 028*, 029*, 031*, 037*; **HUMN** 001,002, 003; **PHIL** 003, 004; SPAN 002+, 003, 004, 025, 026, 033+, 034+
 	
    Course from another college_____ Advanced Placement Exam _____			

C = Completed IP = In Progress   P = Planned (L) Lab course   * May be used in only one area.
+ Indicates that transfer credit may be limited by either UC or CSU or both. Consult a counselor for details

AREA 4 – Social and Behavioral Sciences			
At least 3 courses from at least 2 disciplines/12-15 quarter units			
	C	IP	P
4A – Anthropology & Archaeology: ANTH 002, 007			
4B – Economics: ECON 001, 002, 010			
4C – Ethnic Studies: PLSC 005; **PSYC** 007; **SOCS** 022, 023, 025, 028			
4D – Gender Studies: PLSC 019			
4E – Geography: GEOG 002, 004, 006			
4F – History: HIST 002*, 003*, 004*, 005*, 010*, 017*, 018*, 028*, 029*, 031*, 037*			
4G – Interdisciplinary, Social & Behavioral Sciences: CDFS 038, 039; **COMM** 012; **JOUR** 011; PLSC 048G; **SOCS** 025, 027, 028, 030			
4H – Political Science, Government & Legal Institutions: CJ 001**; IR** 001; **PLSC** 001, 002, 003, 004, 005, 006, 016, 019			
4I – Psych: CDFS 038, 039; **PSYC** 001+, 002, 004, 005, 006, 007, 010, 020, 024, 030, 034			
4J – Sociology & Criminology: SOC 001, 002, 023, 030, 040, 045			
Course from another college_____ Advanced Placement Exam _____			

AREA 5 – Physical and Biological Sciences			
At least 2 courses; one Physical Science course and one Biological Science course; at least one must include a laboratory. **7-9 semester/9-12 quarter units**			
	C	IP	P
5A – Physical Science **ASTR** 010, 030+, 040+; **CHEM** 001(L), 002(L), 003(L), 004(L), 010(L)+, 011(L)+; **GEOG** 001; **GEOL** 001, 005; **PHYS** 002(L)+, 004(L)+, 006(L)+, 007(L)+, 008(L)+, 010+; **PHSC** 012(L)+ Course from another college_____ Advanced Placement Exam _____			
5B – Biological Science **ANTH** 001; **BIO** 002(L), 003(L), 004(L)+, 005(L)+, 012, 014(L), 015(L)+, 016+, 018, 019(L) Course from another college_____ Advanced Placement Exam _____			
5C – Laboratory Requirement (Select one laboratory unless met in 5A or 5B) **ANTH** 001L; **ASTR** 020; **BIO** 012L+, 016L+; **GEOG** 001L; **GEOL** 002			

Area 6 – Language Other Than English (UC Requirement Only)			
Proficiency equivalent to two years of high school study in the same language.			
	C	IP	P
Solano College courses that fulfill this requirement are: **ENGL** 046; **FREN** 001, 032; **GRMN** 001, 032; **ITAL** 032; **LATN** 002; **SPAN** 001, 001S, 032 Completed in high school_____ Course from another college_____ Advanced Placement Exam _____			

CSU Graduation Requirement			
CSU requires two American Institutions courses for graduation; one must be from Group 1 and one from Group 2. **Courses used to meet American Institution requirement may also be used to satisfy any other area.**			
	C	IP	P
American Institutions (Group 1) PLSC 001, 005			
American Institutions (Group 2) HIST 017, 018, 028, 029, 037			

SCC Graduation Requirement			
To meet the Solano Community College graduation requirement using Option B General Education, select one of the following cross-cultural courses below, which may be used in one other area as well. (Please note that if you are earning the AA-T or AS-T, you are exempt from this requirement.)			
	C	IP	P
ART 012; **CINA** 011; **COMM** 012; **ENGL** 012, 036; **HIST** 037; **HUMN** 003; **MUSC** 013; **PLSC** 005; **SOCS** 022; **THEA** 013 NOTE: **CDFS** 053 and **COUN** 055 also meet this requirement but are not UC transferable.			

C = Completed IP = In Progress P = Planned (L) Lab course * May be used in only one area.
+ Indicates that transfer credit may be limited by either UC or CSU or both. Consult a counselor for details

CSU General Education
Option C   2015-2016

The CSU GE pattern is a set of courses approved to meet lower division general education requirements at the California State University system. For full certification, a student must complete 39 units in each subject area (A-E) minimum. Partial certification is also available for students missing one or more courses. Students should request certification from Admissions and Records prior to transfer. Please see a counselor for additional information and academic guidance.

_____**GE** (this sheet) **+** _____ **Major Units** (www.assist.org) **+** _____**Elective Units** (any class 001-099 CSU) = **60 Units req.**

AREA A – English Language Communication and Critical Thinking			
(minimum of 9 units)			
	C	IP	P
A1 – Oral Communication COMM 001, 002, 006* Course from another college_____ Advanced Placement Exam _____			
A2 – Writing Communication ENGL 001 Course from another college_____ Advanced Placement Exam _____			
A3 – Critical Thinking COMM 006*; **ENGL** 002, 004; **PHIL** 001, 005 Course from another college_____			

AREA B – Scientific Inquiry and Quantitative Reasoning			
(minimum of 9 units) Select one physical science, one life science (one lab required) and one mathematics course.			
	C	IP	P
B1 – Physical Science **ASTR** 010, 030, 040; **CHEM** 001(L), 002(L), 003(L), 004(L), 010(L), 011(L), 051(L); **ENGR** 030; **GEOG** 001; **GEOL** 001, 005; **PHYS** 002(L), 004(L), 006(L), 007(L), 008(L), 010; **PHSC** 012(L) Course from another college_____ Advanced Placement Exam _____			
B2 – Life Science **ANTH** 001; **BIO** 002(L), 003(L), 004(L), 005(L), 012, 014(L), 015(L), 016, 018*, 019(L) Course from another college_____ Advanced Placement Exam _____			
B3 – Laboratory Courses (Select one laboratory unless met in area B1 or B2) **ANTH** 001L; **ASTR** 020; **BIO** 012L, 016L; **GEOG** 001L; **GEOL** 002			
B4 – Mathematics **MATH** 002, 004, 011, 012, 020, 021, 022, 023, 030, 031, 040, 051 Course from another college_____ Advanced Placement Exam _____			

AREA C – Arts and Humanities			
(minimum of 9 units) Select at least one course in each of the two categories, arts and humanities.			
	C	IP	P
C1 – Arts **ART** 001, 002, 003, 003A, 003B, 010, 011, 012, 030B; **CINA** 010, 011; **MUSC** 005, 007, 008, 013; **PHOT** 035; **THEA** 001, 002, 005, 006, 009, 010, 011, 013, 048A Course from another college_____ Advanced Placement Exam _____			
C2 – Humanities **ENGL** 006, 012, 014, 016, 018, 021, 023, 024, 025, 030, 031, 033, 036, 038, 040, 041, 044, 046, 047, 058; **FREN** 001, 002, 003, 004, 011, 012, 031, 032; **GRMN** 001, 002, 003, 004, 011, 012, 031, 032, 033, 034; **HIST** +002, 003*, 004*, 005*, 010*, 017*#, 018*#, 028*#, 029*#, 031*, 037*#; **HUMN** 001, 002, 003; **ITAL** 031, 032, 033, 034; **LATN** 001, 002, 003; **PHIL** 003, 004; **SPAN** 001, 001S, 002, 002S, 003, 004, 011, 012, 025, 026, 031, 032, 033, 034 Course from another college_____ Advanced Placement Exam _____			

C = Completed IP = In Progress P = Planned (L) Lab course   * May be used in only one area.
+ Indicates that transfer credit may be limited by either UC or CSU or both. Consult a counselor for details

AREA D – Social Sciences			
(minimum of 9 units) Select courses from at least two different course disciplines.			
	C	IP	P
D0 – Sociology & Criminology **SOC** 001, 002, 023, 040, 045, 075			
D1 – Anthropology & Archaeology **ANTH** 002, 007			
D2 – Economics **ECON** 001, 002, 010			

D3 – Ethnic Studies
  COMM 012; **COUN** 055; **HIST** 028*#, 029*#, 031*; **PLSC** 005#;
  PSYC 007; **SOC** 023; **SOCS** 022, 023, 025, 027, 028, 053			

D4 – Gender Studies **HIST** 037*#; **PLSC** 019; **PSYC** 010			
D5 – Geography **GEOG** 002, 004, 006			

D6 – History
  HIST 002*, 003*, 004*, 005*, 010*, 017*#, 018*#, 028*#, 029*#, 030*,
      031*, 037*#			

D7 – Interdisciplinary, Social & Behavioral Sciences
  CDFS 038*, 039; **JOUR** 011; **COMM** 012; **PLSC** 048G;
  PSYC 030; **SOC** 030; **SOCS** 028, 030, 053; **TV** 050			

D8 – Political Science, Government & Legal Institutions **CJ** 001; **IR** 001; **PLSC** 001#, 002, 003, 004, 005#, 006, 016, 019			
D9 – Psychology **CDFS** 038*, 039; **PSYC** 001, 002, 004, 005, 006, 007, 010, 024			
Course from another college_____ Advanced Placement Exam _____			

AREA E – Lifelong Learning and Self Development			
(minimum of 3 units)			
	C	IP	P

BIO 018*; **CDFS** 038*, 040, 050, 054, 070; **COUN** 007, 050, 058, 083, 098;   **HED** 002, 003; **NUTR** 010, 054; **PSYC** 006, 020, 034; **^KINE** 005Q, 005R, 006G
                                 (^Limitation on Area Credit)
    Course from another college_____ Advanced Placement Exam _____			

CSU Graduation Requirement			
CSU requires two American Institutions courses for graduation; one must be from Group 1 and one from Group 2. **Courses used to meet this requirement may also be used in Area C or D.**			
	C	IP	P
American Institutions (Group 1) PLSC 001, 005			
American Institutions (Group 2) HIST 017, 018, 028, 029, 037			

SCC Graduation Requirement			
To meet the Solano Community College graduation requirement using Option C General Education, select one of the **following cross-cultural courses below, which may be used in one other area as well. (Please note that if you are** **earning the AA-T or AS-T, you are exempt from this requirement.)**			
	C	IP	P
ART 012; **CINA** 011; **COMM** 012; **COUN** 055; **ENGL** 012, 036; **HIST** 037; **HUMN** 003; **MUSC** 013; **PLSC** 005; **SOCS** 022 or **THEA** 013			

C = Completed IP = In Progress   P = Planned (L) Lab course   * May be used in only one area.
+ Indicates that transfer credit may be limited by either UC or CSU or both. Consult a counselor for details

Transfer to Four-Year Colleges & Universities

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 course patterns. The first course pattern is known as the Intersegmental General Education Transfer Curriculum (IGETC) and the other is the California State University General Education 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 "C" or better.

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 completed.

Students may also elect to follow the specific general education requirements for the college to which they plan to transfer.

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 IGETC, a student must request certification. IGETC 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. **Please see a counselor to plan your course selection.**

California State Universities (CSU) Undergraduate Transfer Admission Requirement

Lower Division Transfer Admission Requirements—
Students are eligible for admission if they:
- Have completed 59.5 or fewer transferable semester college units (88.5 quarter units).
- Have a college grade point average of 2.00 or better 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 if they did not complete the 15-unit pattern of college preparatory subjects.
- Meet the eligibility index required of a freshman which requires SAT or ACT test scores.

Some campuses may require completion of English composition and general education math. 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 Transfer Admission Requirements—
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 2.00 or better (2.40 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 courses equivalent to general education requirements with a grade of C or better. 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 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.)

Transfer to Four-Year Colleges & Universities

Online application, instructions, and other information are available at *www.csumentor.edu*.

Identification of Baccalaureate Level Courses— California State Universities
1. Courses numbered 001 through 099 transfer for entrance and elective credit to all California State Universities.
2. Vocational courses designated for two-year programs are transferable for the Bachelor of Vocational Education (BVE) or other directly related four-year programs.

For additional information, contact a counselor.

General Education Breadth Requirements
Requirements for graduation from California State Universities include the completion of specific courses in general education. The requirements may be met by completing a total of 48 semester units in the following categories:
A. A minimum of nine semester units in communication in the English language, to include both oral communication and written communication, and in critical thinking.
B. A minimum of 12 semester units to include inquiry into the physical universe and its life forms, with some immediate participation in laboratory activity, and in math concepts and quantitative reasoning and their applications.
C. A minimum of 12 semester units from the arts, literature, philosophy, and foreign languages.
D. A minimum of 12 semester units dealing with human social, political, and economic institutions and behavior and their historical background.
E. A minimum of three semester units in study designed to equip human beings for lifelong understanding and development of themselves as integrated physiological and psychological entities.

Thirty-nine units of general education requirements that are completed at Solano Community College may be certified on the student's transcript. The remaining nine units must be upper division courses taken at the California State University from which the student will receive his/her Baccalaureate Degree. Please see the CSU GE requirements listed in the section entitled "Transfer to Four-Year Colleges and Universities."

University of California Undergraduate Transfer Admission Requirement

Transfer students need to plan their coursework carefully. Courses they take should, first, help them meet the minimum admission requirements for transfer. In addition, students should select community college courses that partially or completely fulfill a variety of other University requirements. All courses students take to meet University requirements must be transferable to UC.

Students increase their chances for admission and success after transferring if they develop and follow a pre-transfer plan of college coursework. Many prospective transfer students know which UC campus and program they wish to attend and have a general knowledge of University requirements; however, this is not enough to ensure a successful transfer. It is essential that students research the specific requirements of their intended major and campus and the community college courses that are approved to meet those requirements.

Knowing what the requirements are, and planning their community college program around them will maximize students' chances for admission to their first-choice campuses and programs. Meeting requirements in advance will give students more freedom when selecting courses once they enroll in the University. They may also be able to complete their undergraduate education within four years, without having to attend additional terms to meet requirements or take prerequisites.

Information to assist in the transfer process is available online at *http://www.ucop.edu/pathways* and in a variety of UC publications, including *Answers for Transfers* and the campus General Catalog. Solano Community College's UC Transferable Course Agreement and the articulation agreements with UC campuses are available online at *www.assist.org*. Contact a counselor for details and specific information on UC transfer requirements.

Transfer to Four-Year Colleges & Universities

California Residents
There are several ways to meet the University's minimum admission requirements for transfer students as described below. The path used by the student depends upon the degree to which the student has satisfied the UC's minimum eligibility requirements for freshmen at the time of graduation from high school. In all cases, applicants must have at least a C (2.0) average in all transferable coursework:

1. Students who were eligible for admission to the University when they graduated from high school—meaning they satisfied the Subject, Scholarship, and Examination requirements or were identified by the University during the senior year in high school as being eligible under the Eligibility in the Local Context (ELC) program—are eligible to transfer if they have a C (2.0) average in their transferable college coursework.

2. Students who met the Scholarship Requirement but did not satisfy the Subject Requirement must take transferable college courses in the missing subjects, earning a grade of C or better in each of these required courses, and earn an overall C (2.0) average in all transferable coursework to be eligible to transfer.

3. Students who were not eligible for admission to the University when they graduated from high school because they did not meet the Scholarship Requirement must:
   a. Complete 60 semester (90 quarter) units of transferable college credit with a grade-point average of at least 2.4, and;
   b. Complete the following course pattern, earning a grade of "C" or better in each course:
      • two transferable college courses (3 semester or 4-5 quarter units each) in English composition; and
      • one transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning; and
      • 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, the physical and biological sciences.

(Students who satisfy the IGETC prior to transferring to UC will satisfy Option 3b of the transfer admission requirements.)

Nonresidents
The minimum admission requirements for nonresident transfer applicants are very similar to those for residents. Please consult with the Admissions Office at one of the University campuses for details. In all cases, however, nonresidents must have a grade point average of 2.8 or higher in all transferable college coursework.

University of California (Breadth) General Education Requirements
The general education or breadth 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/breadth 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/breadth 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. Please see a counselor for more information. See page 54 for the specific Solano Community College courses that satisfy IGETC.

University of California, Berkeley (College of Letters and Science)
Transfer students with 60 or more semester units are expected to have satisfied the reading and composition breadth requirement, the quantitative reasoning breadth requirement, and the foreign language requirement of the College by the end of the spring term prior to transfer.

Transfer students who apply from California community colleges also have the option of fulfilling 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.

NOTE: In recent years, all major programs have turned away qualified applicants because of space limitations. Transfer applicants should be aware that admission to most majors in the College of Letters and Science is competitive and should endeavor to complete as much of the lower division preparation for their major as possible before transferring.

Contact a counselor and visit the ASSIST Web site at *www.assist.org* for details and information on specific courses to satisfy the College of Letters and Science breadth and major requirements.

University of California, Davis
There are three parts to preparing to transfer to UC Davis:
1. Minimum Transfer Admissions Eligibility: courses and grades that prepare a student to be minimally eligible to transfer, regardless of the major.
2. Major Preparation: courses that prepare a student to complete a major after transferring.
3. General Education (GE): courses that satisfy the GE requirement for graduation from UC Davis.

Students should place highest priority on achieving minimum transfer eligibility and on completing courses for their majors. 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.

Theses majors are: all majors in the College of Engineering, all majors in the Division of Biological Sciences, Biotechnology, Communications, Computer Science, Fermentation Science, International Relations, Landscape Architecture, Pre-Design, Pre-Managerial Economics, Psychology, and Viticulture and Enology.

After students have planned their courses for major preparation, they can think about General Education. GE is not required for admission; it is required for graduation from UC Davis. There are two ways to complete GE. Students pursuing majors with few courses for major preparation will want to consider completing the Intersegmental General Education Transfer Curriculum (IGETC). Students pursuing majors that have many preparatory courses should work on UC Davis GE rather than IGETC.

Students should work with a Solano Community College Counselor and a UC Davis Advisor to know how to prepare for their majors. This consultation also will help students decide which version of GE to choose.

CTE Degree & Certificate Programs

Workforce Development
Solano 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, one of the fastest growing counties in California.

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. For more details, refer to the "Transfer to Four-Year Colleges and Universities" section of this catalog. Equal access in vocational programs is provided for all students regardless of race, handicap, national origin, age or gender. Solano College vocational programs encourage women and men to enter non-traditional fields for their gender.

Short-Term Courses
Solano College offers 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.

Degree and Certificate Programs
Please see the Program Degrees and Certificates list on the following pages and see each major for more specific information.

Both an **Associate Degree** and a **Certificate of Achievement** are available in the following vocational programs:
- Accounting
- Administrative Assistant
- Aeronautics
- Automotive Body and Repair
- Automotive Technician
- Biotechnology Production Technician
- Business – General (Transfer)
- Business – Insurance Property & Casualty
- Computer and Information Science
- Cosmetology
- Criminal Justice, Corrections
- Criminal Justice, Forensics
- Criminal Justice, Law Enforcement
- Drafting Technician

- Survey Technician/Civil Drafting Technician
- Early Childhood Education
- Fire Technology
- Horticulture
- Human Services
- Interior Design
- Maintenance Technician
- Management
- Marketing
- Mechatronics
- Office Technology
- Professional Photography
- Real Estate
- Retail Management
- Small Business Management
- Water and Wastewater Technology
- Welding, Industrial Technician
- Welding Technician

Associate Degree only is offered in the following programs:
- Graphic Design and Illustration
- Journalism
- Nursing, Registered
- Sports Medicine/Fitness Science

Certificate of Achievement only is offered in the following program:
- Hazardous Substance & Waste Handling Technician
- Medical Front Office Clerk

Job Direct Certificates are awarded in the following fields to students who satisfactorily complete a fast-track program to prepare them for employment:
- Account Clerk
  (see Accounting major)
- Certified Nursing Assistant
  (see Nursing major)
- Computer Applications Specialist
  (see Computer & Information Science major)
- Database Specialist
  (see Computer & Information Science major)
- Drafting Technology
  (see Drafting major)
- Emergency Medical Technician I
  (see Nursing major)
- Fitness Professional
  (see Physical Education/Athletics major in Kinesiology)

CTE Degree & Certificate Programs

Insurance Specialist
   (see Business-Insurance: Property
   & Casualty major)
Landscape Worker
   (see Horticulture major)
Medical Office and Coding Specialist
Medical Front Office Clerk
   (see Office Technology major)
Web Developer
   (see Computer & Information Science major)
Web Programmer
   (see Computer & Information Science major)

Welding Equipment Operator
   (see Welding major)
Wildland Fire Technology
   (see Fire Technology major)

Counselors, faculty, and administrators are glad to answer any questions about these programs. Requirements for the above courses and programs are listed in the following section of this catalog.

Programs

Solano Community College offers a wide variety of programs and courses leading to the Associate in Arts or Associate in Science Degrees. These courses are also available to students who wish to develop personal and technical competence in an occupational area or in an academic discipline. Some programs offer specific areas of concentration within a degree.

A number of Certificate of Achievement programs are offered for students seeking specialized training in specific fields. All courses for the Certificate must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis. All credits earned in certificate programs may be counted toward the A.S./A.A. degree and in some instances credit for certificate courses may be transferable to four-year colleges. To be eligible for a certificate, at least six semester units in the field or a closely related subject must be completed at Solano Community College.

A number of Job-Direct certificate programs are also offered. These programs are 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.S./A.A. degree or the Certificate of Achievement.

Students planning to transfer to four-year institutions should consult the catalog of the college to which they intend to transfer. Also, they should meet with a counselor to coordinate their A.S./A.A. courses with transfer requirements. This is the best way to ensure that the program taken at Solano College satisfies lower division requirements of the transfer institution.

Requirements for all programs leading to the Associate of Arts or Science Degrees, Certificates of Achievement, and Job Direct Certificates appear on the following pages.

Guide to Catalog Course Listings

Individual courses are listed under the programs of the same name (i.e., Accounting courses under "Accounting" and Business courses under "Business") except for the following:

Courses	Listed Under
Adapted Physical Education	Kinesiology
Air Conditioning & Refrig (ACR)	Industrial Education
Astronomy (ASTR)	Science, General
Athletics (ATHL)	Kinesiology
Cinematography (CINA)	Film & Television
Education (EDUC)	Liberal Arts
Emergency Medical Technician (EMT)	Nursing
English as a Second Language (ESL)	English
French (FREN)	Foreign Languages
Geography (GEOG)	Science, General
Geology (GEOL)	Science, General
German (GRMN)	Foreign Languages
Health Education (HED)	Kinesiology
Humanities (HUMN)	Liberal Arts
Industrial Technology (IT)	Industrial Education
Insurance (BUS)	Business
Italian (ITAL)	Foreign Languages
Japanese (JAPN)	Foreign Languages
Latin (LATN)	Foreign Languages
Learning Resources (LR)	English

Courses	Listed Under
Learning Skills (LS)	Counseling
Maintenance Technician (MT)	Industrial Education
Physical Science (PHSC)	Science, General
Sociology (SOC)	Social Sciences
Spanish (SPAN)	Foreign Languages
Television (TV)	Film & Television
Tutoring (TUTR)	Counseling

Other Categories	Listed Under
Early Childhood Education Major	Child Development and Family Studies
Graphic Design & Illustration major	Art
Physical Education Major	Kinesiology
Reading courses	English
Sports Med./Fitness Sci major	Kinesiology

Program Degrees and Certificates

	Assoc Degree	Certificate
Accounting	•	•
Aeronautics		
Airframe Maintenance Technician	•	•
Powerplant Maintenance Technician	•	•
Anthropology for Transfer	•	
Art		
Art History	•	
Art History for Transfer	•	
Two Dimensional	•	
Three Dimensional	•	
Studio Arts for Transfer	•	
Graphic Design & Illustration	•	
Automotive		
Body & Repair	•	•
Technician	•	•
Biology	•	
Biotechnology, Applied		•
Biotechnology, Industrial	•	•
Business Administration for Transfer	•	
Business, General (Transfer)		•
Business-Insurance: Property & Casualty	•	•
Chemistry	•	
Communication Studies		
Communication Studies for Transfer	•	
Computer & Information Science		
Computer Programming	•	•
Microcomputer Applications	•	•
Web Development and Administration	•	•
Cosmetology	•	•
Criminal Justice		
Corrections	•	•
Law Enforcement	•	•
Computer Forensics	•	•
Criminal Justice for Transfer	•	
Drafting and Design Technician	•	•
Survey and Civil Drafting Technician	•	•
Early Childhood Education	•	•
Early Childhood Education for Transfer	•	
English	•	
English for Transfer	•	
Ethnic Studies	•	
Film and Television	•	
Fire Technology	•	•
Foreign Languages, General	•	
Foreign Languages, Individual		
French	•	
German	•	
Spanish	•	
Geography for Transfer	•	
History	•	
History for Transfer	•	
Horticulture and Plant Science	•	•
Human Services	•	•
Industrial Education		
Mechatronics	•	•

	Assoc Degree	Certificate
Interdisciplinary Studies (with Emphasis)		
Arts and Humanities	•	
Communication	•	
Science and Quantitative Reasoning	•	
Social Science	•	
Wellness and Self-Development	•	
International Relations	•	
Interior Design	•	•
Journalism	•	
Journalism for Transfer	•	
Kinesiology		
Physical Education	•	
Sports Medicine/Fitness Science (Transfer)	•	
Kinesiology for Transfer	•	
Management	•	•
Small Business Management	•	•
Retail Management	•	•
Marketing	•	•
Mathematics	•	
Mathematics for Transfer	•	
Music		
Instrumental	•	
Theory-Composition	•	
Vocal	•	
Nursing, Registered	•	
Office Technology		
Administrative Assistant	•	•
Medical Front Office Clerk		•
Medical Office and Coding Specialist	•	•
Photography, Professional	•	•
Physics	•	
Physics for Transfer	•	
Political Science	•	
Political Science for Transfer	•	
Psychology	•	
Psychology for Transfer	•	
Real Estate	•	•
Science, General	•	
Social Science	•	
Sociology	•	
Sociology for Transfer	•	
Theatre Arts	•	
Theatre Arts for Transfer	•	
University Studies - (With Emphasis)		
Arts and Humanities	•	
Communication	•	
Liberal Studies with Emphasis on Education	•	
Science and Quantitative Reasoning	•	
Social Science	•	
Water & Wastewater Technology	•	•
Welding		
Industrial Technician	•	•
Technician	•	•

* Communications Studies formerly Speech; Child Development and Family Studies formerly Human Development and Early Childhood Education; Kinesiology formerly Physical Education

Announcement of Courses & Course Numbers

COURSES

Credit Courses: Courses numbered 001-399 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 Office of Admissions and Records or see the Schedule of Classes for current offerings.

Community Education Courses: The College offers a variety of Community Education courses and workshops that are designed to meet the needs of community residents and businesses. These courses are fee-based, not for credit courses that do not receive any tax support. No student records are kept by the Office of Admissions and Records. Community Education courses are not listed in this Catalog but in a separate bulletin, *Vistas*, published each semester (fall and spring). Contact the Community Education Office for course schedules and details about registration at (707) 864-7115 and online: *www.solano.edu/vistas*.

CO/PREREQUISITES AND ADVISORIES

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

Co-requisite details: There are two types of co-requisites. 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 co-requisites are listed as such 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 co-requisite is blocked until the requirements of the co-requisite are satisfied.

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.

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.

Co/Prerequisites. Course co-requisites and prerequisites ensure that the student has the minimum level of knowledge and/or skills to be successful in the specific course or program. The skills, concepts, and proficiencies learned in the prerequisite are not taught in the subsequent course. Co-requisite and prerequisite information for a course, if any, appears in the "Prerequisite" area of 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, he/she will be **dropped** automatically from the subsequent course.

Advisories. 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. Solano College has established recommended minimum English and math standards for Associate-Degree level courses across the disciplines to advise students of the levels of writing, reading, and math skills they should have in order to have the most beneficial learning experience. Advisory information for a course appears in the "Course Advisory" area of the catalog description. The recommended **minimum** skill level in English in an Associate-Degree level course (SCC minimum English standard) is eligibility for enrollment in one English course one level below English 001. The recommended **minimum** skill level in mathematics in an Associate-Degree level course (SCC minimum Math standard) is eligibility for enrollment in elementary algebra (Math 330).

Verification of a Co/Prerequisite. 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 College must submit documentation to verify this completion.

Announcement of Courses & Course Numbers

This documentation (unofficial or official transcript or report card) must be presented to a counselor, faculty advisor, or division dean or Office of Admissions or Records.

Challenging a Co/Prerequisite. A student has the right to challenge a course co/prerequisite based on the following grounds: the co/prerequisite has not been established in accordance with the District process for establishing co/prerequisites; the co/prerequisite is either unlawfully discriminatory or is being applied in an unlawfully discriminatory manner; the prerequisite 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 Individualize Education Plan (IEP); or the student has the knowledge or ability to succeed in the course or program despite not meeting the co/prerequisite. 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/Co-requisite," available at the Office of Admissions and Records. 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.

COURSE NUMBERING SYSTEM

The following numbering system indicates transferability, credit or noncredit status and other related information. For specific transfer information, students should consult a counselor and refer to the catalog of the prospective transfer institutions.

COURSE NUMBERS

001-049   Qualify for the A.A./A.S. Degree; transfer to the University of California system and the California State Universities.

050-099   Qualify for the A.A./A.S. Degree and transfer to the California State Universities.

100-199   Qualify for the A.A./A.S. Degree but, generally, do not transfer to four-year institutions. Some courses may be used to meet requirements in certain majors at some 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 English 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.

500-599   Noncredit courses.

600-799   Community Service courses. These courses are not for credit and usually charge a fee.

Some sequentially-numbered courses continue through two or more semesters and must often be taken in sequence. Check course prerequisites for appropriate course sequence.

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.

Course Families

The following courses are considered active participatory courses related in content according to Title 5 §55000. Active participatory courses that are closely related in content are grouped into families based on Title 5 guidelines. These courses are not repeatable, and students may enroll up to four times within an active participatory course family. Please see the Solano Community College online catalog for the most recent listing of active participatory course families – *www.solano.edu*.

Art Course Families

Life Drawing
ART 004 Life Drawing
ART 005 Life Drawing

Drawing
ART 014 Introduction to Drawing
ART 015 Intermediate Drawing

Professional Art Practices
ART 077A Practices for Artists
ART 077B Art on Site

Art Portfolio Development
ART 076A Portfolio Development – Artistic Inquiry
ART 076B Portfolio Development: Documentation

Mural Arts
ART 030A Architectural Ceramics, Murals and Tiles
ART 030B Mural Painting

Ceramic Hand-Building
ART 023 Introduction to Ceramics: Hand Building
ART 024 Intermediate Ceramics: Hand Building
ART 025 Ceramic Design and Decoration: Hand Building Methods

Ceramic Wheel-Throwing
ART 026 Introduction to Ceramics: Wheel Throwing Techniques
ART 027 Intermediate Ceramics: Wheel Throwing Techniques
ART 028 Ceramics Design: Wheel Throwing Techniques

Sculpture
ART 031 Sculpture
ART 033 Intermediate Sculpture

Acrylic and Oil Painting
ART 017 Intermediate Painting: Acrylic and Oil
ART 018 Advanced Intermediate Painting: Acrylic and Oil

Watercolor
ART 021 Watercolor
ART 022 Watercolor

Intaglio (Etching and Engraving)
ART 039 Etching and Engraving: Line Techniques
ART 040 Etching and Engraving: Tone
ART 041 Etching and Engraving Color

Illustration
ART 054 Illustration I
ART 055 Illustration II

Graphic Design
ART 056 Graphic Design I
ART 057 Graphic Design II

Music Course Families

Beginning Voice
MUSC 035A Beginning Voice I
MUSC 035B Beginning Voice II

Intermediate Voice
MUSC 036A Intermediate Voice I
MUSC 036B Intermediate Voice II

Guitar
MUSC 038 Class Lessons in Beginning Guitar
MUSC 039 Class Lessons in Intermediate Guitar

Jazz Piano
MUSC 042A Jazz and Pop Piano
MUSC 042B Jazz and Pop Piano

Beginning Piano Family
MUSC 027 Elementary Piano, Part I
MUSC 028 Elementary Piano, Part II

Intermediate Piano Family
MUSC 029 Intermediate Piano, Part I
MUSC 030 Intermediate Piano, Part II

Instrumental Group Study
MUSC 031 Class Lessons in Woodwinds
MUSC 032 Class Lessons in Brass
MUSC 033 Class Lessons in Strings
MUSC 034 Class Lessons in Percussion

Kinesiology Course Families

Health Education
HED 002 Health Education
HED 003 Women's Health Issues

Adapted Kinesiology/ Physical Education
KINE 001A Adapted Aquatics
KINE 001D Adapted Weight Training
KINE 091 Adapted Back Rehab

Aquatics
KINE 002A Beginning Swimming
KINE 002B Intermediate Swimming
KINE 002D Swim for Fitness
KINE 002E Aqua Aerobics

Combatives
KINE 003A Beginning Self Defense
KINE 003D Beginning Judo
KINE 003E Intermediate Judo
KINE 006G Tai Chi

Course Families

Cardio/Respiratory Fitness
KINE 005C Fitness for Life
KINE 005E Cardio Conditioning
KINE 005P Step Aerobics
KINE 006A Cardio Kickboxing

Resistance Training
KINE 005D Circuit Training
KINE 005J Beginning Body
   Conditioning
KINE 005K Intermediate Body
   Conditioning
KINE 005M Beginning Weight
   Training
KINE 005N Intermediate Weight
   Training
KINE 078 Fit Ball Training

Metabolic Fitness
KINE 005Q Elite Fitness Training
KINE 005R Core Conditioning
   Training
KINE 083 Fire Candidate Physical
   Fitness

Individual Sports
KINE 007A Beginning Bowling
KINE 007F Beginning Archery
KINE 008A Beginning Tennis
KINE 008B Intermediate Tennis
KINE 008E Beginning Badminton
KINE 008F Intermediate Badminton

Cycling
KINE 007B Beginning Road Bicycling
KINE 007C Beginning Mountain
   Biking

Team Sports
KINE 009A Beginning Basketball
KINE 009B Indoor/Outdoor Soccer
KINE 009C Intermediate Soccer
KINE 009E Intermediate Basketball
KINE 009F Beginning Baseball
KINE 009G Softball
KINE 009H Beginning Volleyball
KINE 009P Intermediate Volleyball

Athletics Theory
KINE 020D Baseball Theory and
   Practice I
KINE 020E Baseball Theory
   and Practice II
KINE 020F Football Theory
   and Practice I
KINE 020G Football Theory
   and Practice II
KINE 020J Softball Theory
   and Practice II
KINE 020M Volleyball Theory
   and Practice I
KINE 020N Volleyball Theory
   and Practice II
KINE 020P Softball Theory
   and Practice I
KINE 020Q Soccer Theory
   and Practice I
KINE 020R Soccer Theory
   and Practice II
KINE 020X Basketball Theory
   and Analyses I
KINE 020Y Basketball Theory
   and Analyses II

Yoga
KINE 006E Fundamentals of Yoga
KINE 006F Intermediate Yoga

Pilates
KINE 006C Pilates for Fitness

Dance/Kinesiology

Jazz Dance
KINE 004D Jazz Dance Technique
KINE 004H Beginning Jazz Dance
KINE 004P Intermediate Jazz Dance

Tap Dance
KINE 004B Beginning Tap Dance
KINE 004C Intermediate Tap Dance

Ballet
KINE 004K Beginning Ballet
KINE 004M Intermediate Ballet

Modern Dance
KINE 004A Beginning
   Contemporary Modern Dance

Hip Hop
KINE 004F Beginning Hip-Hop
   Dance

Ballroom
KINE 004J Beginning Ballroom
   Dance
KINE 004T Intermediate Ballroom
   Dance

Swing
KINE 004N Beginning Swing Dance
KINE 004S Intermediate Swing
   Dance

Dance Production
KINE 004E Dance Production
KINE 004G Dance Choreography

Course Offering List

In order too assist students in planning their schedules, the courses listed below are typically offered in the semesters indicated. This list is subject to change. Please visit the Solano Community College website *www.solano.edu*; go to MySolano and click on Schedule.

Subj	Num	FALL	SPRING	Subj	Num	FALL	SPRING
Accounting				ART	027	X	X
ACCT	001	X	X	ART	028	X	X
ACCT	002	X	X	ART	029	X	X
ACCT	050	X	X	ART	031'	X	
ACCT	176	X	X	ART	032		X
ACCT	177		X	ART	033	X	X
ACCT	183		X	ART	034		X
Aeronautics				ART	035A	X	
AERO	102	X		ART	036		X
AERO	103		X	ART	037		X
AERO	106	X		ART	038	X	
AERO	107		X	ART	039		X
AERO	118		X	ART	041		X
AERO	119		X	ART	043	X	
AERO	150	X	X	ART	052	X	X
AERO	151	X	X	ART	054	X	X
Anthropology				ART	055	X	X
ANTH	001	X	X	ART	056	X	X
ANTH	001L	X	X	ART	057	X	X
ANTH	002	X	X	ART	076A	X	
ANTH	007	X		ART	076B		X
Art				ART	077A	X	
ART	001	X	X	ART	077B	X	
ART	002	X	X	**Automotive**			
ART	003A	X		AUTB	100	X	X
ART	003B		X	AUTB	101	X	X
ART	004	X		AUTB	102	X	X
ART	005	X		AUTB	103	X	X
ART	006	X	X	ATEC	070	X	X
ART	007	X	X	ATEC	130	X	
ART	008	X		ATEC	131		X
ART	011	X		ATEC	132	X	
ART	012	X		ATEC	133		X
ART	014	X	X	ATEC	134		X
ART	015		X	ATEC	136		X
ART	016	X	X	ATEC	138	X	
ART	017	X	X	ATEC	139	X	
ART	018	X	X	ATEC	140	X	
ART	019		X	**Biology**			
ART	020	X		BIO	002	X	X
ART	021	X		BIO	003	X	X
ART	022	X		BIO	004	X	X
ART	023	X	X	BIO	005	X	X
ART	024	X	X	BIO	012	X	X
ART	025	X	X	BIO	012L	X	X
ART	026	X	X	BIO	014	X	X

Course Offering List

Subj	Num	FALL	SPRING
BIO	015	X	X
BIO	016	X	X
BIO	016L	X	X
BIO	018	X	X
BIO	019	X	X
BIO	047	X	X
BIO	049	X	X
BIO	099	X	X

Biotechnology

Subj	Num	FALL	SPRING
BIOT	051	X	
BIOT	052		X
BIOT	062	X	
BIOT	063		X
BIOT	160		X

Business

Subj	Num	FALL	SPRING
BUS	005	X	X
BUS	018	X	X
BUS	092	X	X
BUS	099	X	X
BUS	100	X	X
BUS	181	X	X
BUS	182	X	X
BUS	060	X	

Child Development and Family Studies

Subj	Num	FALL	SPRING
CDFS	038	X	X
CDFS	040	X	X
CDFS	050	X	X
CDFS	052	X	
CDFS	053		X
CDFS	054	X	
CDFS	062	X	X
CDFS	063	X	X
CDFS	064		X
CDFS	065	X	X
CDFS	066	X	X
CDFS	070	X	X
CDFS	071		X
CDFS	072	X	
CDFS	073	X	
CDFS	074		X
CDFS	075		X
CDFS	076	X	
CDFS	080		X
CDFS	081		X
CDFS	082		X

Chemistry

Subj	Num	FALL	SPRING
CHEM	001	X	X
CHEM	003	X	X
CHEM	004	X	X
CHEM	010	X	X
CHEM	011	X	X
CHEM	051	X	X
CHEM	160	X	X

Computer Information Science

Subj	Num	FALL	SPRING
CIS	001	X	X
CIS	015	X	X
CIS	022	X	X
CIS	023		X
CIS	035	X	
CIS	050	X	X
CIS	052	X	X
CIS	055	X	X
CIS	060		X
CIS	061	X	X
CIS	066	X	X
CIS	070	X	X
CIS	073	X	X
CIS	078	X	X
CIS	080	X	
CIS	083	X	
CIS	085	X	
CIS	089	X	X
CIS	090	X	X
CIS	091	X	X
CIS	093	X	X

Criminal Justice

Subj	Num	FALL	SPRING
CJ	001	X	X
CJ	002	X	X
CJ	011	X	X
CJ	051	X	X
CJ	052	X	X
CJ	053	X	X
CJ	057	X	X
CJ	058	X	X
CJ	059	X	X
CJ	060	X	X
CJ	062		X
CJ	064		X
CJ	090	X	X
CJ	091	X	X

Communication Studies

Subj	Num	FALL	SPRING
COMM	001	X	
COMM	002	X	
COMM	006		X
COMM	010	X	
COMM	012	X	
COMM	015		X
COMM	050	X	X

Course Offering List

Subj	Num		FALL	SPRING		Subj	Num		FALL	SPRING
COMM	060			X		ENGL	355		X	X
COMM	075		X	X		ENGL	355L		X	X
Cosmetology						ENGL	359		X	X
COSM	100		X	X		ENGL	360		X	X
COSM	101		X	X		ENGL	370		X	X
COSM	102		X	X		ENGL	380		X	X
COSM	103A		X	X		**Engineering**				
COSM	103B		X	X		ENGR	001		X	
Drafting						ENGR	017			X
DRFT	045		X	X		ENGR	030		X	
DRFT	046		X			ENGR	045		X	
DRFT	050			X		**Fire Technology**				
DRFT	055			X		FIRE	050		X	X
DRFT	057			X		FIRE	051		X	X
DRFT	075		X			FIRE	140			X
DRFT	079		X	X		**History**				
DRFT	125			X		HIST	002		X	X
DRFT	140			X		HIST	003		X	X
Economics						HIST	004		X	X
ECON	001		X	X		HIST	005		X	X
ECON	002		X	X		HIST	010		X	
ECON	010		X			HIST	017		X	X
English						HIST	018		X	X
ENGL	001		X	X		HIST	028		X	
ENGL	002		X	X		HIST	029			X
ENGL	004		X	X		HIST	031			X
ENGL	006		X	X		HIST	037		X	X
ENGL	007		X	X		**Horticulture**				
ENGL	010		X	X		HORT	006		X	
ENGL	018		X			HORT	030		X	
ENGL	021		X			HORT	031		X	
ENGL	023			X		HORT	050		X	X
ENGL	024			X		HORT	055			X
ENGL	030			X		HORT	056			X
ENGL	031		X			HORT	070		X	
ENGL	036			X		HORT	071		X	
ENGL	038			X		HORT	301B		X	X
ENGL	040		X			HORT	301C		X	X
ENGL	041		X			HORT	301D		X	X
ENGL	044			X		HORT	301E		X	X
ENGL	046		X	X		**Human Services**				
ENGL	047		X	X		HS	051		X	X
ENGL	062		X	X		HS	053		X	X
ENGL	310A		X	X		HS	054		X	X
ENGL	320		X	X		HS	055		X	X
ENGL	331		X	X		**Industrial Education**				
ENGL	350		X	X		ACR	100		X	
ENGL	350L		X	X		ACR	101			X
ENGL	353		X	X		IT	050		X	

Course Offering List

Subj	Num		FALL	SPRING
IT	101			X
IT	140		X	
IT	151		X	X
MT	120		X	
MT	122			X
MT	130		X	
MT	132			X
MT	140			X
MT	142		X	
MT	162		X	
MT	164			X
International Relations				
IR	001			X
Kinesiology				
ATHL	001		X	
ATHL	002A		X	
ATHL	002B			X
ATHL	003			X
ATHL	004		X	
ATHL	010			X
ATHL	015			X
ATHL	016A		X	
ATHL	016B			X
KINE	004E			X
Mathematics				
MATH	002		X	X
MATH	004		X	X
MATH	011		X	X
MATH	012		X	X
MATH	020		X	X
MATH	021		X	X
MATH	022		X	X
MATH	023		X	X
MATH	030		X	X
MATH	031		X	X
MATH	040		X	X
MATH	051		X	X
MATH	103		X	X
MATH	104		X	X
MATH	112		X	X
MATH	114			X
MATH	310		X	X
MATH	320		X	X
MATH	330		X	X
MATH	330A		X	X
MATH	330B		X	X

Subj	Num		FALL	SPRING
Management				
MGMT	050		X	X
MGMT	055		X	X
MGMT	193		X	
Marketing				
MKT	171		X	
MKT	172			X
MKT	173			X
MKT	174		X	X
Nursing				
NURS	050A		X	
NURS	050B		X	
NURS	054			X
NURS	055			X
NURS	058A		X	
NURS	058B		X	
NURS	058C			X
NURS	058D			X
NURS	060		X	
NURS	061		X	
NURS	063			X
NURS	064			X
Occupational Education				
OCED	090		X	X
OCED	091		X	X
OCED	101		X	X
Office Technology				
OT	054A		X	X
OT	054B		X	X
OT	055A		X	X
OT	055B		X	X
OT	056			X
OT	060		X	X
OT	061		X	X
OT	100		X	X
OT	101		X	X
OT	151			X
OT	162		X	X
Photography				
PHOT	030		X	X
PHOT	031		X	X
PHOT	035		X	X
PHOT	051		X	X
PHOT	070		X	X
PHOT	071		X	X
PHOT	151		X	X

Course Offering List

Subj	Num		FALL	SPRING
Physics				
PHYS	002		X	X
PHYS	004		X	X
PHYS	006'		X	X
PHYS	007		X	
PHYS	008			X
PHYS	010		X	X
Political Science				
PLSC	001		X	X
PLSC	002			X
PLSC	003		X	
PLSC	004			X
PLSC	005			X
PLSC	006		X	
PLSC	016		X	
PLSC	049		X	X
PLSC	050		X	X
Psychology				
PSYC	001		X	X
PSYC	002		X	X
PSYC	004		X	X
PSYC	005		X	X
PSYC	006		X	
PSYC	007		X	
PSYC	010		X	X
PSYC	020		X	X
PSYC	030			X
PSYC	034		X	X
PSYC	040		X	
Real Estate				
RE	164			X
RE	172		X	
RE	173			X
Science, General				
ASTR	010		X	X
ASTR	020		X	X
ASTR	030		X	X
ASTR	030			X
GEOG	001		X	X
GEOG	001L		X	X
GEOG	002			X
GEOG	004		X	
GEOG	006			X
GEOG	010		X	
GEOL	001		X	X
GEOL	002		X	X
GEOL	005		X	
GEOL	049		X	X
PHSC	012		X	X

Subj	Num		FALL	SPRING
Sociology				
SOC	001		X	X
SOC	002		X	X
SOC	023			X
SOC	040		X	
SOC	045		X	
SOC	075			X
Social Sciences				
SOCS	022		X	X
SOCS	030		X	X
Theatre Arts				
THEA	050			X
Water and Wastewater Technology				
WATR	100		X	
WATR	101			X
WATR	103		X	
WATR	104		X	
WATR	105			X
WATR	106			X
WATR	107		X	
WATR	108			X
WATR	120		X	
WATR	121			X
Welding				
WELD	100		X	X
WELD	101		X	X
WELD	102		X	X
WELD	103		X	X
WELD	120		X	
WELD	121			X
WELD	122			X
WELD	123		X	
WELD	124			X
WELD	125		X	
WELD	500		X	X

Course Identification Numbering System (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system that is different from the course numbers assigned by individual California Community Colleges. A C-ID Designator next to a course means that the course is comparable in content and scope to a similar course offered by participating California colleges and universities. Thus, if a catalog lists a C-ID Designator for a course, students can be assured that the course will be accepted at another California Community College that offers a course with the same C-ID Designator.

The C-ID Numbering System is particulary useful for students attending more than one California Community College since C-ID Designators are often applied to courses students need to prepare for transfer.

Below is the list of Solano Community College courses that currently have a C-ID designator.

Solano Community College		C-ID Designator
Anthropology		
ANTH 007	Archaeology	ANTH 150
Art		
ART 002	Art History	ARTH 120
ART 003A	Arts of Asia	ARTH 130
ART 003B	Arts of Africa, Oceana, and the Americas	ARTH 140
ART 006	Design Principles in 2-Dimensions	ARTS 100
ART 007	Design-Color	ARTS 270
ART 008	Design Principles in 3-Dimensions	ARTS 101
ART 015	Intermediate Drawing	ARTS 205
Biology		
BIO 004	Human Anatomy	BIOL 110B
Business		
BUS 018	Legal Environment of Business	BUS 120
Child Development and Family Studies		
CDFS 038	Child Growth and Development	CDEV 100
CDFS 050	Child, Family and Community	CDEV 110
CDFS 053	Teaching in a Diverse Society	ECE 230
CDFS 054	Child Health, Safety, and Nutrition	ECE 220
CDFS 062	Introduction to Early Childhood Education: Principles and Practices	ECE 120
CDFS 063	Introduction to Curriculum	ECE 130
CDFS 064	Observation and Assessment	ECE 200
CDFS 065	Early Childhood Education	ECE 210
Computer Information Science		
CIS 021	Discrete Structures for Computer Science	COMP 152
CIS 022	Introduction to Programming	COMP 122

Solano Community College		C-ID Designator
Criminal Justice		
CJ 001	Introduction to Criminal Justice	AJ 110
CJ 002	Concepts of Criminal Law	AJ 120
CJ 011	Community Relations	AJ 160
CJ 051	Criminal Investigation	AJ 140
CJ 053	Legal Aspects of Evidence	AJ 124
CJ 056	Juvenile Procedures	AJ 220
Communication Studies		
COMM 002	Fundamentals of Persuasive Speaking	COMM 190
COMM 012	Intercultural Communication	COMM 150
COMM 015	Oral Interpretation of Literature	COMM 170
COMM 050	Forensics/Speech Workshop	COMM 160B
Economics		
ECON 001	Principles of Economics (Macroeconomics)	ECON 202
ECON 002	Principles of Economics (Microeconomics)	ECON 201
English		
ENGL 002	Critical Thinking and Writing About Literature	ENGL 110
ENGL 006	Creative Writing 1	ENGL 200
ENGL 030	Survey of American Literature I	ENGL 130
ENGL 031	Survey of American Literature II	ENGL 135
ENGL 040	Survey of English Literature I	ENGL 160
ENGL 041	Survey of English Literature II	ENGL 165
Geography		
GEOG 001	Physical Geography	GEOG 110
GEOG 002	Cultural Geography	GEOG 120
GEOG 004	World Geography	GEOG 125
GEOG 006	California Geogrpahy	GEOG 140
GEOG 010	Introduction to Geographic Information Systems	GEOG 155

Course Identification Numbering System (C-ID)

Solano Community College		C-ID Designator
Geology		
GEOL 001	Physical Geology	GEOL 100
GEOL 002	Geology Laboratory	GEOL 100L
GEOL 010	Introduction to Geographic Information Systems	GEOG 155
History		
HIST 003	World History Since 1500	HIST 160
HIST 004	History of Western Civilization to 1500	HIST 170
HIST 005	History of Western Civilization Since 1500	HIST 180
HIST 017	History of the United States to 1877	HIST 130
HIST 018	History of the United States from 1865	HIST 140
Journalism		
JOUR 001	Newswriting and Reporting	JOUR 110
JOUR 011	Introduction to Mass Communication	JOUR 100
JOUR 060	Publications Laboratory	JOUR 130
JOUR 061	Publications Laboratory II	JOUR 131
Kinesiology		
KINE 020S	Advanced First Aid and Emergency Care	KIN 101
Mathematics		
MATH 021	Analytic Geometry and Calculus II	MATH 220
MATH 023	Differential Equations	MATH 240
MATH 040	Introduction to Linear Algebra	MATH 250
Music		
MUSC 001	Theory 1	MUSC 120
MUSC 002	Theory 2	MUS 130
MUSC 003	Theory 3	MUSC 140
MUSC 004	Theory 4	MUS 150
MUSC 005	Music Fundamentals	MUS 110
MUSC 009	Wind Ensemble	MUS 180
MUSC 010	Concert Band	MUS 180
MUSC 011	Jazz Ensemble	MUS 180
MUSC 015	Stage Band	MUS 180
MUSC 016	Symphony Orchestra	MUS 180
MUSC 017	Chamber Orchestra	MUS 180
MUSC 020	Choir	MUS 180
MUSC 024	Master Works Chorale	MUS 180
MUSC 025	Chamber Choir	MUS 180

Solano Community College		C-ID Designator
Photography		
PHOT 056	Photojournalism & Documentary Photography	JOUR 160
Physics		
PHYS 002	General Physics (Non-calculus)	PHYS 105
PHYS 004	General Physics (Non-calculus)	PHYS 110
PHYS 006	Physics for Science and Engineering	PHYS 205
PHYS 007	Physics for Science and Engineering	PHYS 210
PHYS 008	Physics for Science and Engineering	PHYS 215
Political Science		
PLSC 001	Introduction to American Government and Politics	POLS 110
PLSC 002	Introduction to Comparative Government	POLS 130
PLSC 003	Introduction to International Politics	POLS 140
PLSC 004	Introduction to Political Science	POLS 150
PLSC 006	Introduction to Political Philosophy	POLS 120
Psychology		
PSYC 001	Introduction to Psychology	PSY 110
PSYC 002	Biological Psychology	PSY 150
PSYC 004	Research Methods in Behavioral Science	PSY 200
Sociology		
SOC 001	Introduction to Sociology	SOCI 110
Spanish		
SPAN 001	First Semester Spanish	SPAN 100
SPAN 001S	Spanish for Spanish Speakers 1	SPAN 220
SPAN 002	Second Semester Spanish	SPAN 110
SPAN 002S	Spanish for Spanish Speakers 2	SPAN 230

Course Identification Numbering System (C-ID)

Theatre Arts

THEA 001	Acting 1	THTR 151
THEA 002	Acting 2	THTR 152
THEA 003	Stagecraft	THTR 171
THEA 006	Introduction to Theatre	THTR 111
THEA 008	State Make-Up	THTR 175
THEA 009	Script Analysis	THTR 114
THEA 020	Introduction to State Lighting	THTR 173
THEA 021	Introduction to Theatre Design	THTR 172
THEA 024A	Rehearsal and Performance in Production - Comedy	THTR 191
THEA 024B	Rehearsal and Performance in Production - Drama	THTR 191
THEA 024C	Rehearsal and Performance in Production - Classical	THTR 191
THEA 024D	Rehearsal and Performance in Production - Musical	THTR 191
THEA 032A	Fundamentals of Costume Design - Comedy	THTR 174
THEA 032B	Fundamentals of Costume Design - Drama	THTR 174
THEA 047A	Technical Theatre in Production - Comedy	THTR 192
THEA 047B	Technical Theatre in Production - Drama	THTR 192
THEA 047C	Technical Theatre in Production - Classical	THTR 192
THEA 047D	Technical Theatre in Production - Musical	THTR 192

NOTE: This list will change periodically.
Consult a counselor or visit *http://www.c-id.net* or *http://www.assist.org* for the most current list of Solano Community College courses with C-ID agreement.

Accounting

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.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion of the 29-unit major with a grade of C (2.0) or better in each course. The Associate in Science Degree can be obtained by completing a total of 60 units, including the required courses in the major, the general education requirements, and electives. 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 earn the Accounting Associate Degree or transfer with a focus on accounting 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 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
    Total Units 29

Recommended Electives:
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

This is a Gainful Employment Program. For additional information, please visit *http://www.solano.edu/gainful_employment/* and select "Accounting."

Account Clerk Job-Direct Certificate

All courses in the major must be completed with a grade of C or better

REQUIRED COURSES . . . . Units
ACCT 001 Principals of Accounting-Financial. 4
BUS 100 Work Readiness 1.5
CIS 073 Microsoft Excel 3
OT 162 Ten-Key. 1
    Total Units 8.5

Accounting

ACCT 001   **4.0 Units**
Principles Of Accounting—Financial
Course Advisory: SCC minimum English and Math standards. A study and analysis of accounting as an information system, its importance and use by external uses such as investors, creditors, and other making decisions. The course covers of the accounting cycle, application of the generally accepted accounting principles, financial reporting, and statement analysis. The course will include 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. *Four hours lecture.*

ACCT 002   **4.0 Units**
Principles Of Accounting—Managerial
Prerequisite: ACCT 001 with a minimum grade of C or P. Course Advisory: Working knowledge of Excel helpful. A study and analysis of how managers use accounting information in decision-making, planing, 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. *Four hours lecture.*

ACCT 050   **3.0 Units**
Computer Accounting
Prerequisite: Acct 001. Course Advisory: SCC minimum English and Math standards. 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. *Three hours lecture.*

ACCT 176   **3.0 Units**
Intermediate Accounting
Prerequisite: ACCT 002 with minimum grade of C or P. Course Advisory: Working knowledge of Excel helpful. 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 professional accounting career. *Three hours lecture.*

ACCT 177   **3.0 Units**
Principles of Cost Accounting
Prerequisite: ACCT 002 with a minimum grade of C or P. A comprehensive study and analysis of manufacturing costs as they apply to planning, controlling, and determining unit costs, inventory valuation, and income. *Three hours lecture.*

ACCT 180   **3.0 Units**
Introduction To Accounting
Course Advisory: SCC minimum English and Math standards. 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. *Three hours lecture.*

ACCT 183   **3.0 Units**
Principles Of Income Tax
Course Advisory: SCC minimum English and Math standards. A comprehensive study and analysis of the principles of federal income tax applied to individual, partnership, informational, and corporate tax returns. *Three hours lecture.*

Aeronautics

Airframe Maintenance Technician

Program Description
Practical and theoretical knowledge in basic maintenance techniques, plus the special requirements of either airframe or 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 or powerplant license.

Certificate of Achievement and Associate in Science Degree
A Certificate of Achievement can be obtained upon completion of one of the 41-unit majors listed below. An Associate in Science Degree can be obtained upon completion of the units required for the major in either Airframe or Powerplant or Airframe and Powerplant and general education requirements.

The Federal Aviation Administration (FAA) requires 1150 hours (four full semesters) of instruction to complete the Airframe or Powerplant curriculum. 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 completes the Airframe Maintenance Technician Certificate of Achievement/Associate Degree will be able to:
1. Demonstrate proficient, entry-level aviation maintenance skills in 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 an FAA, Airframe and Powerplant License upon completion of the Federal Aviation Administration (FAA) knowledge, oral, practical and written examination in general, airframe, and powerplant subjects.

REQUIRED COURSES . . . . Units
AERO 055 Aviation Maintenance
       Technician General I 10
AERO 102 Airframe Maintenance I 10
AERO 103 Aviation Maintenance
       Technician General II 10
AERO 105 Airframe Maintenance II 10
AERO 118 FAA Airframe Test Review
       & Qualification. 1
   Total Units 41

Recommended Electives:
AERO 150 FAA Special Projects-Airframe Enhancement
OCED 070 Occupational Soft Skills
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

To obtain the combination Airframe & Powerplant Maintenance Technician certificate or degree (an additional 750 hours, 2 semesters), also complete the three courses listed below: . . . . Units
AERO 106 Powerplant Maintenance I. 10
AERO 107 Powerplant Maintenance II 10
AERO 119 FAA Powerplant Test Review
       & Qualification. 1
   Total Units 21

These programs are Gainful Employment Programs. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Aeronautics Airframe Maintenance Technician,"
"Aeronautics Powerplant Maintenance Technician," or Aeronautics Airframe & Powerplant Maintenance Technician."

Aeronautics

Powerplant Maintenance Technician

Program Description
Practical and theoretical knowledge in basic maintenance techniques, plus the special requirements of either airframe or 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 or powerplant license.

Certificate of Achievement and Associate in Science Degree
A Certificate of Achievement can be obtained upon completion of one of the 41-unit majors listed below. An Associate in Science Degree can be obtained upon completion of the units required for the major in either Airframe or Powerplant or Airframe and Powerplant and general education requirements.

The Federal Aviation Administration (FAA) requires 1150 hours (four full semesters) of instruction to complete the Airframe or Powerplant curriculum. 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 Powerplant Maintenance Technician Certificate of Achievement/ Associate Degree will be able to:
1. Demonstrate proficient, entry-level aviation maintenance skills in 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 an FAA, Airframe and Powerplant License upon completion of the Federal Aviation Administration (FAA) knowledge, oral, practical and written examination in general, airframe, and powerplant subjects.

REQUIRED COURSES . . . . **Units**
AERO 055 Aviation Maintenance Technician
   General I 10
AERO 103 Aviation Maintenance Technician
   General II 10
AERO 106 Powerplant Maintenance I. 10
AERO 107 Powerplant Maintenance II 10
AERO 119 FAA Powerplant Test Review
   & Qualification. 1
 Total Units **41**

To obtain the combination Airframe & Powerplant Maintenance Technician certificate or degree (an additional 750 hours, 2 semesters), also complete the three courses listed below: . . . . **Units**
AERO 102 Airframe Maintenance I 10
AERO 105 Airframe Maintenance II 10
AERO 118 FAA Airframe Test Review
   & Qualification. 1
 Total Units **21**

Recommended Electives :
AERO 150 FAA Special Projects-Airframe Enhancement
OCED 070 Occupational Soft Skills
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

Aeronautics

AERO   055   10.0 Units
Aviation Maintenance Technician General I
Course Advisory: SCC minimum English and Math standards. 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. Use of hand tools and power equipment, aircraft drawings, cleaning, corrosion control; and the processes used by the manufacturers for aircraft construction. *Five hours lecture, fifteen hours lab.*

AERO   102   10.0 Units
Airframe Maintenance I
Course Advisory: SCC minimum English standard. Presents the application of fundamental methods, techniques and practices used in aircraft inspection, maintenance and repair. Includes shop safety, wood structures, fabric covering, finishes, composite structures, plastics, sheet metal structures, welding, assembly and rigging, and airframe inspection. *Five hours lecture, fifteen hours lab.*

AERO   103   10.0 Units
Aviation Maintenance Technician General II
Course Advisory: SCC minimum English standard. A study of fluid control systems and components with emphasis on design, maintainability, testing and repair. Includes hydraulic fluids, lines and fittings, inspection, checking, servicing and testing of pneumatic and hydraulic systems. Presents theory and application of direct and alternating current as related to air electrical components and systems. *Five hours lecture, fifteen hours lab.*

AERO   105   10.0 Units
Airframe Maintenance II
Course Advisory: SCC minimum English standard. A detailed study of aircraft systems, their fabrication, maintenance, and repair. Includes landing gear, hydraulic, pneumatic, atmosphere control, instruments, communication, navigation, fuel, position, warning, rain and fire protection systems. *Five hours lecture, fifteen hours lab.*

AERO   106   10.0 Units
Powerplant Maintenance I
Course Advisory: SCC minimum English standard. Presents a study of the theory, operation, maintenance and repair of reciprocating engines and accessories. *Five hours lecture, fifteen hours lab.*

AERO   107   10.0 Units
Powerplant Maintenance II
Course Advisory: SCC minimum English standard. Presents a study of the theory, operation, maintenance and repair of the turbine engine and accessories. *Five hours lecture, fifteen hours lab.*

AERO   118   0.5 to 1.50 Units
FAA Airframe Test Review and Qualification
Course Advisory: SCC minimum English and Math standards. To be taken during the final semester of a student's enrollment in the Aviation Program. Consists of a comprehensive oral, practical, and written examination of all material covered in the Airframe Program for the purpose of verifying the student's readiness to pass the Federal Aviation Administration Airframe Examinations. This is an Open Entry / Open Exit course. *Six to eighteen hours lab (4-week course).*

AERO   119   0.5 to 1.50 Units
FAA Powerplant Test Review & Qualification
Course Advisory: SCC minimum English and Math standards. To be taken during the final semester of a student's enrollment in the Aviation Program. Consists of a comprehensive oral, practical, and written examination of all material covered in the Powerplant Program for the purpose of verifying the student's readiness to pass the Federal Aviation Administration Powerplant Examinations. This is an Open Entry / Open Exit course. *Six to eighteen hours lab (4-week course).*

AERO   150   0.5 to 1.50 Units
FAA Special Projects and Course Enhancement
Course Advisory: SCC minimum English and Math standards; Any Solano College Aeronautics course (AERO 055-119); or previous training/experience in aeronautics. This course is designed to give 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. This is an Open Entry / Open Exit course. *One and one-half to four and one-half hours lab.*

Aeronautics

AERO 151   **0.5 to 1.50 Units**
FAA Special Projects - Powerplant Enhancment
Course Advisory: SCC minimum English and Math standards; Any Solano College Aeronautics course (AERO 055-119; or previous training/experience in aeronautics. This course is designed to give 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. Also allows mechanics to take recurrent training. This is an Open Entry/Open Exit course. *One and one-half to four and one-half hours lab.*

AERO 176   **1.0 Unit**
Composite Materials Workshop
Prerequisite(s): AERO 175 with a grade of "C" or better. Course Advisory: SCC minimum English and Math standards. Continues the study of the manufacturing and maintenance of composite materials in aeronautical and aerodynamic structures. Through laboratory practice the student is able to improve their skills to aeronautical quality. Emphasis is placed on the safe handling of tools and chemicals used in composites. Does not qualify toward FAA licensing for airframe or powerplant mechanics. *Three hours activity.*

Anthropology

Associate in Arts in Anthropology for Transfer

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 Physical, Cultural, and Archaeology. In addition to acting as path for successful transfer to an institution offering a baccalaureate degree in Anthropology, the Associate in Arts in Anthropology for Transfer Degree provides students pursing any baccalaureate degree with basic skills in critical analysis, application of the scientific method, and cross-cultural understanding.

Associate in Arts in Anthropology for Transfer Degree
Upon completion of the Associate in Arts in Anthropology for Transfer Degree, students will be prepared to transfer to a CSU undergraduate Anthropology program. The Associate in Arts in Anthropology for Transfer Degree will facilitate successful transfer to the CSU system, allowing students to complete baccalaureate degrees in a more timely fashion.

To earn the Associate in Arts in Anthropology for Transfer degree, 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 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 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. Increase understanding of human biological and cultural diversity, and be able to discuss processes responsible for such variation.
3. Complete required anthropology (major) program courses.

REQUIRED COURSES . . . . **Units**
ANTH 001 Physical Anthropology 3
ANTH 002 Cultural Anthropology 3
ANTH 007 Archaeology 3
Select four units from List A 4
Select three to five units from List B . . . . 3 - 5
Select three units from List C 3

List A (select a minimum of 4 units)
ANTH 001L Physical Anthropology Laboratory 1.5
MATH 011 Elementary Statistics 4

List B (select 3 – 5 units)
BIO 004 Human Anatomy 5
GEOL 001 Physical Geology 3
GEOL 002 Geology Laboratory 1
GEOL 010 Introduction to Geographic
                Information Systems 3
PSYC 004 Research Methods in Behavioral Science 3

List C (select 3 units)
COMM 012 Intercultural Communication 3
SOC 001 Introduction to Sociology 3
GEOG 002 Cultural Geography 3
Required Major Total Units **19-26.5**
CSU General Education or IGETC Pattern Units . . **37-39**
CSU Transferable Electives
(as needed to reach 60 transferable units)* **5.5-21**
Total Degree Units. **60**

* 10.5-19.5 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.

Anthropology

ANTH 001   **3.0 Units**
Physical Anthropology
Course Advisory: ENGL 001 with a minimum grade of C. This course is an introduction to the science of physical 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. *Three hours lecture.*

ANTH 001L   **1.5 Units**
Physical Anthropology Laboratory
Prerequisite: ANTH 001 with a minimum grade of C (may enroll concurrently). Course Advisory: Eligibility for ENGL 001 and MATH 330. This introductory laboratory course is designed to familiarize students with the methods and materials of physical anthropology, and is intended to be a companion course to ANTH 1 (Physical 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. *One-half hour lecture, three hours lab.*

ANTH 002   **3.0 Units**
Cultural Anthropology
Course Advisory: ENGL 001 with a minimum grade of C. This course in 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. *Three hours lecture.*

ANTH 007   **3.0 Units**
Archaeology
Course Advisory: SCC minimum English and Math standards. 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. C-ID ANTH 150. *Three hours lecture.*

ANTH 049   **2.0 Units**
Anthropology Honors
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; and permission of the School Dean based on instructor availability. Open to students qualified to do advanced work in the field. The program may include research, directed reading, field work, or other advanced study. *Six hours by arrangement.*

Art

Art - Two-Dimensional

Program Description
Students may select from several studio art programs: Art—Two-Dimensional; Art—Three-Dimensional; Graphic Arts; and Studio Arts for Transfer. Students earning an Associates Degree in Art—Two-Dimensional will also qualify for the Studio Arts for Transfer Degree (AA-T). However, the Art—Two-Dimensional degree is more rigorous than the AA-T degree, and provides a deeper foundation for student artists. These programs are designed to develop visual skills in a variety of art media.

Associate in Arts Degree
The Associate in Arts Degree can be obtained upon completion of 60 units, including the courses in the major for Art—Two-Dimensional general education requirements, and electives. 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 Art Two-Dimensional Associate Degree 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.

Students must complete courses in all of the following components according to the listed requirements in each.

REQUIRED COURSES . . . . **Units**
Foundation Component
ART 006 Design Principles in 2-Dimensions. 3.5
ART 007 Design-Color 3.5
ART 008 Design Principles in 3-Dimensions. 3.5

Drawing Component . . . . **Units**
ART 004 Life Drawing. . . . . 2 - 3.5
ART 014 Introduction to Drawing. . . . . 2 - 3.5

Art History Component (Select 6 units). . . . . **Units**
ART 002 Art History 3
AND
ART 001 Art History 3
OR
ART 003A Arts of Asia. 3
OR
ART 003B Arts of Africa, Oceania, and the Americas 3
OR
ART 011 Survey of Modern Art 3

One course from List A – Painting Component. 2-3.5
One course from List B – 2D Emphasis Component. . 2-3.5
One course from List C – Three-Dimensional
    Component 2-3.5
Total Units . . . . **26.5 – 34**

List A: Painting Component (Select one course) . . . **Units**
ART 016 Beginning Painting . . . . 2 - 3.5
ART 017 Acrylic and Oil Painting . . . . 2 - 3.5
ART 021 Watercolor. . . . . 2 - 3.5

List B: 2D Emphasis Component (Select one course) **Units**
ART 005 Life Drawing. . . . . 2 - 3.5
ART 015 Intermediate Drawing. . . . . 2 - 3.5
ART 018 Advanced Intermediate Painting:
        Acrylic and Oil Painting . . . . 2 - 3.5
ART 019 Figure Painting. . . . . 2 - 3.5
ART 020 Landscape Drawing and Painting
        —Reflections of Nature. . . . . 2 - 3.5
ART 022 Watercolor. . . . . 2 - 3.5
ART 038 Introduction to Printmaking 3.5
ART 058 Clothed Figure . . . . 2 - 3.5
ART 061 Collage & Assemblage. . . . . 2 - 3.5
ART 100 Color and Mixed Media Drawing . . . . 2 - 3.5
ART 145 Portrait Drawing and Painting. . . . . 2 - 3.5

List C: Three Dimensional Component
    (Select one course) . . . . **Units**
ART 023 Introduction to Ceramics:
        Hand Building . . . . 2 - 3.5
ART 026 Introduction to Ceramics:
        Wheel Throwing Techniques . . . . 2 - 3.5
ART 031 Sculpture . . . . 2 - 3.5

Art

Recommended Electives

ART 010 Art Appreciation
ART 012 Inside/Outside: The Cultures and
　　　Identities of Visual Artists in a Diverse America
ART 016 Beginning Painting
ART 018 Advanced Intermediate Painting:
　　　Acrylic and Oil Painting
ART 019 Figure Painting
ART 020 Landscape Drawing and Painting--
　　　Reflections of Nature
ART 021 Watercolor
ART 022 Watercolor
ART 024 Intermediate Ceramics: Hand Building
ART 025 Ceramic Design And Decoration:
　　　Hand Building Methods
ART 027 Intermediate Ceramics:
　　　Wheel Throwing Techniques
ART 028 Ceramic Design: Wheel Throwing Techniques

ART 032 Sculpture: Human Figure
ART 033 Intermediate Sculpture
ART 034 Ceramic Sculpture
ART 035A Introduction to Wood-Fired Ceramics
ART 037 Clay and Glazes for the Ceramic Artist
ART 039 Etching and Engraving: Line Techniques
ART 040 Etching and Engraving: Tone
ART 041 Etching and Engraving: Color
ART 042 Screen Printing
ART 043 Printmaking: Relief Printing, Including Woodcut
ART 058 Clothed Figure
ART 060 Exhibition Design
ART 061 Collage & Assemblage
ART 074 Kiln Design and Operation
ART 075 Art Studio Concepts
ART 100 Color and Mixed Media Drawing
ART 145 Portrait Drawing and Painting
PHOT 030 Beginning Photography

Art

Art - Three-Dimensional

Program Description
Students may select from several studio art programs: Art—Two-Dimensional; Art—Three-Dimensional; Graphic Arts; and Studio Arts for Transfer (AA-T). These programs are designed to develop visual skills in a variety of art media. Students completing the requirements for the associates degree in Art—Three-Dimensional will also meet requirements for the Studio Arts AA-T degree. Art—Three-Dimensional is a more rigorous program, giving student artists a deeper foundation for further study and artistic practice.

Associate in Arts
The Associate in Arts Degree can be obtained upon completion of 60 units, including the courses in the major for Art—Three-Dimensional, general education requirements, and electives. 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 Art – Three Dimensional Associate Degree 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.

Students must complete courses in all of the following components according to the listed requirements in each.

REQUIRED COURSES . . . . **Units**
Foundation Component
ART 006 Design Principles in 2-Dimensions. 3.5
ART 007 Design-Color 3.5
ART 008 Design Principles in 3-Dimensions. 3.5

Sculpture Component. . . . . **Units**
All of the following:
ART 031 Sculpture . . . . 2 - 3.5
ART 032 Sculpture: Human Figure . . . . 2 - 3.5

Art History Component . . . . **Units**
ART 002 Art History 3
ART 001 Art History 3
OR
ART 003A Arts of Asia 3
OR
ART 003B Arts of Africa, Oceania and the Americas 3
OR
ART 011 Survey of Modern Art 3

Drawing Component . . . . **Units**
ART 014 Introduction to Drawing. . . . . 2 - 3.5

One course from List A – Ceramics Component 2-3.5
One course from List B - Emphasis Component 2-3.5
One course from List C - Professionalism
    Component 2-3.5
    Total Units . . . . **29.5 – 37.5**

List A: Ceramics Component
    (Select one course). . . . . **Units**
ART 023 Introduction to Ceramics: Hand Building . 2 - 3.5
ART 024 Intermediate Ceramics: Hand Building . . . 2 - 3.5
ART 025 Ceramic Design And Decoration:
            Hand Building Methods . . . . 2 - 3.5
ART 026 Introduction to Ceramics:
            Wheel Throwing Techniques . . . . 2 - 3.5
ART 027 Intermediate Ceramics:
            Wheel Throwing Techniques. . . . . 2 - 3.5
ART 028 Ceramic Design:
            Wheel Throwing Techniques . . . . 2 - 3.5

List B: Emphasis Component (Select one course) . . **Units**
ART 029 Raku Pottery . . . . 2 - 3.5
ART 030 Architectural Ceramics, Murals and Tiles . 2 - 3.5
ART 033 Intermediate Sculpture . . . . 2 - 3.5
ART 034 Ceramic Sculpture . . . . 2 - 3.5
ART 035A Introduction to Wood-Fired Ceramics . . . 2 - 3.5
ART 036 Ceramic Surfaces - Drawing
            and Painting on Clay. . . . . 2 - 3.5
ART 037 Clay and Glazes for the Ceramic Artist . . . 2 - 3.5
ART 074 Kiln Design and Operation. . . . . 2 - 3.5

List C: Professionalism Component
    (Select one course). . . . . **Units**
ART 076A Portfolio Development – Artistic Inquiry . . . 3.5
ART 076B Portfolio Development: Documentation 3.5
ART 077A Professional Practices for Artists. 3
ART 077B Art on Site 3

Art

Recommended Electives
ART 004 Life Drawing
ART 005 Life Drawing
ART 010 Art Appreciation
ART 011 Survey of Modern Art
ART 012 Inside/Outside: The Cultures and
      Identities of Visual Artists in a Diverse America
ART 015 Intermediate Drawing
ART 024 Intermediate Drawing
ART 025 Ceramic Design and Decoration:
      Hand Building Methods

ART 027 Intermediate Ceramics:
      Wheel Throwing Techniques
ART 028 Ceramic Design: Wheel Throwing Techniques
ART 034 Ceramic Sculpture
ART 035A Introduction to Wood-Fired Ceramics
ART 037 Clay and Glazes for the Ceramic Artist
ART 039 Etching and Engraving: Line Techniques
ART 040 Etching and Engraving: Tone
ART 041 Etching and Engraving: Color
ART 042 Screen Printing
ART 043 Printmaking: Relief Printing, Including Woodcut
ART 060 Exhibition Design

Art

Art History

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. By completing this program, students will also complete the requirements for the A.A.-T degree in Art History. However, this program is more rigorous than the A.A.-T degree, providing a broader founder for the Art History student.

Associate in Arts Degree
The Associate in Arts Degree can be obtained by completing a total of 60 units, including the 25-25.5 units for the major, the general education requirements, and electives. 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 Art History Associate Degree 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 001 Art History 3
ART 002 Art History 3
ART 014 Introduction to Drawing 3.5
Both classes from List A: Non-Western Art History 6
Select one class from List B:
　Modern, Contemporary, and Theory 3
Select one class from List C: Studio Art:
　Principles of Design 3.5
Select one class from List D: Diverse Media 3-3.5
　Total Units . . . . **25 - 25.5**

List A: Non-Western Art History
　(both classes required) . . . . **Units**
ART 003A Arts of Asia 3
ART 003B Arts of Africa, Oceania, and the Americas 3

List B: Modern, Contemporary, and Theory
　(select one course) . . . . **Units**
ART 011 Survey of Modern Art 3
ART 012 Inside/Outside: The Cultures and Identities
　　　of Visual Artists in a Diverse America 3

List C: Studio Art: Principles of Design
　(select one course) . . . . **Units**
ART 006 Design Principles in 2-Dimensions 3.5
ART 007 Design-Color 3.5
ART 008 Design Principles in 3-Dimensions 3.5

List D: Diverse Media
　(Select one course) . . . . **Units**
ART 023 Introduction to Ceramics: Hand Building . . 3-3.5
ART 026 Introduction to Ceramics:
　　　Wheel Throwing Techniques 3-3.5
ART 030A Architectural Ceramics,
　　　　Murals and Tiles 3-3.5
ART 030B Mural Painting: History,
　　　　Community, Practice 3.5
ART 038 Introduction to Printmaking 3.5
ART 056 Graphic Design I 3.5
PHOT 030 Beginning Photography 3
PHOT 070 Beginning Digital Photography 3

Art

Associate in Arts in Art History for Transfer

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 the Art History industry. The Associate in Arts in Art History for Transfer degree is especially designed for students who plan to complete a bachelor's degree in Art History at a CSU campus.

Associate in Arts in Art History for Transfer
The Associate in Arts in Art History for Transfer degree is especially designed for students who plan to complete a bachelor's degree in Art History at a CSU campus. Students completing an Associate in Arts in Art History 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 Associate in Arts in Art History for Transfer degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. Associate in Arts in Art History for Transfer degree also prepares students for art history degree programs at CSU 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 degree, 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 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 Art History for Transfer degree 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 001 Art History 3
ART 002 Art History 3
ART 014 Introduction to Drawing 3.5

Select 3 units from List A 3
Select 3 units from List B 3
Select 3 units from List C 3

List A: Non-Western Arts History (select 3 units)
ART 003A Arts of Asia 3
ART 003B Arts of Africa, Oceania, and the Americas 3

List B: Modern, Contemporary, and Theory
(select 3 units) . . . . **Units**
ART 011 Survey of Modern Art 3
ART 012 Inside/Outside: The Cultures and Identities
of Visual Artists in a Diverse America 3

List C: Studio Art (select minimum of 3 units) . . . **Units**
ART 004 Life Drawing 3.5
ART 006 Design Principles in 2-Dimensions 3.5
ART 007 Design-Color 3.5
ART 008 Design Principles in 3-Dimensions 3.5
ART 016 Beginning Painting 3.5
ART 019 Figure Painting 3.5

ART 023 Introduction to Ceramics: Hand Building 3.5
ART 026 Introduction to Ceramics:
Wheel Throwing Techniques 3.5
ART 031 Sculpture 3.5
ART 032 Sculpture: Human Figure 3.5
ART 038 Introduction to Printmaking 3.5
ART 039 Etching and Engraving: Line Techniques 3.5
ART 043 Printmaking: Relief Printing,
Including Woodcut 3.5
ART 056 Graphic Design I 3.5
PHOT 030 Beginning Photography 3

Required Major Total Units . . . . 18.5 - 19
CSU General Education or IGETC Pattern Units . . 37 - 39
CSU Transferable Electives
(as needed to reach 60 transferable units)* . . . . . . 4.5 – 7.5

Total Degree Units 60

* 3 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.

Art

Graphic Design & Illustration

Program Description
This 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.

Associate in Arts Degree
The Associate in Arts Degree can be obtained by completing a total of 60 units, including the 27-31.5 unit major, the general education requirements, and electives. 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 Graphic Design & Illustration Associate Degree 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 . . . . 2 - 3.5
OR
ART 015 Intermediate Drawing . . . . 2 - 3.5
ART 006 Design Principles in 2-Dimensions 3.5
ART 007 Design-Color 3.5
ART 014 Introduction to Drawing . . . . 2 - 3.5
ART 052 Lettering and Layout . . . . 2 - 3.5
ART 054 Illustration I 3.5
ART 055 Illustration II 3.5
ART 056 Graphic Design I 3.5
ART 057 Graphic Design II 3.5
    Total Units . . . . **27 - 31.5**

Recommended Electives
ART 001 Art History
ART 002 Art History
ART 003 World Art
ART 004 * Life Drawing
ART 005 Life Drawing
ART 010 Art Appreciation
ART 015 * Intermediate Drawing
ART 023 Introduction to Ceramics: Hand Building
ART 026 Introduction to Ceramics: Wheel Throwing
    Techniques
ART 031 Sculpture
ART 032 Sculpture: Human Figure
ART 038 Introduction to Printmaking
ART 041 Etching and Engraving: Color
BUS 181 Business Mathematics
CINA 010 The Art of Cinema
CINA 015 Film Production
DRFT 050 Basic Drafting
ENGL 051 Technical Writing
JOUR 060 Publications Laboratory
MKT 171 Introduction to Marketing
MKT 172 Market Management and Planning
OCED 090 Occupational Work Experience
OCED 091 General Work Experience
PHOT 030 Beginning Photography
TV 050 Survey of Broadcasting
TV 055 Beginning Television Production
TV 056 Advanced Television Production

*If not already taken as part of the major

Art

Associate in Arts in Studio Arts for Transfer

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.

Associate in Arts in Studio Arts for Transfer
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 Art for Transfer degree, 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 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 Studio Arts for Transfer degree 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 CORE . . . . **Units**
ART 002 Art History 3
ART 006 Design Principles in 2-Dimensions. 3.5
ART 008 Design Principles in 3-Dimensions. 3.5
ART 014 Introduction to Drawing 3.5
3 units from List A 3
9 units from List B 9

List A (choose three units) . . . . **Units**
ART 001 Art History 3
ART 003 World Art. 3
ART 011 Survey of Modern Art 3
ART 012 Inside/Outside: The Culture and Identities
          of Visual Arts in Diverse America. 3

List B (choose a minimum of 9 units) . . . . **Units**
ART 004 Life Drawing. . . . . 3 - 3.5
ART 005 Life Drawing. . . . . 3 - 3.5
ART 007 Design-Color 3.5
ART 015 Intermediate Drawing. . . . . 3 - 3.5
ART 016 Beginning Painting . . . . 3 - 3.5
ART 017 Acrylic and Oil Painting . . . . 3 - 3.5
ART 018 Acrylic and Oil Painting . . . . 3 - 3.5
ART 019 Figure Painting. . . . . 3 - 3.5
ART 021 Watercolor. . . . . 3 - 3.5
ART 022 Watercolor. . . . . 3 - 3.5
ART 023 Introduction to Ceramics: Hand Building . 3 - 3.5

ART 026 Introduction to Ceramics:
          Wheel Throwing Techniques . . . . 3 - 3.5
ART 031 Sculpture . . . . 3 - 3.5
ART 032 Sculpture: Human Figure . . . . 3 - 3.5
ART 034 Ceramic Sculpture . . . . 3 - 3.5
ART 038 Introduction to Printmaking 3.5
ART 039 Etching and Engraving: Line Techniques. . 3 - 3.5
ART 041 Etching and Engraving: Color . . . . 3 - 3.5
ART 043 Printmaking: Relief Printing,
          Including Woodcut . . . . 3 - 3.5
ART 052 Lettering and Layout. . . . . 3 - 3.5
ART 056 Graphic Design I 3.5
PHOT 030 Beginning Photography 3

Required Major Total Units . . . . 25.5 – 27
CSU General Education or IGETC Pattern Units . 37 - 39
CSU Transferable Electives
  (as needed to reach 60 transferable units)* . . . . 0 - 2
Total Degree Units. 60

* 6 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.

Art

ART   001   **3.0 Units**
Art History
Course Advisory: Eligibility for ENGL 001. Explores 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. *Three hours lecture.*

ART   002   **3.0 Units**
Art History
Course Advisory: Eligibility for ENGL 001. 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 the artistic choices of diverse men and
women of art history from the 15th century to today.
Field trip may be required. C-ID ARTH 120. *Three
hours lecture.*

ART   003   **3.0 Units**
World Art
*Course Advisory: Eligibility for English 001 and SCC
minimum Math standard.* A survey of the traditional
arts of Asia, Africa, the Americas, and the Pacific
Islands. Includes an exploration of recurrent themes in
the art and architecture of non-Western cultures, as
well as recurrent issues related to Western scholarship
and exhibition of non-Western art. *Three hours lecture.*

ART   003A   **3.0 Units**
Arts of Asia
*Course Advisory: Minimum Standards: English 001 and
SCC minimum MATH standard.* This course provides a
survey of art and architecture from India, Southeast
Asia, China, Korea, and Japan from pre-history to
modern times. C-ID ARTH 130. *Three hours lectrure.*

ART   003B   **3.0 Units**
Arts of Africa, Oceania, and the Americas
*Course Advisory: Minimum Standards: English 001 and
SCC minimum MATH standard.* This course is a survey
of the arts and architecture of Africa, Oceania, and the
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. C-ID ARTH 140. *Three hours lecture.*

ART   004   **2.0 or 3.5 Units**
Life Drawing
Course Advisory: SCC minimum English standard. 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. *One to two hours
lecture, three to four and one-half hours lab.*

ART   005   **2.0 or 3.5 Units**
Life Drawing
Prerequisite: ART 004 with a minimum grade of C. The
continued study of the human figure with more
advanced problems in drawing and composition.
Following initial review, the student may choose an
individual program of study with the approval of the
instructor. Field trip may be required. *One to two hours
lecture, three to four and one-half hours lab.*

ART   006   **3.5 Units**
Design Principles In 2-Dimensions
Course Advisory: SCC minimum English standard. A
fundamental study of visual elements and principles
of design for production of art images in 2-dimensions
using various materials in black and white. Design
formats developed from historic and esthetic precepts
are employed to investigate the relationship of form
and content. Field trip may be required. C-ID ARTS
100. *Two hours lecture, four and one-half hours lab.*

ART   007   **3.5 Units**
Design-Color
Course Advisory: SCC minimum English standard. A
study of the principles of additive and substractive
color in two dimensions. Various theories of color will
be studied including those of Albers and Ittens.
Reference to the use of color in the dominant styles of
art history will be made. Students will produce a
portfolio of projects in applied color and the elements
of design. Field trip may be required. C-ID ARTS 270.
Two hours lecture, four and one-half hours lab.

Art

ART   008   **3.5 Units**
Design Principles In 3-Dimensions
Course Advisory: SCC minimum English standard. The fundamental study of visual elements and principles of design for production of art objects in three dimensions using various sculpture materials and methods. Design formats developed from historic and esthetic precepts are employed to investigate the relationships of form and content. Field trip may be required. C-ID ARTS 101. *Two hours lecture, four and one-half hours lab.*

ART   010   **3.0 Units**
Art Appreciation
Course Advisory: Eligibility for English 001. An introductory course examining the cultural, universal, and personal factors influencing the making and viewing of art. Includes a study of style, composition, materials and techniques used in the creation of art from disparate cultures and periods of history. Field trip may be required. *Three hours lecture.*

ART   011   **3.0 Units**
Survey Of Modern Art
Course Advisory: Eligibility for English 001. A study of the major art styles and artists from 1875 to the present. Analysis of subject, form and content of paintings, photography and sculpture in lecture and audio visual presentation. Classes supplemented by field trips to current exhibitions. Written examinations and term paper required. Field trip may be required. *Three hours lecture.*

ART   012   **3.0 Units**
Inside/Outside: The Cultures And Identities Of Visual Artists
Course Advisory: English 001. An art survey course that examines and assesses three or more groups of culturally diverse artists, art organizations and support structures. Explores art issues related to social and historical trends in the U.S., including ways in which art may reflect and shape American attitudes towards ethnic identity, race, gender, culture and discrimination. Field trip may be required. *Three hours lecture.*

ART   014   **2.0 or 3.5 Units**
Introduction To Drawing
Course Advisory: SCC minimum English standard. 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. *One to two hours lecture, three to four and one-half hours lab.*

ART   015   **2.0 or 3.5 Units**
Intermediate Drawing
Course Advisory: ART 014; SCC minimum English and Math standards. A basic drawing class which develops the concepts introduced in ART 014 on a more advanced level. Problems in observation and imagination and the translation of these experiences into graphic terms by exploration of line, shape, mass, space, texture, and light and shadow. 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. C-ID ARTS 205. *One to two hours lecture, three to four and one-half hours lab.*

ART   016   **2.0 or 3.5 Units**
Beginning Painting
Course Advisory: ART 014; SCC minimum English standard. 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. Field trip may be required. *One to two hours lecture, three to four and one-half hours lab.*

ART   017   **2.0 or 3.5 Units**
Intermediate Painting: Acrylic and Oil
Course Advisory: SCC minimum English standard. A study of acrylic and oil painting techniques focusing on use of color, the medium and composition. A series of painting assignments designed to develop skills in both media. Field trip may be required. *One to two hours lecture, three to four and one-half hours lab.*

Art

ART 018   **2.0 or 3.5 Units**
Advanced Intermediate Painting: Acrylic and Oil
Prerequisite: ART 017 with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. A study of color, composition and technique in oil or acrylic painting on an intermediate level. The student may choose to repeat assignments from ART 017 or develop an outline of semester assignments appropriate to his interest and skill needs. Field trip may be required. *One to two hours lecture, three to four and one-half hours lab.*

ART 019   **2.0 or 3.5 Units**
Figure Painting
Course Advisory: SCC minimum English standard. A study of figure painting techniques. Students work directly from the model to develop skills in rendering and expression. Field trip may be required. *One to two hours lecture, three to four and one-half hours lab.*

ART 020   **2.0 or 3.5 Units**
Landscape Drawing And Painting— Reflections Of Nature
Course Advisory: SCC minimum English and Math standards. Focuses on the outdoors as subject matter. Frequent field trips and class exercises will 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 an 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. *One to two hours lecture, three to four and one-half hours lab.*

ART 021   **2.0 or 3.5 Units**
Watercolor
Course Advisory: SCC minimum English standard. 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. *One to two hours lecture, three to four and one-half hours lab.*

ART 022   **2.0 or 3.5 Units**
Watercolor
Prerequisite: ART 021 with a minimum grade of C. Course Advisory: SCC minimum English standard. 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. *One to two hours lecture, three to four and one-half hours lab.*

ART 023   **2.0 or 3.5 Units**
Introduction to Ceramics: Hand Building
Course Advisory: SCC minimum English standard. Covers 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. *One to two hours lecture, three to four and one-half hours lab.*

ART 024   **2.0 or 3.5 Units**
Intermediate Ceramics: Hand Buiding
Prerequisite: ART 023 with a minimum grade of C. Course Advisory: SCC minimum English standard. Continuation of ART 023 with emphasis on expanding skills, experimentation, design, craftspersonship, and creativity. Application of basic techniques to create finished art forms. Field trip may be required. *One to two hours lecture, three to four and one-half hours lab.*

ART 025   **2.0 or 3.5 Units**
Ceramic Design And Decoration: Hand Building Methods
Prerequisite: ART 024 with a minimum grade of C. Course Advisory: SCC minimum English standard. 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. Builds on fundamental skills covered in Art 023 and Art 024. Field trip may be required. *One to two hours lecture, three to four and one-half hours lab.*

ART   026   2.0 or 3.5 Units
Introduction to Ceramics:
Wheel Throwing Techniques
Course Advisory: SCC minimum English standard.
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. *One to two*
hours lecture, three to four and one-half hours lab.

ART   027   2.0 or 3.5 Units
Intermediate Ceramic/
Wheel Throwing Techniques
Prerequisite: ART 026 with a minimum grade of C. Course
Advisory: SCC minimum English standard. Continuation
of ART 026 with emphasis on expanding skills,
experimentation, design, craftspersonship, and
creativity. Application of basic techniques to create
finished art forms. Field trip may be required. *One to*
two hours lecture, three to four and one-half hours lab.

ART   028   2.0 or 3.5 Units
Ceramic Design: Wheel Throwing Techniques
Prerequisite: ART 027 with a minimum grade of C. Course
Advisory: SCC minimum English standard. 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. Builds on fundamental skills covered in
ART 026 and ART 027. Field trip may be required. *One*
to two hours lecture, three to four and one-half hours lab.

ART   029   2.0 or 3.5 Units
Raku Pottery
Course Advisory: SCC minimum English standard. ART
023 or ART 026 (one college level ceramics course). Covers
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. Field trip may be required. *One*
to two hours lecture, three to four and one-half hours lab.

ART   030A   2.0 or 3.5 Units
Architectural Ceramics, Murals and Tiles
Course Advisory: SCC minimum English standard. ART
023 or ART 026 (one college level ceramics course). This
course will investigate the history, contemporary
examples, materials, techniques and the vast range of
artistic expression possible in architectural ceramics,
ceramic murals and tiles. The course will not cover
basic ceramic construction techniques. 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 in this course.
One to two hours lecture, three to four and one-half hours lab.

ART   030B   3.5 Units
Mural Painting: History, Community, Practice
This course explores 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. Course
requires field trips. Students will travel to view murals
in the Bay Area. Murals may be painted at a site off-
campus. *Four hours lecture, nine hours of lab (8-week*
course).

ART   031   2.0 or 3.5 Units
Sculpture
Course Advisory: SCC minimum English standard.
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. *One*
to two hours lecture, three to four and one-half hours lab.

Art

ART 032 2.0 or 3.5 Units
Sculpture—Human Figure
Course Advisory: SCC minimum English standard. Study of the human form in sculpture. Students will create both realistic and abstract sculpture of the human form in a variety of materials. Field trip may be required. *One to two hours lecture, three to four and one-half hours lab.*

ART 033 2.0 or 3.5 Units
Intermediate Sculpture
Prerequisite: ART 031 or ART 032 or ART 034 with a minimum grade of C. Course Advisory: SCC minimum English standard. Further development of concepts and skills presented in ART 031 and 032. Emphasis is placed on individual expression. A variety of materials, methods, and sculptural concepts are explored. Field trip may be required. *One to two hours lecture, three to four and one-half hours lab.*

ART 034 2.0 or 3.5 Units
Ceramic Sculpture
Course Advisory: SCC minimum English standard. 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. *One to two hours lecture, three to four and one-half hours lab.*

ART 035A 2.0 or 3.5 Units
Introduction to Wood-Fired Ceramics
Course Advisory: SCC minimum English and Math standards. Covers 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. *One to two hours lecture, three to four and one-half hours lab.*

ART 036 2.0 or 3.5 Units
**Ceramics Surfaces -
Drawing and Painting on Clay**
Course Advisory: SCC minimum English and Math standards. This course in ceramic surface design will explore the vast range of artistic expression possible 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. *One to two hours lecture, three to four and one-half hours lab.*

ART 037 2.0 or 3.5 Units
Clay and Glazes for the Ceramic Artist
Prerequisite: ART 023 or 026 with a minimum grade of C or equivalent. Course Advisory: SCC minimum English and Math standards. Covers and investigates the theoretical and practical aspects of clay 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. *One to two hours lecture, three to four and one-half hours lab.*

ART 038 3.5 Units
Introduction to Printmaking
Course Advisory: SCC minimum English and Math standards. Explores traditional and contemporary approaches to etching (Intaglio), lithography, and relief (woodcut and linoleum) printing. Digital and new methods of photographic printmaking are discussed and demonstrated. This course is project oriented to enable the student to develop a portfolio of completed works in various mediums. Field trip may be required. *Two hours lecture, four and one-half hours lab.*

ART 039 2.0 or 3.5 Units
Etching and Engraving: Line Techniques
Course Advisory: SCC minimum English standard. Covers history and techniques of line etching and engraving, including dry point, sugar lift line etching, and soft ground line variations. The student is expected to produce matted prints of completed projects. Field trip may be required. *One to two hours lecture, three to four and one-half hours lab.*

ART 040   **2.0 or 3.5 Units**
Etching and Engraving: Tone
Course Advisory: SCC minimum English standard. Includes etching and engraving techniques such as aquatint, featherbiting, spit bite, and soft ground which produce tones that have gray and black areas defining line etchings. The student will prepare a portfolio of completed projects. Field trip may be required. *One to two hours lecture, three to four and one-half hours lab.*

ART 041   **2.0 or 3.5 Units**
Etching and Engraving: Color
Course Advisory: SCC minimum English and Math standards. Includes 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 student will prepare a portfolio of completed projects. Field trip may be required. *One to two hours lecture, three to four and one-half hours lab.*

ART 042   **2.0 or 3.5 Units**
Screen Printing
Course Advisory: SCC minimum English and Math standards. Screen printing techniques from paper stencils and pochoir to photographic and digital processes. Students are expected to 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. Field trip may be required. *One to two hours lecture, three to four and one-half hours lab.*

ART 043   **2.0 or 3.5 Units**
Print Making: Relief Printing, Including Woodcut
Course Advisory: SCC minimum English and Math standards. A general introduction to printmaking - the history, development, techniques, and processes. Emphasis is on an in-depth study and application of various relief methods (embossing, collagraph, linoleum cut, woodcut, and non-traditional methods) along with an investigation of relevant image source and development. Field trip may be required. *One to two hours lecture, three to four and one-half hours lab.*

ART 049   **1.0 to 3.0 Units**
Art Honors
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 grade of 'B' or better; an ability to work independently; permission of the School Dean based on instructor availability. An independent study course designed for sophomores or students who have taken many of the basic classes and wish to continue work with an instructor in a specialized area. The student works by arrangement with the instructor on an outlined program of study. *Three to nine hours by arrangement.*

ART 052   **2.0 or 3.5 Units**
Lettering and Layout
Course Advisory: SCC minimum English standard. Basic lettering skills in several media for reproduction and creative lettering. Study of layout and illustration in sign, poster, and advertising design. Recommended for commercial art students and art majors. *One to two hours lecture, three to four and one-half hours lab.*

ART 054   **3.5 Units**
Illustration I
Course Advisory: SCC minimum English standard. Problems in design and rendering of illustration for print and film media. Projects may include illustrations for books, magazines, advertising and film. Field trip may be required. *Two hours lecture, four and one-half hours lab.*

ART 055   **3.5 Units**
Illustration II
Prerequisite: ART 054 with a minimum grade of C or equivalent as determined by portfolio review. Course Advisory: SCC minimum English standard. Studio illustration conception, production and finish. Students will execute illustration projects using professional procedures and equipment. Emphasis is on student creative and technical development. Written papers and portfolio review required. *Two hours lecture, four and one-half hours lab.*

Art

ART 056   **3.5 Units**
Graphic Design I
Provides fundamental background for terminal and transfer students planning to enter the graphic design field. Instruction in the professional use of design, lettering, and illustration through solution of visual communication problems. *Two hours lecture, four and one-half hours lab.*

ART 057   **3.5 Units**
Graphic Design II
Prerequisite: ART 056 with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. Computer design and production methods for print and digital mediums using Macintosh computers and Adobe and other software programs for layout, illustration, typography, and animation. Graphic design principles are stressed. *Two hours lecture, four and one-half hours lab.*

ART 058   **2.0 or 3.5 Units**
Clothed Figure
Course Advisory: SCC minimum English standard. Course emphasis is 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. *One to two hours lecture, three to four and one-half hours lab.*

ART 060   **1.0 to 3.0 Units**
Exhibition Design
Course Advisory: Eligibility for English 001. Provides fundamentals of designing exhibitions in galleries, museum, and alternative spaces. Students will gain experience developing exhibitions for the Herger Gallery (Fairfield Campus) and Centers. Topics covered include selection, design and installation of exhibitions; defining the mission of a gallery; public relations; and career opportunities. Field trip may be required. *One to Three hours lecture.*

ART 061   **2.0 or 3.5 Units**
Collage and Assemblage
Course Advisory: SCC minimum English standard. 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. *One to two hours lecture, three to four and one-half hours lab.*

ART 064   **3.5 Units**
Monotype/Monoprint
Course Advisory: SCC minimum English and Math standards. This course will focus on the unique print. Study will include history and development of this form in relation to print tradition. Development of press skills in single-drop and multi-drop printing is required. A portfolio of printing techniques including direct, indirect and combination prints will be required. Field trip may be required. *Two hours lecture, four and one-half hours lab.*

ART 065   **3.5 Units**
Book Making
Course Advisory: SCC minimum English and Math standards. 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 artist's books including altered books, boxed books, and 3 dimensional book structures like accordion books and pop-up books. Field trip may be required. *Two hours lecture, four and one-half hours lab.*

ART 066A   **2.0 Units**
Travel Study- Topics in Studio Art
Course Advisory: SCC minimum English standard. Designed to offer study in a wide range of topics related to the studio practice of 2-D art, allowing for concentrated exploration of a topic not normally treated in any depth in a survey class. The content will vary each semester and will be described in the Schedule of Classes. Course requires travel and additional expense; check with instructor for further information. *Eight hours lecture and twenty-four hours lab. (2-week course).*

Art

ART 066B   **1.0 to 3.0 Units**
Travel Study- Topics in Art History
Course Advisory: Eligibility for English 001. This Travel Study course offers students the opportunity to study art in person. Lectures will be held at museums, archaeological sites, and other venues with art historical significance. The specific topic of art history study will vary from term to term, according to the featured travel destination and selection of sites. Studying art in context will allow a concentrated exploration of a topic not usually discussed in-depth in a survey class. The destination(s) and topic for each semester will be described in the Schedule of Classes. Course requires travel and additional expense; check with instructor for further information. Minimum four *hours lecture and maximum twelve hours lecture (4-week course).*

ART 074   **2.0 or 3.5 Units**
Kiln Design and Operation
Course Advisory: SCC minimum English and Math standards. ART 023 or ART 023 (one college level ceramics course). This course in kiln design and operation will investigate the vast range 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. *One to two hours lecture, three to four and one-half hours lab.*

ART 075   **2.0 or 3.5 Units**
Art Studio Concepts
Course Advisory: SCC minimum English standard. Intensive study in visual arts studio. Exposure to contemporary art directions, trends and selected topics. Different studio problems will be investigated each semester. Field trips may be required. *One to two hours lecture, three to four and one-half hours lab.*

ART 076A   **3.5 Units**
Portfolio Development - Artistic Inquiry
Course Advisory: SCC minimum English standard. This is 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. *Two hours lecture, four and one-half hours lab.*

ART 076B   **3.5 Units**
Portfolio Development: Documentation
Course Advisory: SCC minimum English standard. At least 3 courses in designated studio art focus of the semester. This is 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. *Two hours lecture, four and one-half hours lab.*

Art

ART   077A   **3.0 Units**
Professional Practices for Artists
Course Advisory: SCC minimum English standard. This course is designed to provide 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. *Three hours lecture.*

ART   077B   **3.0 Units**
Art on Site
Course Advisory: SCC minimum English standard. Art on Site is a movable feast. We 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. *Three hours lecture.*

ART   100   **2.0 or 3.5 Units**
Color and Mixed Media Drawing
Course Advisory: SCC minimum English standard. Course focuses 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. *One to two hours lecture, three to four and one-half hours lab.*

ART   145   **2.0 or 3.5 Units**
Portrait Drawing and Painting
Course Advisory: ART 014. 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. *One to two hours lecture, three to four and one-half hours lab.*

Automotive

Automotive Body and Repair

Program Description
This program is designed to prepare the student for employment as a body repair and paint apprentice in privately owned repair shops or automotive dealerships. A student could be self-employed from the training after completing the program.

Certificate of Achievement and Associate Degree in Science
A Certificate of Achievement can be obtained by completing the 46-unit major below. The Associate in Science Degree can be obtained by completing 67 units, including the major and the general education requirements. 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 Automotive Body and Repair Certificate of Achievement/ Associate Degree will be able to:
1. Demonstrate knowledge of metal joining and straightening methods.
2. Inspect, remove, install, align panels, doors and trim to meet shop standards
3. Determine type of paint; plan refinishing system; remove, prepare, seal and mask; apply coatings to vehicle.
4. Demonstrate correct use of chemicals within the shop environment.
5. Work safely and responsibly within all safety and environmental guideline standards for a shop.
6. Identify and strategize career plans for employment in the auto collision field.

REQUIRED COURSES . . . . **Units**
AUTB 100 Fundamentals of Auto Body Repair 10
AUTB 101 Spray Paint Theory and Techniques 10
AUTB 102 Automotive Body Panels
        and Frame Straightening 10
AUTB 103 Advanced Auto Body Repair and Painting . . 10
IT 140 Industrial Materials 3
IT 150 Industrial Processes 3
    Total Units **46**

Some courses may not be offered. Please contact the Dean of Applied Technology and Business for alternate courses if necessary.

Recommended Electives
BUS 005 Introduction to Business
DRFT 079 Blueprint Reading
IT 110 Modern Welding
OCED 070 Occupational Soft Skills
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

This is a Gainful Employment Program. For additional information, please visit *http://www.solano.edu/gainful_employment/* and select "Automotive Body & Repair."

Automotive

Automotive Technician

Program Description
This program is designed to prepare graduates for employment in the automotive industry as apprentice mechanics, parts people, service station attendants or specialists in one of the many areas in, or jobs related to, the automotive industry.

Certificate of Achievement and Associate of Science Degree
A Certificate of Achievement can be obtained by completing the 40-unit major below. The Associate in Science Degree can be obtained upon completion of 61 units, including the major, and the general education requirements. 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 Automotive Technician Certificate of Achievement/Associate Degree will be technically proficient in entry level skills as defined by the National Automotive Technician's Education Foundation. (NATEF) by demonstrating:
1. 85 percent of the tasks established by NATEF.
2. Proper service and repair procedures of the following systems:
    • Engine Repair
    • Automatic Transaxles/Transmissions
    • Manual Drivetrain
    • Suspension, Steering and Alignment
    • Brakes
    • Electrical Systems
    • Heating and Air Conditioning
    • Engine Performance
3. Proper safety procedures and techniques.
4. Efficient oral and written communication.
5. The ability to apply fundamental automotive technology principles.
6. Skills for successful employment in the field of Automotive Mechanics Repair Technology.

REQUIRED COURSES . . . . Units
ATEC 130 Automotive Systems 10
ATEC 131 Automotive Electrical Systems 10
ATEC 132 Automotive Brakes and
       Suspension Systems. 10
ATEC 133 Internal Combustion Engines
      and Power Transmission 10
   Total Units 40

Recommended Electives
BUS 005 Introduction to Business
IT 110 Modern Welding
IT 140 Industrial Materials
OCED 070 Occupational Soft Skills
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Automotive Technician."

Automotive

Automotive Technician

(For additional listings see "Industrial Education" section of this catalog.)

ATEC 070   3.0 Units
Automotive Fundamentals

Course Advisory: SCC minimun English and Math standards. This course serves as the pre-requisite for all automotive technology certificate and/or degree applicable courses and 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. *Two hours lecture, three hours lab.*

ATEC 130   4.0 Units
Automotive Suspension and Steering

Prerequisite: ATEC 070 with a minimum grade of C (may be taken concurrently). Course Advisory: ATEC 131 Automotive Electical Systems, and SCC minimum English and Math standard. 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. *Two hours lecture, six hours lab.*

ATEC 131   4.0 Units
Automotive Electrical Systems

Prerequisite: ATEC 070 with a minimum grade of C (may be taken concurrently). Course Advisory: SCC minimum English and Math standard. A course covering theory and principles of automotive electrical systems. The course includes 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. The laboratory portion of the course will place emphasis on diagnosis and testing techniques required to effectively determine the necessary action in an electrical system failure. The 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. *Two hours lecture, six hours lab.*

ATEC 132   4.0 Units
Automotive Brake Systems

Prerequisite: ATEC 070 with a minimum grade of C (may be taken concurrently). Course Advisory: ATEC 131 Automotive Electrical Systems, and SCC minimum English and Math standard. 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. *Two hours lecture, six hours lab.*

Automotive

ATEC 133   **4.0 Units**
Automotive Engine Repair
Prerequisite: ATEC 070 with a minimum grade of C (may be taken concurrently). Course Advisory: ATEC 131 Automotive Electical Systems, and SCC minimum English and Math standard. 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. The laboratory portion of the course 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. *Two hours lecture, six hours lab.*

ATEC 134   **4.0 Units**
Automatic Transmissions/Transaxles
Prerequisite: ATEC 070 with a minimum grade of C (may be taken concurrently). Course Advisory: ATEC 131 Automotive Electrical Systems, and SCC minimum English and Math standards. 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. The laboratory portion of the course 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. *Two hours lecture, six hours lab.*

ATEC 135   **4.0 Units**
Automotive Engine Performance
Prerequisite: ATEC 070 with minimum grade of C (may take concurrently), or equivalent. Course Advisory: SCC minimum English and Math standards. ATEC 131. Lecture, demonstration and practical lab experience in the 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. Prerequisite: ATEC070 or equivalent (may be taken concurrently). 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. *Two hours lecture, six hours lab.*

ATEC 136   **4.0 Units**
Automotive Manual Drivetrain and Axles
Prerequisite: ATEC 070 with a minimum grade of C (may be taken concurrently). Course Advisory: SCC minimum English and Math standards. A course covering 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. Prerequisite: ATEC070 or equivalent (may be taken concurrently). 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. *Two hours lecture, six hours lab.*

ATEC 140   **2.0 Units**
Hybrid Vehicle Maintenance and Repair
Course Advisory: SCC minimum English and Math standards with a minimum grad of C. Study of hybrid vehicles, safety issues associated with hybrid vehicles, maintenance and repair procedures specific to hybrid vehicles. *One hour lecture, three hours lab.*

Automotive

Automotive Body and Repair

(For additional listings see "Industrial Education" section of this catalog).

AUTB   100   **10.0 Units**
Fundaments of Auto Body Repair
Course Advisory: SCC minimum English standard. Acquaints the student with the basic skills and fundamental principles of auto body repair. Learned skills are verified through manipulative and written tests. *Five hours lecture, fifteen hours lab.*

AUTB   101   **10.0 Units**
Spray Paint Theory and Techniques
Prerequisite: AUTB 100. Course Advisory: SCC minimum English standard. Acquaints the student with the basic principles and techniques of automotive refinishing. Skills acquired are verified through manipulative projects and written tests. *Five hours lecture, fifteen hours lab.*

AUTB   102   **10.0 Units**
Automotive Body Panels and Frame Straightening
Prerequisite: AUTB 100. Students will learn to repair and replace body panels. Includes unibody and frame straightening. Learned skills are verified through manipulative projects and written exams. *Five hours lecture, fifteen hours lab.*

AUTB   103   **10.0 Units**
Advanced Auto Body Repair and Painting
Prerequisite: AUTB 101, 102. Students are exposed to the fine details of automotive body repair. Excellence and precision of skills are refined and quality work is emphasized. Students demonstrate their achievements through manipulative projects and written tests. *Five hours lecture, fifteen hours lab.*

AUTB   110   **3.0 Units**
Special Projects
Prerequisite: AUTB 103. Advanced projects undertaken by students in their field of specialization, under supervision of the instructor. *Two hours lecture, three hours lab.*

Biology

Biology A.S.

Program Description
The biology program emphasizes the relationship between structure and function of living systems and the concept that biological processes can be studied at different levels of organization. The program provides a balanced blend of mathematics, chemistry, physics and traditional and modern biology including the advanced topics essential to students continuing their studies at the university. Life is explored at the molecular, cellular, organismal and ecological levels.

Associate in Science Degree
The Associate in Science Degree can be obtained by completing the 46-50-unit major, the general education requirements, and electives for a total of 65-66 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 Biology Associate Degree 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 Principles of Cell and Molecular Biology 5
BIO 003 Evolution, Ecology & Biodiversity 5
CHEM 001 General Chemistry 5
AND
CHEM 002 General Chemistry 5
CHEM 003 Organic Chemistry I 5
AND
CHEM 004 Organic Chemistry II 5
MATH 030 Analytic Geometry and Calculus 3
AND
MATH 031 Analytic Geometry and Calculus 3
OR
MATH 020 Analytic Geometry and Calculus I 5
AND
MATH 021 Analytic Geometry and Calculus II 5

PHYS 002 General Physics (Non-Calculus) 5
AND
PHYS 004 General Physics (Non-Calculus) 5
OR
PHYS 006 Physics for Science and Engineering 5
AND
PHYS 007 Physics for Science and Engineering 5
    Total Units . . . . **46 – 50**

BIO 002   **5.0 Units**
Principles of Cell and Molecular Biology
Prerequisite: CHEM 001. Course Advisory: Eligibility for English 001. This course introduces biology majors to the basic concepts of cell and molecular biology and to the laboratory techniques used to study cells and biological molecules. Subjects include the structure and function of biological molecules, prokaryotic and eukaryotic cell structure and function, cell physiology and metabolism, Mendelian and molecular genetics, and the techniques used in biotechnology to manipulate DNA. *Three hours lecture, six hours lab.*

BIO 003   **5.0 Units**
Evolution, Ecology & Biodiversity
Prerequisite: MATH 104, BIO 002. Course Advisory: Eligibility for English 001. This course for biology majors covers evolution, ecology, and the diversity of life. The laboratory component includes invertebrate and vertebrate dissection and several weekend and all day field trips. Students must successfully complete both the lecture and the laboratory portions of the course. Fiel trips may be required. Some field trips may involve a fee. Formerly BIO 001. *Three hours lecture, six hours lab.*

Biology

BIO 004   **5.0 Units**
Human Anatomy

Course Advisory: Eligibility for English 001 and SCC minimum Math standard, BIO 016 is strongly recommended. BIO 004 is 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. C-ID BIOL 110B. *Three hours lecture, six hours lab.*

BIO 005   **5.0 Units**
Human Physiology

Prerequisite: A minimum grade of C in BIO 004 and CHEM 001 or CHEM 010 or CHEM 051 Course Advisory: SCC minimum English and Math standards. This course describes 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. *Three hours lecture, six hours lab.*

BIO 012   **3.0 Units**
Environmental Science

Course Advisory: Eligibility for English 001 and SCC minimum Math standard. This course examines the basic concepts of biology (especially ecology), chemistry, and physics to study: (1) human population growth, (2) short and long-term use of resources (such as soil, food, land, renewable and nonrenewable energy, water, and air), and (3) the production of pollution and other wastes. Field trips may be required. *Three hours lecture.*

BIO 012L   **1.5 Units**
Environmental Science Laboratory

Prerequisite: BIO 012 (may be taken concurrently) Course Advisory: Eligibility for English 001 and SCC minimum Math standard. A course that uses laboratory and mandatory field trip techniques to examine the ecological roles of organisms, resource use, and pollution/waste. Field trips may be required. *Three hours lab.*

BIO 014   **4.0 Units**
Principles of Microbiology

Prerequisite: Minimum grade of C in CHEM 051, CHEM 010, or CHEM 001 and a minimum grade of C in MATH 104 or MATH 114 or two years of high school alegbra. Course Advisory: SCC minimum English and Math standards. The study of the morphology, physiology, genetics, taxonomy, and ecology of microorganisms. The course also includes principles of immunology, the control of microbes, and their relationship to disease. Laboratory exercises cover microscopy, staining, aseptic techniques, identification, and microbial growth among others. *Three hours lecture, three hours lab.*

BIO 015   **4.0 Units**
Introduction to Biology

Course Advisory: Eligibility for English 001 and SCC minimum Math standard. A non-majors biology course that introduces basic concepts of living organisms including aspects of biological chemistry, cell structure and function, physiology, genetics, evolution, and ecology. Students must successfully complete both the lecture AND lab portions of the course. Off-campus field trips may be required and may involve a fee. NOTE: Not open for credit to students who have completed BIO 001, 002 or 012. *Three hours lecture, three hours lab.*

BIO 016   **3.0 Units**
Introduction to Human Biology

Course Advisory: SCC minimum English and Math standards. 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, 005, 010 or 015. *Three hours lecture.*

Biology

BIO   016L   **1.5 Units**
Human Biology Laboratory
Prerequisite: BIO 016 with a minimum grade of C (may be taken concurrently). Course Advisory: Eligibility for English 001 and SCC minimum Math standard
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. *One half-hour lecture, three hours lab.*

BIO   018   **3.0 Units**
Biology Of Sex
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. The biological bases of human sex and sexuality will be discussed. Emphasis will be placed on the normal and diseased state of the male and female reproductive system. Essay and objective exams as well as written assignments will be used for student evaluations; the final exam will be comprehensive. *Three hours lecture.*

BIO   019   **4.0 Units**
Marine Biology
Course Advisory: Eligibility for ENGL 001 and SCC minimum Math standard. 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. Students must successfully complete both the lecture and laboratory portions of the course. Field trips may be required. Some field trips may involve a fee. This course is not open for credit to students who have completed BIO 001 or 002 . *Three hours lecture, three hours lab.*

BIO   047   **0.5 to 3.0 Units**
Independent Study
Prerequisite: Minimum grade of C in 12 units of credit, including 4 units from within the discipline. Course Advisory: Eligibility for English 001; statistics may be useful for data analysis. 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. *One and one-half to nine hours by arrangement.*

BIO   048
Special Topics in Biology
These courses, numbered 048, 098, or 148 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

BIO   049   **1.0 to 3.0 Units**
Biology Honors
Prerequisite: Eligibility for Honors Program; BIO 001, BIO 002, BIO 005, BIO 014, or BIO 015 (any of these courses may be taken concurrently). Requires approval of a faculty member sponsor and the Dean of the School of Science and Mathematics. Course Advisory: Eligibility for English 001. 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. *Three to nine hours by arrangement.*

BIO   099   **0.5 to 2.0 Units**
Biology Honors: Special Dissection
Prerequisite: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in BIO 004 with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability. 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 units. *One and one-half to six hours by arrangement.*

BIO   160   **2.5 Units**
Review of Scientific Principles of Pre-Nursing
Prerequisite: CONDITION OF ENROLLMENT: Current acceptance or on the waiting list of an RN Program. This course focuses on science and mathematics topics that are critical to success for students entering an RN program. It provides a clinically pertinent review of select anatomy, physiology, nutrition,and microbiology 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. 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. *Ten hours lecture. (4-week course).*

Biotechnology

Industrial Biotechnology

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 pharmaceutical 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.

Certificate of Achievement and Associate in Science Degree
The Certificate of Achievement can be obtained upon completion of the 22-24-unit major with a grade of C (2.0) or better in each course. The Associate in Science Degree can be obtained upon completion of 60 units, including the major, general education requirements and electives. 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 Industrial Biotechnology Certificate of Achievement/Associate Degree will be able to:
1. Understand 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.

REQUIRED COURSES . . . . **Units**
BIOT 051 Principles of Biotechnology 3
BIOT 052 Business and Regulatory
           Practices in Biotechnology 3
BIOT 062 Cell Culture and Protein Recovery 4
BIOT 063 Biotechnology Instrumentation:
          Quality Control & Genetic Engineering 4
BIO 014 Principles of Microbiology 4
OR
BIO 002 Principles of Cell and Molecular Biology 5
CHEM 010 Intermediate Chemistry 4
OR
CHEM 001 General Chemistry 5
    Total Units . . . . 22 – 24

NOTE: Prior knowledge and use of computers is advised, including word processing, spreadsheets, and databases.

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Industrial Biotechnology."

Biotechnology

Applied Biotechnology

Certificate of Achievement
A Certificate of Achievement can be obtained by completion of the 18-unit major with a grade of C or better or a P if the course is taken on a Pass/No Pass basis in each course.

Program Outcomes
Students who complete the Applied Biotechnology Certificate of Achievement will be able to:
1. Understand 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.

REQUIRED COURSES . . . . **Units**
BIOT 051 Principles of Biotechnology 3
BIOT 052 Business and Regulatory
       Practices in Biotechnology 3
BIOT 062 Cell Culture and Protein Recovery 4
BIOT 063 Biotechnology Instrumentation:
       Quality Control & Genetic Engineering 4
BIOT 160 Basic Concepts/Methods in Biotechnology . . . 4
Total Units **18**

Note: Prior knowledge and use of computers is advised, including word processing, spreadsheets, and databases.

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Applied Biotechnology."

BIOT 051   **3.0 Units**
Principles of Biotechnology
Prerequisite: BIO 014 or BIO 002 or BIOT 160. Course Advisory: Eligibility for English 001 and SCC minimum Math standard. This course covers 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. *Three hours lecture.*

BIOT 052   **3.0 Units**
Business And Regulatory Practices In Biotechnology
Course Advisory: Eligibility for ENGL 001 and SCC minimum Math standard. Examines how basic business principles and sound manufacturing procedures assure the quality and safety of a product as the manufacturing team moves a product down the biotechnology production pipeline. It explores the role of governmental oversight and regulation during the discovery, development, and manufacturing of new products produced by biotechnology. *Three hours lecture.*

Biotechnology

BIOT   062   **4.0 Units**
Cell Culture And Protein Recovery
Prerequisite: BIO 014 or BIO 002 or BIOT 160. Course Advisory: Eligibility for English 001. 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). *Two hours lecture, six hours lab.*

BIOT   063   **4.0 Units**
Biotechnology Instrumentation:
Quality Control & Genetic Engineering
Prerequisite: BIO 014 or BIO 002 or BIOT 160. Course Advisory: Eligibility for English 001. 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. *Two hours lecture, six hours lab.*

BIOT   160   **4.0 Units**
Basic Concepts/Methods in Biotechnology
Course Advisory: MATH 330; SCC minimum English standard with a minimum grade of C. This course is not designed for students intending to transfer. 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. *Two hours lecture, six hours lab.*

Business

Associate in Science in Business Administration for Transfer

Program Description
This curriculum is designed to provide an opportunity for Business majors to achieve an associate in science degree in business administration while completing the requirements for transfer to a California State University (CSU) or other four-year college or university. A baccalaureate degree is recommended preparation for those considering careers in business. Completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for upper-division work.

Associate in Science in Business Administration for Transfer
A Solano College student who has earned the associate in science degree in business administration for transfer will be granted priority admission to the CSU into a similar (BA) degree program as long as the student meets all prescribed admission requirements. Once admitted the student will only be required to complete 60 additional upper-division units to qualify for the similar BA degree. The A.S.-T degree does not guarantee admission to a specified major or campus, but does require the California State University to grant a student priority admission consideration to a CSU campus and to a major that is similar to the transfer degree.

To earn the Associate in Arts in Business for Transfer degree, 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 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 Science in Business Administration for Transfer degree 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 005 Introduction to Business 3
BUS 018 Legal Environment of Business 3
CIS 050 Microcomputer Applications 3
ECON 001 Principles of Economics (Macroeconomics) . . 3
ECON 002 Principles of Economics (Microeconomics) . . 3
MATH 011 Elementary Statistics 4

Required Major Total Units. **27**
CSU General Education
   or IGETC Pattern Units. . . . . **37 - 39**
CSU Transferable Electives
   (as needed to reach 60 transferable units)* . . . . **3 - 5**
Total Degree Units. **60**

* *9 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.*

Business

Business, General (Transfer)

Program Description
This program is designed for business students planning to transfer to the University of California and/or the California State University systems.

Certificate of Achievement
A Certificate of Achievement can be obtained by completing the 26-unit major with a grade of "C" or better in each course or a P if taken on a Pass/No Pass basis.

Program Outcomes
Students who complete the Business, General Certificate of Achievement will be able to:
1. Recognize the importance marketing, legal, economics, accounting, business forms, financing, risk, and personnel management is 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
ECON 002 Principles of Economics (Microeconomics) . . 3
Elective(s) selected from the recommended electives. . . . 3
    Total Units 26

Recommended Electives
(Select three 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 5
MATH 021 Analytic Geometry and Calculus II. 5
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 general education math courses for the Business, General (Transfer) major are MATH 011 (Statistics) OR MATH 030 (Analytical Geometry and Calculus). Students should consult a counselor regarding Business Articulation Agreements.

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Business, General: Transfer."

Business

Business-Insurance: Property & Casualty

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.

Certificate of Achievement and Associate in Science Degree
A Certificate of Achievement can be obtained by completing the 31-unit major below. The Associate in Science Degree can be obtained upon completion of 60 units, including the major, and the general education requirements and electives. 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 Business-Insurance: Property & Casualty Certificate of Achievement/Associate Degree 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
    Total Units 31

Recommended Electives
MKT 171 Introduction to Marketing
MKT 173 Principles of Selling

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Business Insurance: Property & Casualty."

Insurance Specialist Job-Direct Certificate
All courses must be completed with a C or better

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

Business

Many courses formerly listed under the Business discipline appear under the disciplines "Accounting," "Management," "Marketing," or "Office Technology."

BUS   005   3.0 Units
Introduction To Business
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. A comprehensive study and analysis of the principles of business. 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 and interrelate. 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. Assigned readings, class participation, written homework, and written examinations are required. *Three hours lecture.*

BUS   018   3.0 Units
Legal Environment Of Business
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. A comprehensive 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. C-ID BUS 120. *Three hours lecture.*

BUS   060   3.0 Units
Introduction To International Business
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. A comprehensive 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. *Three hours lecture.*

BUS   070   1.0 Unit
Introduction To Insurance
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. 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. *Three hours lecture (6-week course).*

BUS   071   3.0 Units
Principles Of Property And Liability Insurance
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. One of five insurance courses that are designed to prepare 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. *Three hours lecture.*

BUS   072   3.0 Units
Personal Insurance
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. Assists individuals in learning basic information regarding personal insurance. It includes information about automobile insurance; homeowners' insurance; other residential insurance, such as fire and earthquake insurance; marine insurance; and other personal property. *Three hours lecture.*

BUS   073   3.0 Units
Commercial Insurance
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. One of five insurance courses designed to prepare students for employment in the insurance industry. Emphasis for this course is on commerical insurance. The insurance industry offers many different types of employment opportunities, from selling insurance to working in an insurance office. *Three hours lecture.*

Business

BUS   074   **1.0 Unit**
Insurance-Code & Ethics
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. Designed to enable students to understand and apply proper ethical business behavior and obligations, especially as they relate to those working in the field of insurance. *Three hours lecture (6-week course).*

BUS   092   **3.0 Units**
Business Communication
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. A study of communication theory in the planning and preparation of various types of letters, reports, resumes, and oral presentations along with analysis of group dynamics, symbolic communication, interview techniques and listening skills. Stresses audience analysis, style, appearance, and the importance of grammar, punctuation and vocabulary. Strong focus on gender and cultural communication issues and strategies in the workplace. Critical thinking encouraged through written and oral assignments and case studies on business communication and ethical issues. *Three hours lecture.*

BUS   099   **1.0 Unit**
Business Honors
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. A comprehensive study and analysis of a topic of student scholarship which is centered on important topics or issues within the business field. *Three to nine hours by arrangement.*

BUS   100   **1.5 Units**
Work Readiness
Course Advisory: SCC minimum English and Math standards. Covers the process of assessing the job market and completing a resume and application. Topics include how to be successful on the job and to gain satisfaction and rewards from work. The skills needed in the workplace are emphasized along with the social and communication skills, personal characteristics and habits, and expectations of the employer. *Three hours lecture (8-week course).*

BUS   148A   **3.0 Units**
Small Business Project-Based Path for Entrepreneurs
Course Advisory: SCC minimum English and Math standards. This course 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. *Three hours lecture.*

BUS   181   **1.0 to 3.0 Units**
Business Mathematics
Course Advisory: SCC minimum English standard. This course requires students to apply 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. This is an Open Entry/Open Exit, Variable unit course; Online course is not Open Entry/Open Exit. *One to three hour(s) lecture.*

BUS   182   **1.0 Unit**
Small Business Mathematics
Course Advisory: SCC minimum English and Math standards. This course requires students to apply 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. *One hour lecture.*

BUS   208   **0.5 Unit**
Employee Relations And Personnel Policies
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. *Eight hours lecture (2-week course).*

Chemistry

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.

Associate in Science Degree
The Associate in Science Degree can be obtained by completing 60 units, including the 26-30-unit major listed below, general education requirements, and electives. 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 Chemistry Associate Degree will be able to:
1. Interpret and analyze chemical data.
2. Apply chemical bonding knowledge to structural analysis.
3. Construct balanced equations for chemical reactions.
4. Develop various lab techniques.
5. Formulate and write names for chemical compounds.
6. Analyze chemical problems.

REQUIRED COURSES . . . . **Units**
CHEM 001 General Chemistry 5
AND
CHEM 002 General Chemistry 5
CHEM 003 Organic Chemistry I 5
AND
CHEM 004 Organic Chemistry II 5
BIO (any course except 048 or 098) . . . . 3 - 5
PHYS 002 General Physics (Non-calculus) 5
OR
PHYS 006 Physics for Science and Engineering 5
OR
PHYS 010 Descriptive Physics 3
   Total Units . . . . 26 – 30

CHEM 001   **5.0 Units**
General Chemistry
Prerequisite: A minimum grade of C in any of the following: MATH 104 or two years of high school algebra AND a minimum grade of C in one of the following: CHEM 160 OR one year of high school chemistry. Course Advisory: Eligibility for English 001 and CHEM 010 is strongly recommended for students who need additional preparation in problem solving. 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. Field trips may be required. Some online work may be required. *Three hours lecture, six hours lab.*

CHEM 002   **5.0 Units**
General Chemistry
Prerequisite: CHEM 001 with a gminimum grade of C. Course Advisory: Eligibility for English 001. A continuation of chemical principles and theory covered in CHEM 001 with emphasis on electrochemistry, chemical equilibrium, and quantitative and qualitative analysis. Field trips may be required. Online work may be required. *Three hours lecture, six hours lab.*

Chemistry

CHEM 003   **5.0 Units**
Organic Chemistry I
Prerequisite: CHEM 002 with a minimum grade of C.
Course Advisory: English 001 is strongly recommended.
First half of a two semester course (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. Basic
organic laboratory procedures are introduced along
with spectral analysis, simple syntheses, and reactions
described in lecture. Field trip may be required. Online
homework may be required. *Four hours lecture, four
hours lab.*

CHEM 004   **5.0 Units**
Organic Chemistry II
Prerequisite: CHEM 003 with a minimum grade of C.
Course Advisory: Eligibility for English 001. A
continuation of CHEM 003, topics include analysis of
structure, nomenclature, and reaction mechanisms of
conjugated systems, aromatics, organometallics,
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 may be required. *Four hours lecture, four
hours lab.*

CHEM 010   **4.0 Units**
Intermediate Chemistry
*Prerequisite: CHEM 160 with a minimum grade of C, or
two semesters of high school chemistry, and a minimum
grade of C in MATH 104 or MATH 114 or two years of
high school algebra. Course Advisory: Eligibility for English
001.* 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. *Three hours lecture, three
hours lab.*

CHEM 011   **4.0 Units**
Basic Organic Chemistry & Biochemistry
*Prerequisite: CHEM 010 or CHEM 001 with a minimum
grade of C. Course Advisory: Eligibility for English 001.*
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. *Three hours
lecture, three hours lab.*

CHEM 051   **5.0 Units**
Chemistry for the Health Sciences
*Prerequisite: CHEM 160 with a minimum grade of C, or
two semesters of high school chemistry, and a minimum
grade of C in MATH 104 or MATH 114 or the equivalent or
two years of high school algebra. Course Advisory:
Eligibility for English 001.* This course presents 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, functinal 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 prerequiste 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. *Three hours lecture, three hours
lab.*

CHEM 098
Special Topics
These courses, numbered 048, 098, or 148 depending
upon their transferability, are courses of contemporary
interest centered on changing knowledge and
important issues in the field. Announcement of Special
Topics courses appears in the Schedule of Classes.

CHEM 160   **4.0 Units**
Introductory Chemistry
*Prerequisite: A minimum grade of C in any of the following:
MATH 104 or MATH 114 or two years of high school
algebra. Course Advisory: SCC minimum English standard.*
An introductory course covering 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. *Three hours lecture, three
hours lab.*

Child Development and Family Studies

(Formerly Early Childhood Education and Human Development)

Early Childhood Education

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 ease 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.

Certificate of Achievement and Associate in Science Degree
A Certificate of Achievement can be obtained upon successful completion of the 35-unit major with a grade of C (2.0) or better in each course. The Associate in Science degree can be obtained by completing the 35-unit major, the general education requirements (Solano College, CSU or IGETC), and electives.

Program Outcomes
Students who complete the Early Childhood Education Certificate of Achievement/Associate Degree 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. Demonstrate an understanding of the context of individual development including the centrality of family, culture, and community. Students will develop specific 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
Full-time students are advised to enroll in CDFS 038, CDFS 050, CDFS 062, and a required curriculum course (CDFS 071, 072, or 073) 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 071, 072, 073, or 074). 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.

	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 064 Observation and Assessment	3
CDFS 065 Early Childhood Education Practicum I	4
CDFS 066 Early Childhood Education Practicum II	4
Two courses from the required list	6
Total Units	**35**

Two courses (6 units) from the following list are required:

	Units
CDFS 071 Language and Literature for ECE	3
CDFS 072 Art and Creative Development for ECE	3
CDFS 073 Music and Movement for ECE	3
CDFS 074 Science and Math for ECE	3

Recommended Electives
CDFS 040 Family Relationships
CDFS 052 Children with Special Needs
CDFS 055 Impact of Violence on Children and their Families
CDFS 056 Intervention and Strategies for Working with
          Children with Challenging Behaviors
CDFS 071 Language and Literature for ECE
CDFS 072 Art and Creative Development for ECE
CDFS 073 Music and Movement for ECE
CDFS 074 Science and Math for ECE
CDFS 075 Care of Infants and Toddlers: Social-Emotional
          Foundation
CDFS 076 Care of Infants and Toddlers: Curriculum and
          Environments
CDFS 080 Early Childhood Administration
CDFS 081 Early Childhood Staff Supervision
CDFS 082 Adult Supervision: The Mentor Teacher
NUTR 010 Nutrition
SOC 001 Introduction to Sociology
HS 051 Introduction to Human Services
HS 053 Serving Special Populations

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Early Childhood Education."

Child Development and Family Studies

Associate in Science in Early Childhood Education for Transfer

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.

Associate in Science in Early Childhood Education for Transfer

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 an Associate in Science in Early Childhood Education 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 does accept the Associate in Science in Early Childhood Education 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 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 Degree, 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 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 Science in Early Childhood Education for Transfer degree 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

The following 25 CDFS units are required for the Early Childhood Education for transfer degree. Some 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 student will be required to pass a criminal record check and be fingerprinted at the District's expense.

	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

	Units
Required Major Total Units	25
CSU General Education or IGETC Pattern Units	37 - 39
CSU Transferable Electives (as needed to reach 60 transferable units)*	2 - 5
Total Degree Units	60

6 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.

Child Development and Family Studies

CDFS   038   3.0 Units
Child Growth and Development
Course Advisory: Eligibility for English 001. This course examines the major physical, cognitive, and psychosocial developmental milestones (typical and atypical) and theories from conception through adolescence. Emphasis is placed on the interaction bewtween maturational processes and environmental factors. Current research and methodologies are examined. Child observations and analysis are included. Field trip may be required. Field trip may be required. Formerly HUDV 038. C-ID CDEV 100. *Three hours lecture.*

CDFS   039   3.0 Units
School Years and Adolescent Development
Course Advisory: Eligibility for English 001. Development and maturation of the school-age child and the adolescent; the interrelationship of physical, mental, social, and emotional factors will be discussed along with a survey of community resources. Formerly HUDV 039. *Three hours lecture.*

CDFS   040   3.0 Units
Family Relationships
Course Advisory: Eligibility for English 001. 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. Formerly HUDV 040. *Three hours lecture.*

CDFS   050   3.0 Units
Child, Family, Community
Course Advisory: Eligibility for English 001. An examination of the devloping 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 startegies for building respectful, reciprocal relationships that support and empower children and families. Formerly HUDV 050. C-ID CDEV 110. *Three hours lecture.*

CDFS   052   3.0 Units
Children with Special Needs
Prerequisite: CDFS 038. Course Advisory: Eligibility for English 001. 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. Formerly HUDV 075. *Three hours lecture.*

CDFS   053   3.0 Units
Teaching in a Diverse Society
Course Advisory: Eligibility for English 001. 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. Formerly HUDV 053. C-ID ECE 230. *Three hours lecture.*

CDFS   054   3.0 Units
Child Health, Safety, and Nutrition
Course Advisory: Eligibility for English 001, CDFS 038 and CDFS 062. 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. C-ID ECE 220. *Three hours lecture.*

CDFS   055   3.0 Units
Impact of Violence on Children and their Families
Course Advisory: SCC minimum English standards. Exploration of violence in America and its impact on the physical and psychological well-being of children, their families and early childhood teachers. Emphasis on critical factors in understanding appropriate early childhood violence prevention and intervention strategies. Formerly ECE 050. *Three hours lecture.*

Child Development and Family Studies

CDFS 056   **3.0 Units**
Intervention and Strategies for Working with Children with Challenging Behaviors
Course Advisory: SCC minimum English standards. Provides early childhood teachers knowledge and skills to respond to the needs of children and families who experience stress and chronic violence through exploration of the power of play in helping children resolve conflicts and methods for teaching alternative to violence. Formerly ECE 051. *Three hours lecture.*

CDFS 062   **3.0 Units**
Introduction to Early Childhood Education: Principles and Practices
Prerequisite: CDFS 038 (may be taken concurrently). Course Advisoriy: Eligibility for English 001. An examination of the underlying theoretical principles of developmentally appropiate 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 indentity. Formerly ECE 062. C-ID ECE 120. *Three hours lecture.*

CDFS 063   **3.0 Units**
Introduction to Curriculum
Prerequisite: Minimum grade of C in both CDFS 038 and CDFS 062. Course Advisory: Eligibility for English 001. This course presents an overview of knowledge and skills related to providing appropiate 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 appropiate 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. Formerly ECE 063. C-ID ECE 130. *Three hours lecture.*

CDFS 064   **3.0 Units**
Observation and Assessment
Course Advisory: CDFS 038; Eligibility for ENGL 001. This course focuses 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. Formerly ECE 064. C-ID ECE 200. *Three hours lecture.*

CDFS 065   **4.0 Units**
Early Childhood Education Practicum I
Prerequisite: Minimum grade of C in CDFS 050 and CDFS 063 Course Advisory: Eligibility for ENGL 001. Supervised laboratory experience with infants through preschool children in the Solano College Children's Programs. 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 comphrehensive 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 students teachers design, implement and evalute 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. Formerly ECE 065. C-ID ECE 210. *One hour lecture, nine hours by arrangement.*

Child Development and Family Studies

CDFS 066   **4.0 Units**
Early Childhood Education Practicum II
Prerequisite: CDFS 065 with a minimum grade of C.
Course Advisory: Eligibility for English 001. Laboratory practicum emphasizing curriculum activities, comphrehensive 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. Formerly ECE 066. *One hour lecture, nine hours by arrangement.*

CDFS 070   **3.0 Units**
Lifespan Human Development
Course Advisory: Eligibility for English 001. A survey of human development throughout the life cycle, including physical, social, intellectual, and emotional development from conception to death. Includes direct observation. Note: Not open for credit to students who have successfully completed HUDV 038/039 or CDFS 038/039. Formerly HUDV 070. *Three hours lecture.*

CDFS 071   **3.0 Units**
Language and Literature for ECE
Course Advisory: Eligibility for English 001 and CDFS 038. An introduction to children's literature and to the development of speech and language during early childhood. Students will explore teaching techniques which promote language acquisition including teacher-child interaction, story telling, puppetry, language games, flannel board stories, journaling, and the development of dramatic play materials. Culturally inclusive practices will be emphasized. Formerly ECE 071. *Three hours lecture.*

CDFS 072   **3.0 Units**
Art and Creative Development for ECE
Course Advisory: SCC minimum English and Math standards; CDFS 038. A study of art activities appropriate to the developmental needs of the young child. Emphasis is on children's use of art as a way to express their individuality and communicate their ideas about themselves and their world. Formerly ECE 072. *Three hours lecture.*

CDFS 073   **3.0 Units**
Music and Movement for ECE
Course Advisory: CDFS 038; Eligibility for English 001. Presents a curriculum of music appropriate for teachers of young children from infancy through the primary grades. Fundamentals of music and simple chording techniques will be introduced. Formerly ECE 073. Field trip may be required. *Three hours lecture.*

CDFS 074   **3.0 Units**
Science and Math for ECE
Prerequisite: CDFS 062 and CDFS 038 (may be taken concurrently). Course Advisory: Eligibility for English 001 and SCC minimum Math standards. An exploration of scientific principles, materials, and information from the biological and physical sciences appropriate for young children. Through an emphasis on the choice and presentation of appropriate concepts and processes, students acquire basic science knowledge relevant to the intellectual development of the young child. Formerly ECE 070. Field trip may be required. *Three hours lecture.*

CDFS 075   **3.0 Units**
Care of Infants and Toddlers:
Social-Emotional Foundations
Course Advisory: Eligibility for English 001. This course examines relationship-based infant/toddler group care, with an emphasis on social-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. Formerly ECE 075. *Three hours lecture.*

Child Development and Family Studies

CDFS   076   **3.0 Units**
Care of Infants and Toddlers:
Curriculum and Environments
Course Advisory: Eligibility for English 001. 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/emotional experiences in group care. Formerly ECE 076. *Three hours lecture.*

CDFS   080   **3.0 Units**
Early Childhood Administration
Prerequisite: Minimum grade of C in both CDFS 038 and CDFS 062. Course Advisory: Eligibility for English 001. 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. Formerly ECE 080. *Three hours lecture.*

CDFS   081   **3.0 Units**
Early Childhood Staff Supervision
Prerequisite: Minimum grade of C in each CDFS 038, CDFS 050, and CDFS 062. Course Advisory: Eligibility for English 001. 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. Formerly ECE 081. *Three hours lecture.*

CDFS   082   **2.0 Units**
Adult Supervision: The Mentor Teacher
Prerequisite: Minimum grade of C in each CDFS 038, CDFS 050, and CDFS 062. Course Advisory: Eligibility for English 001. 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. Formerly ECE 079. *Two and three-quarters hours lecture (12-week course).*

CDFS   099   **1.0 Unit**
Early Childhood Education Honors
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. Course Advisory: Eligibility for ENGL 001. 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. Formerly ECE 099. *Three to nine hours by arrangement.*

CDFS   101   **0.5 Unit**
Sensitive and Critical Topics in
Early Childhood Education
Course Advisory: SCC minimum English standard. A short course designed to include current topics in Child Development or Family Studies that are particularly sensitive in nature and/or subject to critical timing. It is designed especially as an update for teachers currently working in the field. Formerly ECE 101. *Eight hours lecture. (One day course).*

CDFS   102   **0.5 Unit**
Curriculum Development
Course Advisory: SCC minimum English standards. Curriculum development techniques for young children in early childhood education programs in the areas of speech development, pre-reading skills, math concepts, science activities, music, art, cooking and nutrition. Emphasis in the above curriculum areas will be placed on the specialized needs of disadvantaged children. Formerly ECE 102. *Eight hours lecture (1-week course).*

Child Development and Family Studies

CDFS   105   **0.5 Unit**
Parenting in a Stress World
Course Advisory: SCC minimum English and Math standards. This course is primarily designed for parents of young children (birth-five years). The course includes an overview of child development principles and an exploration of the role of parents in supporting the development of their children. The course will provide opportunities to explore and reflect on parenting in a stressful world and create a parent community. Discussions and assignments will relate directly to the participants interactions with young children. Formerly ECE 105. *One hour lecture (8-week course).*

CDFS   501   **.0 Units**
Early Childhood Education Children's Program
Course Advisory: SCC minimum English standard. Provides the opportunity for parents to become more involved with their child(ren)'s education, to gain the positive interaction skills appropriate for this age group, and to gain information about the normal behavior of preschool aged children. Expected of parents whose children are enrolled in the Solano Community College Children's Programs. Formerly ECE 501. *One hour by arrangement.*

Communication Studies

Associate in Arts in Communication Studies for Transfer

Program Description
The Communication Studies 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.

Associate in Arts Degree for Transfer
The Associate in Arts for Transfer (AA-T) in Communication Studies is especially appropriate for students who plan to complete a bachelor's degree in Communication Studies at a CSU campus. Students completing this degree (AA-T in Communication Studies) 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 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 for Transfer degree, 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 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 Communication Studies for Transfer Degree 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 a multiple contexts.
4. Communicate utilizing a variety of performance methods.

REQUIRED COURSES . . . . Units
COMM 001 Introduction to Public Speaking 3
Choose two (2) courses (6 units) from List A 6
Choose two (2) courses (6 units) from List B 6
Choose one (1) course (3 units) from List C 3

List A – Choose any two (2) of the following courses (6 units):
COMM 006 Argumentation and Debate 3
COMM 010 Interpersonal Communication 3
COMM 008 Group Communication 3

List B – Choose any two (2) of the following (6 units):
COMM 002 Fundamentals of Persuasive Speaking 3
COMM 012 Intercultural Communication 3
COMM 015 Oral Interpretation of Literature 3
COMM 050 Forensics/Speech Workshop 1-4
COMM 060 Business and Professional Communication . 3
Any List A course not used above 3

List C – Choose one (1) of the following (3 units):
COMM 075 Sports Broadcasting 3
ANTH 002 Cultural Anthropology 3
PSYC 001 Introduction to Psychology 3
SOC 001 Introduction to Sociology 3
Any List A or List B course not used above 3

Recommended Electives
ENGL 002 Critical Thinking and Writing About Literature
ENGL 004 Critical Thinking and Composition: Language
       in Context
JOUR 001 Newswriting and Reporting
JOUR 011 Introduction to Mass Communication
PHIL 001 Introduction to Critical Thinking and Reasoning
THEA 001 Acting 1

Required Major Total Units. 18
CSU General Education or IGETC Pattern Units . 37 - 39
CSU Transferable Electives
(as needed to reach 60 transferable units)* . . . . 9 - 11
Total Degree Units. 60

* *6 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.*

Communication Studies

COMM 001   **3.0 Units**
Introduction to Public Speaking
Course Advisory: Eligibility for English 001. 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. *Three hours lecture.*

COMM 002   **3.0 Units**
Fundamentals of Persuasive Speaking
Course Advisory: Eligibility for ENGL 001. A persuasive speaking course which includes 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. Formerly SPCH 002. C-ID COMM 190. *Three hours lecture.*

COMM 006   **3.0 Units**
Argumentation and Debate
Course Advisory: Eligibility for ENGL 001. A public speaking course which includes 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. Formerly SPCH 006. *Three hours lecture.*

COMM 008   **3.0 Units**
Group Communication
Course Advisory: SCC minimum English standard. This course is designed to increase 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 designed 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. Formerly SPCH 008. *Three hours lecture.*

COMM 010   **3.0 Units**
Interpersonal Communications
Course Advisory: Eligibility for English 001. Communication principles as applied to different interpersonal communication situations including verbal and non-verbal communication, listening, overcoming barriers to communication, and conflict resolution. Formerly SPCH 010. *Three hours lecture.*

COMM 012   **3.0 Units**
Intercultural Communication
Course Advisory: SCC minimum English standard. This course introduces students 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. Formerly SPCH 012. C-ID COMM 150. *Three hours lab.*

COMM 015   **3.0 Units**
Oral Interpretation of Literature
Course Advisory: Eligibility for English 001. 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. Formerly SPCH 015. C-ID COMM 170. *Three hours lecture.*

Communication Studies

COMM 049   **1.0 to 3.0 Units**
Speech Honors
Prerequisite: Completion of 30 or more units of transferable college credit including 6 units of transferable speech; ENGL 001 with a minimum grade of B; an ability to work independently; and permission of the School Dean based on instructor availability. An independent study program designed for students who have completed the available Speech 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. Formerly SPCH 049. *Three to nine hours by arrangement.*

COMM 050   **1.0 to 4.0 Units**
Forensics/Speech Workshop
Course Advisory: Eligibility for English 001. Provides training in the principles of all forms of competitive speaking, oral interpretation and debate, including participation in intercollegiate competition 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. Formerly SPCH 050. Repeatable 3 times. C-ID COMM 160B. *One hour lecture, zero to nine hours lab.*

COMM 060   **3.0 Units**
Business and Professional Communication
Course Advisory: Eligibility for English 001. 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 giving and receiving the 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. Formerly SPCH 060. *Three hours lecture.*

COMM 075A   **3.0 Units**
Sports Broadcasting - Fall Sports
Course Advisory: Eligibility for English 001. 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 requirede to attend weekly athletic events to fulfill activity hours. Events typically on TWRF. *One and one-half hours lecture, four and one-half hours lab.*

COMM 075B   **3.0 Units**
Sports Broadcasting - Spring Sports
Course Advisory: Eligibility for English 001. 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. *One and one-half hour lecture, four and one-half hours lab.*

Communication Studies

COMM 080A   **3.0 Units**
TV Sports Production - Fall Sports
Course Advisory: Eligibility for English 001. Offers 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. *One and one-half hour lecture, four and one-half hours lab.*

COMM 080B   **3.0 Units**
TV Sports Production - Spring Sports
Course Advisory: Eligibility for English 001. Offers 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. *One and one-half hours lecture, four and one-half hours lab.*

Computer Information Science

Computer Programming

Program Description
This program is designed to prepare the student for employment as a computer programmer trainee.

Certificate of Achievement and Associate in Science Degree
A Certificate of Achievement can be obtained upon completion of the 33-unit major listed below. The Associate in Science Degree may be obtained by completing a total of 60 units, including the major, general education requirements, and electives. 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 Computer Programming Certificate of Achievement/Associate Degree 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.

Not all courses are offered every semester, and the sequence of courses listed below is recommended, not required.

REQUIRED COURSES . . . . **Units**
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
      (UNIX OPERATING SYST). 3
CIS 020 Assembly Programming 3
Elective(s) selected from the Recommended Electives. . . 3
    Total Units **33**

Select three (3) units from the following Recommended Electives: . . . . **Units**
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 068 Object Oriented Game
        Programming with Flash 3
CIS 073 Microsoft Excel 3
CIS 080 SQL Database Management Systems 3
ACCT 001 Principles of Accounting - Financial 4
ACCT 002 Principles of Accounting – Managerial 4
BUS 005 Introduction to Business 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.

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Computer & Info Science: Computer Programming."

Computer Information Science

Microcomputer Applications

Program Description
This option is designed to prepare the student for employment as a microcomputer applications specialist.

Certificate of Achievement and Associate of Science Degree
A Certificate of Achievement can be obtained upon completion of the 30-unit major listed below. The Associate in Science Degree may be obtained by completing a total of 60 units, including the major, general education requirements, and electives. 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 Microcomputer Applications Certificate of Achievement/Associate Degree 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. Effective oral and written communication.

REQUIRED COURSES . . . . **Units**
BUS 092 Business Communication 3
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
  Total Units **30**

Recommended Electives
CIS 020 Assembly Programming
CIS 022 Introduction to Programming
CIS 035 Introduction to Java Programming
CIS 060 Introduction to the Internet
CIS 066 Microsoft Word
CIS 080 SQL Database Management Systems
CIS 093 MS Publisher
ACCT 001 Principles of Accounting – Financial
ACCT 002 Principles of Accounting - Managerial
BUS 005 Introduction to Business
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Computer & Info Science: Microcomputer Applications."

Computer Information Science

Web Development and Administration

Program Description
This specialty is designed to prepare the student for employment as a web site administrator and developer.

Certificate of Achievement and Associate in Science Degree
A Certificate of Achievement can be obtained upon completion of the 33-unit major listed below. The Associate in Science Degree may be obtained by completing a total of 60 units, including the major, general education requirements, and electives. 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 Web Development and Administration Certificate of Achievement/Associate Degree will be able to:
1. Properly use design elements and an html editor in creating web pages.
2. Describe and explain the use of a database in a website utilizing input forms, queries, and data base results.
3. Develop a project incorporating CSS, search forms, tables, photo galleries, shared borders, themes, interactive components, dynamic web pages and publish to a web site

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 072 Extensible Markup Language (XML)	1.5
CIS 075 Client-Side Web Programming	3
CIS 080 SQL Database Management Systems	3
CIS 081 Server-Side Web Programming	3
CIS 083 Web Server Administration	3
CIS 089 Essential Networking Technologies	3
CIS 111 Web Design with Cascading Style Sheets	1.5
Elective(s) selected from the Recommended Electives	3
Total Units	**33**

Recommended Electives (Select three units)

	Units
CIS 015 Programming in Visual Basic.NET	3
CIS 022 Introduction to Programming	3
CIS 023 Data Structures and Algorithms	3
CIS 035 Introduction to Java Programming	3
CIS 068 Object Oriented Game Programming with Flash	3
CIS 078 Access -Database Management System	3
CIS 120 Developing XML Web Services	1.5
CIS 121 PHP Programming with MySQL	3

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Web Development & Administration."

Microsoft Office Master Job-Direct Certificate

The required courses must be completed with a grade of C or better.

REQUIRED COURSES	Units
CIS 066 Microsoft Word	3
CIS 073 Microsoft Excel	3
CIS 090 Introduction to PowerPoint	1.5
CIS 093 MS Publisher	1.5
Total Units	**9**

Microsoft Office Specialist Job-Direct Certificate

The required courses must be completed with a grade of C or better.

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
CIS 093 MS Publisher	1.5
Total Units	**13.5**

Computer Information Science

Database Specialist Job-Direct Certificate

The required courses must be completed with a grade C or better.

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**

Web Developer Job-Direct Certificate

The required courses must be completed with a grade of C or better.

REQUIRED COURSES . . . . **Units**
CIS 001 Introduction to Computer Science. 3
CIS 061 Creating Web Pages 3
CIS 069 Multimedia for the Web 3
CIS 072 Extensible Markup Language (XML). 1.5
CIS 075 Client-Side Web Programming 3
CIS 081 Server-Side Web Programming 3
   Total Units **16.5**

Computer Applications Specialist Job-Direct Certificate

The required courses must be completed with a grade of C or better.

REQUIRED COURSES . . . . **Units**
BUS 100 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**

Web Programmer Job-Direct Certificate

The required courses must be completed with a grade of C or better.

Program Outcomes
Students who complete the Job Direct Certificate will be able to:
   1. Use design elements and an html editor in creating web pages.
   2. Use visual basic to develop forms, tables, database, database queries, and reports.
   3. Develop and publish to a web site a project incorporating Java programming for popups and client sided programming, dynamic web pages.

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**

Computer Information Science

CIS   001   3.0 Units
Introduction To Computer Science
Course Advisory: SCC minimum English and Math standards; keyboarding 30 wpm. 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 the Visual Basic .Net language. Students will learn to develop problem specifications, detailed analysis, design algorithms, and construct structured computer programs. Lab hours may be scheduled or TBA depending on the section. Students are expected to complete both the lecture and lab portion of the class. *Three hours lecture, one hour lab by arrangement.*

CIS   015   3.0 Units
Programming In Visual Basic.NET
Course Advisory: CIS 001 with a minimum grade of C or P; SCC minimum English and Math standards. An introductory course in 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. 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. *Three hours lecture, one hour lab by arrangement.*

CIS   020   3.0 Units
Assembly Programming
Prerequisite: CIS 010 or 015 or 022 or 035 with a minimum grade of C or P. Course Advisory: SCC minimum English and Math standards. A hardware-oriented programming course dealing with programming a computer at the assembler language level. Emphasis will be on the assembly language of computers. 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. *Three hours lecture, one hour lab by arrangement.*

CIS   021   3.0 Units
Discrete Structures for Computer Science
Course Advisory: Successful completion of MATH 104. Prerequisite: CIS 022 with a minimum grade of C (may be taken concurrently). This course is 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. C-ID COMP 152. *Three hours lecture.*

CIS   022   3.0 Units
Introduction to Programming
Prerequisite: CIS 001 with a minimum grade of C or P. Course Advisory: SCC minimum English and Math standards. 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.). 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. C-ID COMP 122. *Three hours lecture, one hour lab by arrangement.*

CIS   023   3.0 Units
Data Structures And Algorithms
Prerequisite: CIS 022 with a minimum grade of C or P. Course Advisory: SCC minimum English and Math standards. 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.) *Three hours lecture, one hour lab by arrangement.*

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CIS   035   **3.0 Units**
Introduction to Java Programming
Prerequisite: A minimum grade of C or P in CIS 022 or CIS 023 or 015. Course Advisory: SCC minimum English and Math standards. The course introduces Object Oriented Programming (OOP) using the Java programming language. It includes 'hands-on' development of Java applets and Java applications using objects, classes, interfaces and Graphical User Interface (GUI) components. Lab hours may be scheduled or TBA depending on the section. Students are expected to complete both the lecture and lab portions of the class. *Three hours lecture, one hour lab by arrangement.*

CIS   049   **1.0 to 3.0 Units**
Computer Programming Honors
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 C; an ability to work independently; permission of the School Dean based on instructor availability. Course Advisory: SCC minimum English and Math standards. 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. *Three to nine hours by arrangement.*

CIS   050   **3.0 Units**
Microcomputer Applications
Course Advisory: Basic keyboarding skills at 30 wpm; SCC minimum English and Math standards. This course will serve as 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. *Three hours lecture.*

CIS   052   **3.0 Units**
UNIX Operating System
Course Advisory: CIS 055 with a minimum grade of C or P; SCC minimum English and Math standards. This course will analyze 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). *Three hours lecture.*

CIS   055   **3.0 Units**
MS Windows Operating Systems
Course Advisory: CIS 001 with a minimum grade of C or P; basic keyboarding skills. Students will learn 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. *Three hours lecture.*

CIS   060   **1.5 Units**
Introduction to the Internet
Course Advisory: SCC minimum English and Math standards. Designed to prepare 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. *Three hours lecture. (8-week course).*

CIS   061   **3.0 Units**
Creating Web Pages
Course Advisory: CIS 001; SCC minimum English and Math standards. This course is designed to prepare 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. *Three hours lecture.*

Computer Information Science

CIS   062   3.0 Units
Creating Web Interactivity with Flash
Course Advisory: CIS 001 with a minimum grade of C or P; CIS 061 with a minimum grade of C or P; SCC minimum English and Math standards. This course 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 Macromedia Flash will be applied in order to create Web sites 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. *Three hours lecture.*

CIS   066   3.0 Units
Microsoft Word
Course Advisory: CIS 001 or CIS 050 with a minimum grade of C or P; ability to keyboard at 30 wpm. Provides 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. *Three hours lecture.*

CIS   068   3.0 Units
Object Oriented Game Programming With Flash
Prerequisite: CIS 062 with a minimum grade of C. Course Advisory: CIS 001 with a minimum grade of C or P; SCC minimum English and Math standards. Using solid programming techniques and the fundamental concepts of Object Oriented Programming, students will use Macromedia Flash ActionScript to create multimedia games. This process includes designing, coding, testing, debugging and documenting Flash ActionScript programs. Additionally, students will apply these concepts to the creation of game programs that utilize digital media including images, animation, audio, video, and text. *Three hours lecture.*

CIS   069   3.0 Units
Multimedia For The Web
Course Advisory: CIS 061 with a minimum grade of C; SCC minimum English and Math standards. Takes 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 Dynamic HTML to create web site interactivity, adding audio and/or video to a Web site, and manipulating Web multimedia file formats. *Three hours lecture.*

CIS   070   3.0 Units
Adobe Photoshop for the Web
Course Advisory: SCC minimum English and Math standards. CIS 001 or CIS 050 with a grade of Pass or better or equivalent. This course 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 in this course. *Three hours lecture.*

CIS   072   1.5 Units
Extensible Markup Language (Xml)
Course Advisory: CIS 001 with a minimum grade of C; CIS 061 with a minimum grade of C; SCC minimum English and Math standards. Introduces Extensible Markup Language. Students will learn how to create XML documents and use XML-based markup languages. *Three hours lecture (8-week course).*

CIS   073   3.0 Units
Microsoft Excel
Course Advisory: CIS 001 with a minimum grade of C or P; ability to keyboard at 30wpm. Provides 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. *Three hours lecture.*

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CIS 075   **3.0 Units**
Client-Side Web Programming
Course Advisory: CIS 001 with a minimum grade of C; CIS 061 with a minimum grade of C; SCC minimum English and Math standards. Focuses on the enhancement of Web pages by adding interactivity and functionality through the use of client-side programming. *Three hours lecture.*

CIS 078   **3.0 Units**
Access - Database Management System
Course Advisory: CIS 001 with a minimum grade of C. An introduction to relational database management using microcomputers. Micosoft'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. *Three hours lecture.*

CIS 080   **3.0 Units**
SQL Database Management Systems
Prerequisite: CIS 078 or equivalent with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. Designed for the student who needs knowledge and skills about 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. *Three hours lecture.*

CIS 081   **3.0 Units**
Server-Side Web Programming
Course Advisory: CIS 001 with a minimum grade of C; CIS 061 with a minimum grade of C; SCC minimum English and Math standards. 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. *Three hours lecture.*

CIS 083   **3.0 Units**
Web Server Administration
Course Advisory: CIS 001 with a minimum grade of C; CIS 061 with a minimum grade of C; SCC minimum English and Math standards. This course covers 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. *Three hours lecture.*

CIS 085   **3.0 Units**
Digital Publishing with InDesign
Course Advisory: SCC minimum English and Math Standards CIS 001 or CIS 050 with a grade of Pass or better or equivalent. 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. *Three hours lecture.*

CIS 087   **3.0 Units**
Adobe Illustrator for the Web
Course Advisory: SCC minimum English and Math standards; CIS 001 or CIS 050 with a grade of Pass or better or equivalent. 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. *Three hours lecture.*

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CIS   089   3.0 Units
Essential Networking Technologies
Course Advisory: CIS 001 with a minimum grade of C or P; SCC minimum English and Math standards. An introductory course starting with a general 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. *Three hours lecture.*

CIS   090   1.5 Units
Introduction To PowerPoint
Course Advisory: CIS 001 or CIS 050 with a minimum grade of C; ability to keyboard. This course introduces features and design concepts utilized in developing powerful presentations using a package software such as Microsoft PowerPoint. *Three hours lecture (8-week course).*

CIS   091   1.5 Units
Microsoft Outlook
Course Advisory: CIS 001 or CIS 050 with a minimum grade of C; basic keyboarding skills; SCC minimum English standard. Students get started using Outlook's features; working 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. Three hours lecture (8-week course).*

CIS   093   1.5 Units
Ms Publisher
Course Advisory: CIS 001 or CIS 050 with a minimum grade of C; SCC minimum English and Math standards. Provides 'hands-on' experience in the Microsoft Publisher desktop publishing computer program. Students will learn to produce camera ready, near-typeset quality reports, brochures, newsletters, labels, cards, and business forms. *Three hours lecture (8-week course).*

CIS   110   1.5 Units
Wireless Lans
Course Advisory: CIS 001 with a minimum grade of C or P; SCC minimum English and Math standards. This course is designed to instruct students on 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. *Three hours lecture, one hour lab (8-week course).*

CIS   111   1.5 Units
Web Design with Cascading Style Sheets
Course Advisory: CIS 061 with a minimum grade of C; SCC minimum English and Math standards. This course is intended for students and Web Professionals who have a working knowledge of Web design and HTML and want to use cascading style sheets to control the display and formatting on a Web site or any other application that uses CSS. *Three hours lecture (8-week course).*

CIS   112   3.0 Units
Introduction to Robotics Programming
Prerequisite: CIS 001. Course Advisory: SCC minimum English and Math standards. The student will be introduced to Programming a 360-degree, 5-axis articulating arm via the Industry Standard Smart Terminal hand held computer and the PC interface. The student will learn all the basic physical parts of the system. Additionally, the student will learn to utilize many of the 150 programming language commands to maniuplate the robot to do work in three dimensional work spaces over time. Furthermore, the student will learn and implement Industry Standard Robotic Safety Standards in the work place. *Three hours lecture.*

CIS 113   **3.0 Units**
Introduction to Programmable
Logic Controllers
Prerequisite: CIS 001. Course Advisory: SCC minimum English and Math standards. The student will be introduced to how to design, program and operate the Programmable Logic Controller (PLC) to control a number of process applications used by industries all over the world. The Programmable Logic Controller (PLC) is a microprocessor-based controller designed to provide easily programmed control of almost any type of process. The student will learn to program Input Modules, Output Modules, Processor Module, Power Supply, Programming device, and I/O chassis. *Three lecture hours.*

CIS 120   **1.5 Units**
Developing XML Web Services
Prerequisite: CIS 072. Course Advisory: CIS 001 and SCC minimum English and Math Standards. This course introduces the fundamental Web services architecture and its core technologies, including XML, XML Schema, SOAP, WSDL, and UDDI with the focus on writing, testing, and debugging a Web service such as a credit card validation Web service. *Three hours lecture, one hour lab by arrangement (8-week course).*

CIS 121   **3.0 Units**
PHP Programming with MySQL
Course Advisory: SCC minimum English and Math standards; CIS 061; CIS 001. This course teaches Web development with PHP and MySQL. It presents the basics of PHP and MySQL along with advanced topics including object-oriented programming and how to build Web sites that incorporate authentication and security. Upon completion of this course, students should be able to use PHP and MySQL to build professional quality, database-driven Web sites. Additionally, students will become proficient with the administration and maintenance of a MySQL database. *Three hours lecture, one hour lab by arrangement.*

CIS 162   **4.0 Units**
A+ Computer Hardware Technology
Course Advisory: SCC minimum English and Math standards. 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. (Formerly ECTN 126). *Three hours lecture, three hours lab.*

CIS 164   **4.0 Units**
A+ Computer Operating Systems Technology
Course Advisory: ECTN 126, SCC minimum English and Math standards. 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. (Formerly ECTN 128). *Three hours lecture, three hours lab.*

CIS 166   **4.0 Units**
Computer Network + Technology
Course Advisory: SCC minimum English and Math standards. 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. (Formerly ECTN 122). *Three hours lecture, three hours lab.*

Computer Information Science

CIS   168   4.0 Units
Computer Security+ Technology
Prerequisite: A minimum grade of C in either CIS 166 or ECTN 122. Course Advisory: SCC minimum English and Math standards. 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. (Formerly ECTN 124). *Three hours lecture, three hours lab.*

CIS   172   1.5 Units
Computer Forensics: Evidence Recovery
Course Advisory: SCC minimum English and Math standards. Introduces the student to the physical aspects of data collection from computer systems and computer networks. The student is introduced to the hardware and software used to collect data, the techniques used to ensure integrity and preserve data, and the requirements of preparing collected data for later forensic investigation. Students will learn to process a digital crime scene as well as the corporate environment for both criminal/civil cases and incident response. (Formerly ECTN 172). *One hour lecture, one and one-half hours lab.*

CIS   173   3.0 Units
Computer Forensics Investigations
Prerequisite: CIS 001. Course Advisory: Eligibility for English 001 and SCC minimum Math standard. Introduces the student to the tools and techniques of preserving and investigating digital evidence in a systematic and scientifically reliable manner using modern computer forensic software applications. The student is introduced to the interpretation and analysis of recovered data for the purpose of collecting legal evidence. Student is exposed to data in an array of formats and applications from several computer types and operating systems as well as deleted, encrypted, and damaged information. Evidence reporting practices are also introduced. (Formerly ECTRN 173). *Two hours lecture, three hours lab.*

CIS   174   3.0 Units
Computer Forensics: Operating Systems Internals
Prerequisite: Minimum grade of C in either CIS 173 or ECTN 173. Course Advisory: SCC minimum English and Math standards. Students will explore the internal workings of computer operating systems and perform forensic examinations of various operating systems. Students will analyze FAT, NTFS, Ext2, Ext3, UFS1, and UFS2 file systems and data structures. Students will learn to recognize systems that have been compromised by viruses or other intrusive programs, and will be able to locate corrupt, hidden or deleted data. (Formerly as ECTN 174). *Two lecture hours, three hours lab.*

Cosmetology

Program Description

The program consists of sixteen hundred (1600) hours of intensive training and study designed to prepare the student to take the California State Board of Cosmetology examination for licensure. Units include theory and practice in fundamental skills in all phases of beauty culture. Assignment of units is based on hours in attendance. See the Course Description portion of the Catalog for prerequisite requirements for admission to the program.

Transfer students will be accepted on a space-available basis providing they have not achieved more than 500 certified hours of training.

Certificate of Achievement and Associate in Science Degree

A Certificate can be obtained by completing the 49.5-unit major listed below. The Associate in Science Degree can be obtained by completing a minimum of 66 units, including the major of at least 49.5 units and the general education requirements. 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 Cosmetology Certificate of Achievement/Associate Degree will be able to:
1. Translate and identify the differences between chemical and non-chemical changes as related to Cosmetology.
2. Employ and demonstrate the theories as related to sanitation, sterilization and rules and regulations as mandated by the Cosmetology Act and the Rules and Regulations - State approved textbooks.
3. Interpret and apply cosmetological theories as required for theoretical and practical applications.
4. Contrast and compare the skills and concepts as required by the California State Board of Barbering and Cosmetology.
5. Mandated Clinic Laboratory hours completed - Desk and Reception Training - Business and Communication skills developed - Sales and retail product knowledge.

REQUIRED COURSES . . . . **Units**
COSM 100 Cosmetology I 12.5
COSM 101 Cosmetology II 12.5
COSM 102 Cosmetology III 12.5
COSM 103A Cosmetology IV 6
COSM 103B Cosmetology V 6
OR
COSM 175 Cosmetology Education Practicum 6
   Total Units **49.5**

Recommended Electives:
COSM 103A Cosmetology IV
COSM 103B Cosmetology V
COSM 104A Esthetics of Skin Care I
COSM 104B Esthetics of Skin Care II
COSM 111 Special Hair Processes
COSM 112 Basic Hairstyling
COSM 113 Advanced Hairstyling
COSM 114 Brush-Up and/or Supplemental Training
COSM 115 Cosmetology Instructor Training I
COSM 116 Cosmetology Instructor Training II
COSM 117 Special Manicurist
COSM 175 Cosmetology Education Practicum
OCED 070 Occupational Soft Skills
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

NOTE: First time students to the Cosmetology Program will be required to attend an orientation meeting and purchase a materials card at registration in addition to the registration fees. The cost of the materials card and start-up materials exceeds $2,000. For more information see the schedule of classes or call the Cosmetology Department at (707) 864-7000 ext. 4389.

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Cosmetology."

Cosmetology

First-time students to the Cosmetology Program will be required to attend an orientation meeting and purchase a materials card at registration in addition to the registration fees. The cost of the materials card and start-up materials exceeds $2,000. For more information see the Schedule of Classes or call the Cosmetology Department at (707) 864-7000 ext. 4389.

COSM   100   **12.5 Units**
Cosmetology I
Course Advisory: SCC minimum English standard. The first course in a three semester series to provide the training towards the state mandated 1600 hours of intensive training and study designed to prepare the student for the California State Board of Cosmetology examination for licensure. Introduces theories, concepts, principles and practice in the beauty culture. The student will focus on the fundamental techniques and application skills for cosmetology processes. Critical thinking skills are developed in the application of the concepts of client consultation, communication, hair care, nail care, skin care and cosmetology processes. NOTE: Students are required to attend the cosmetology orientation meeting and purchase a materials card at registration in addition to the registrations fees. Students are required to purchase an equipment kit and materials card from the SCC College Bookstore. The cost of the materials card and start-up materials varies. To qualify for the State examination for license, students must have completed the following: designated license hours and requirements; 10th grade or equivalent; be at least 18 years of age. Not open to students who have received credit for COSM 150 or 151. *Five hours lecture, twenty-two and one-half hours lab.*

COSM   101   **12.5 Units**
Cosmetology II
Prerequisite: COSM 100 with a minimum grade of C. The second of a four semester course series in Cosmetology to provide the training towards the state mandated 1600 hours of intensive training and study designed to prepare the student for the California State Board of Cosmetology examination for licensure. Focus is on the continued study of beauty culture. This course provides the students with the opportunity to synthesize and utilize cosmetology knowledge and skills in providing multiple clients with hair care, nail care and skin care service in the Patron Laboratory. NOTE: All students enrolling in COSM 101 must pay a Material's Fee with enrollment fees to the Admissions and Records office at the time of registration. The cost of the materials fee and start-up materials varies. *Five hours lecture, twenty-two and one-half hours lab.*

COSM   102   **12.5 Units**
Cosmetology III
Prerequisite: COSM 101 with a minimum grade of C. The third in a series of a four semester course series in Cosmetology to provide the training towards the state mandated 1600 hours of intensive training and study designed to prepare the student for the California State Board of Cosmetology examination for licensure. Includes principles and practices of cosmetology with emphasis on the essential knowledge and skills for licensure and working within the cosmetology industry. Students are able to increase practical application skills and processes by providing multiple clients with hair care, skin care and nail care services in the patron lab. NOTE: All students enrolling in COSM 102 must pay a Material's Fee with enrollment fees to the Admissions and Records office at the time of registration. The cost of the materials fee and start-up materials varies. *Five hours lecture, twenty-two and one-half hours lab.*

Cosmetology

COSM   103A   **6.0 Units**
Cosmetology IV
Prerequisite: A minimum grade of C in COSM 100, 101, and 102. Designed to meet the needs of students who are preparing to go to the state exam. Review over the basic skills that are required to pass the tests by practice and study. Reinforce the entry level skills expected from the industry. NOTE: All students enrolling in COSM 112 must pay a Material's Fee with enrollment fees to the Admissions and Records office at the time of registration. The cost of the materials fee and start-up materials varies. Formerly COSM 103. *Five hours lecture, twenty-one hours lab (8-week couse).*

COSM   103B   **6.0 Units**
Cosmetology V
Prerequisite: COSM 103A or COSM 175. Course Advisory: SCC minimum English and Math standards. Provides the application of theoretical skills to increase performance proficiencies and accrue the hours as mandated by the State Board of Barbering and Cosmetology. Students are required to have the mandatory books and equipment kit as required in the concurrent course by the first class meeting. Students are required to pay a materials fee at the time of registration. The cost of the materials fee varies. For current costs, please refer to the schedule of classes for each semester. *Four hours lecture, twenty four hours lab (8-week course).*

COSM   104A   **15.0 Units**
Esthetics of Skin Care I
Prerequisite: Tenth grade completion or equivalent and 18 years of age as required by the State Board of Barbering and Cosmetology. Course Advisory: SCC minimum English standard. A two semester course series in skin care consisting of 600 hours. Designed to prepare the student for the California State Board of Barbering and Cosmetology examination for Esthetician licensure. An intensive study of basic and advanced technological concepts in European facialing techniques. The curriculum framework provides the theoretical, manual, and mechanical skills needed for a profession in esthetics. NOTE: Students are required to purchase a mandatory equipment kit and materials card at the SCC bookstore. The cost of the materials card and start-up materials varies. For current costs, please refer to the Schedule of Classes for each semester. Additionally, students are required to attend the Cosmetology orientation (see Schedule of Classes for the date and time). *Five hours lecture, thirty hours lab.*

COSM   104B   **6.0 Units**
Esthetic Skin Care II
Prerequisite: COSM 104A. A continuation of COSM 104A providing additional in-depth training for more advanced skin care techniques and methodologies. Designed to prepare the student for the California State Board of Barbering and Cosmetology examination for Esthetician licensure. NOTE: Students will be required to purchase a mandatory materials card from the SCC bookstore. The cost of the materials card and start-up materials varies. For current costs, please refer to the Schedule of Classes for each semester. *Five hours lecture, twenty-one hours lab (8-week course).*

COSM   105A   **9.5 Units**
Fundamentals of Esthetics
Prerequisite: Tenth grade completion or equivalent; and 18 years of age as required by the State Board of Barbering and Cosmetology. Course Advisory: SCC minimum English and Math standards. The first of a two-part class designed to introduce students to the basic knowledge and skills to qualify them to take the state licensing exam in esthetics. Topics include the treatments, facials, makeup, and hair removal processes as well as a thorough understanding of the business aspects, general facial procedures, the human anatomy, chemistry, ingredients, electricity, sanitation and health and safety associated with this field. NOTE: All students enrolling in COSM 105A must pay a Material's Fee with enrollment fees to the Admissions and Records office at the time of registration. The cost of the materials fee and start-up materials varies. Additionally, students are required to attend the Cosmetology Orientation (see schedule of Classes for the Orientation date and time). This class is not open to students enrolled in COSM 104A. *Four and one-half hours lecture, and fifteen hours lab.*

Cosmetology

COSM 105B   **9.5 Units**
Advanced Fundamentals of Esthetics
Prerequisite: Tenth grade completion or equivalent and 18 years of age as required by the State Board of Barbering and Cosmetology; completion of COSM 105A. Course Advisory: SCC minimum English and Math standards. This course continues the basic skills practice and technical training from COSM 105A to qualify students for state licensure. It expands the knowledge of the practices, techniques, products, chemicals, laws and advanced procedures used in the current field of Esthetics. NOTE: Students will be required to purchase a mandatory materials card from the SCC bookstore. The cost of the materials card and start-up materials varies. For current costs, please refer to the schedule of classes for each semester. This class is not open to students who have completed COSM 104A or students enrolled in COSM 104B. *Four and one-half hours lecture, fifteen hours lab.*

COSM 110   **6.0 Units**
Introduction to Cosmetology
Course Advisory: SCC minimum English standard. To acquaint students with cosmetology career opportunities and the industry options available. A survey of the concepts and processes utilized in the beauty industry. NOTE: All students enrolling in COSM 110 must pay a Material's Fee with enrollment fees to the Admissions and Records office at the time of registration. The cost of the materials fee and start-up materials varies. *Five hours lecture, twenty hours activities. (6-week course).*

COSM 111   **2.0 Units**
Special Hair Processing
Prerequisite: Current California State Cosmetology License or COSM 100 (may be taken concurrently). Course Advisory: SCC minimum English standard. This course is designed to teach theory and practice in the thermal and chemical processes used in the curling, straightening and waving of hair. NOTE: Students are required to purchase a materials card from the SCC bookstore. The cost of the materials card and start-up materials varies. For current costs, please refer to the Schedule of Classes for each semester. *One hour lecture, three hours lab.*

COSM 112   **2.0 Units**
Basic Hairstyling
Prerequisite: Current California State Cosmetology License or completion of COSM 100. Course Advisory: SCC minimum English standard. This course is designed to provide licensed operators and students enrolled in the Solano College Cosmetology day program with a fundamental knowledge of basic styling and hair cutting skills. NOTE: Students are required to buy a materials card from the SCC bookstore. The cost of the materials card and start-up materials varies. For current costs, please refer to the Schedule of Classes for each semester. *One hour lecture, three hours lab.*

COSM 113   **2.0 Units**
Advanced Hairstyling
Prerequisite: Current California State Cosmetology License. Course Advisory: SCC minimum English standard. Designed to provide licensed cosmetologist with advanced techniques in haircutting, hairstyling and make-up. Provides hands-on knowledge of the current trends released by the National Hairdresser's Association. Presents concepts and principles of newly established in the cosmetology industry. NOTE: Students are required to purchase a materials card from the SCC bookstore. The cost of the materials card and start-up materials varies. For current costs, please refer to the Schedule of Classes for each semester. *One hour lecture, three hours lab.*

COSM 114   **15.0 Units**
Brush-Up and/or Supplemental Training
Prerequisite: Completion of COSM 102 or its equivalent, or current license number or expired California State license number, or a letter from the California State Board of Cosmetology identifying specific requirements of training for cosmetology licensure. Course Advisory: SCC minimum English standard. Designed to meet the needs of cosmetologist who have deficiencies in theory or practice in the field of cosmetology. Assists cosmetologist who require additional training to qualify for better positions by upgrading skills. Preparatory training for cosmetologist who wish to renew their cosmetology license. NOTE: Students are required to purchase a materials card from the SCC bookstore. The cost of the materials card and start-up materials varies. For current costs, please refer to the Schedule of Classes for each semester. *Five hours lecture, thirty hours lab.*

Cosmetology

COSM 115 13.0 Units
Cosmetology Instructor Training I
Prerequisite: Current California Cosmetologist's license and completion of COSM 102 or 114. Course Advisory: SCC minimum English standard. Presents cosmetology principles and techniques applied to instruction teaching methods. Designed for currently licensed cosmetologist who want to pursue a cosmetology instructor license through the California State Board of Barbering and Cosmetology. Focus is on the lesson planning, presentation methods, application techniques, evaluation processes and instruction materials. Provides the utilization of cosmetology processes to develop instruction performance criteria. State Board of Barbering and Cosmetology requires one experience within the last three years and completion of COSM 102 or 114 within the last five years to be eligible for instructors licensing test. NOTE: Students are required to purchase a materials card from the SCC bookstore. The cost of the materials card and start-up materials varies. For current costs, please refer to the Schedule of Classes for each semester. *Five hours lecture, twenty-four hours lab.*

COSM 116 8.0 Units
Cosmetology Instructor Training II
Prerequisite: COSM 115. Course Advisory: SCC minimum English standard. Continuation of Cosmetology 115 to give the student more sophistication in the development, implementation and evaluation of teaching methods. Focus is on laboratory practicum emphasizing curriculum activities utilizing lesson planning and teaching techniques. Provide the students with the opportunity to synthesize and utilize instructional knowledge and skills through classroom instruction presentations. Designed to prepare the student for the cosmetology instructor licensure examination for the California State Board of Barbering and Cosmetology. NOTE: Students are required to purchase a materials card from the SCC bookstore. The cost of the materials card and start-up materials varies. For current costs, please refer to the Schedule of Classes for each semester. *Five hours lecture, fifteen hours activities.*

COSM 117 15.0 Units
Special Manicurist
Course Advisory: SCC minimum English standard. Consists of four hundred (400) hours of intensive training and study. Designed to prepare the student for the California State Board Examination in Manicuring. Focus is on the essential knowledge and skills in all area of manicuring technology. Provide the opportunity for students to develop technical skills in providing nail care and artificial nail service to multiple clients in the patron laboratory. NOTE: Students are required to purchase an equipment kit and materials card from the SCC Bookstore. The cost of the materials card and start-up materials varies. For current costs, please refer to the Schedule of Classes for each semester. Students are required to attend the cosmetology orientation (see orientation statement in Schedule of Classes). Students must have completed the designated hours of practical training and technical instruction, the tenth (10th) grade, or its equivalent, and be 18 years of age to qualify for the manicurist license examination by the State Board of Barbering and Cosmetology. NOTE: Not open to students who have completed COSM 171, 172, 173, or 174. *Five hours lecture, thirty hours lab.*

COSM 150 7.5 Units
Basic Concepts
Prerequisite: Completion of the tenth grade or equivalent required by state law. Course Advisory: SCC minimum English standard. Provides a format for students to study basic cosmetology issues of the industry and basic style trend changes. The first course in a two-course sequence which is equivalent to COSM 100. NOTE: First-time students will be required to attend the cosmetology orientation meeting and purchase a materials card from the SCC bookstore at registration, in addition to the registration fees. The cost of the materials card and start-up material is in addition to the registration fees and varies. For current costs, please refer to the Schedule of Classes for each semester. To qualify for the cosmetology licensure examination as required by California State Board of Barbering and Cosmetology, students must have completed the designated license hours and requirements, completed the designated license hours and requirements, completed the tenth grade or equivalent and be at least 18 years of age. Not open to students who have received credit for COSM 100. *Five hours lecture, thirty hours lab (9-week course).*

Cosmetology

COSM 151   **7.5 Units**
Basic Concepts in Cosmetology
Prerequisite: COSM 150. Course Advisory: SCC minimum English standard. Provides a format for student to study more in depth issues of the industry and to examine theoretical and practical trend changes. The second course in a two-course sequence which is equivalent to COSM 100. Completion of the tenth grade or equivalent and 18 years of age to be eligible for cosmetology licensure examination as required by California State Board of Barbering and Cosmetology. Students are required to purchase a materials card from the SCC bookstore. The cost of the materials card and start-up materials varies. For current costs, please refer to the schedule of classes for each semester. Not open to students who have received credit for COSM 100. *Five hours lecture, thirty hours lab (9-week course).*

COSM 175   **6.0 Units**
Cosmetology Education Practicum
Prerequisite: A minimum grade of C in COSM 100, or 101, or 102, or 104A, or 104B, or 115, or 117. Course Advisory: SCC minimum English standard. Provides the application of theoretical skills to increase performance proficiencies and accrue the hours as mandated by the State Board of Barbering and Cosmetology. All students enrolling in COSM 175 must pay a Material's Fee with enrollment fees to the Admissions and Records office at the time of registration. The cost of the materials fee and start-up materials varies. *Five hours lecture, twenty-one hours lab (8-week course).*

Counseling

Program Description
These courses are designed to assist students in making successful adjustment to college, develop academic and career plans and goals, acquire learning skills, obtain job-seeking skills and employment, and develop interpersonal skills for life and work.

Associate Degree
Not offered in this discipline.

COUN   007   **3.0 Units**
College Study Techniques
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. This course provides an exploration of the intellectual, psychological, physiological and sociological factors that impact lifelong learning, well-being and success. Topics include: value of education and student responsibility; psychology of student attitudes, motivation, behaviors and self efficacy; critical thinking and effective study strategies; health issues and lifestyle choices; relying on others in a diverse world; effective written and oral communication; time management, campus and community resources; transfer and educational planning. Students will be required to purchase a current Solano College catalog. *Three hours lecture.*

COUN   050   **3.0 Units**
Career—Life Planning
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. This course is designed to help students demonstrate an understanding and appreciation of the impact and significance of career choices on the 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. *Three hours lecture.*

COUN   055   **3.0 Units**
Valuing Diversity
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. 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 and critical papers. *Three hours lecture.*

COUN   058   **3.0 Units**
Life Management
Course Advisory: SCC minimum English standard. 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. *Three hours lecture.*

COUN   062   **3.0 Units**
Helping Skills: Creating Alliances & Facilitating Change
Course Advisory: COUN 083, Eligibility for English 001 and SCC minimum Math standard. 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. *Three hours lecture.*

Counseling

COUN 064A   **4.0 Units**
Practicum I
Prerequisite: COUN 062, HS 051, HS 053. Course Advisory: Eligibility for English 001 and SCC minimum Math standard. The first of a two-course sequence in a supervised Human Services practicum experience at an approved agency or educational setting. In order to develop and apply culturally sensitive and ethically sound helping skills, students will work a minimum of 100 hours and participate actively in a two hour weekly seminar. Placement at most sites will involve a criminal background check. *Two hours lecture, six hours by arrangement.*

COUN 064B   **4.0 Units**
Practicum II
Prerequisite: COUN 064A. Course Advisory: HS 055; Eligibility for English 001; SCC minimum Math standard. 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 parth in Human Services, Social Work or Counseling. Practicum Sites often require students to pass a criminal background check. *Two hours lecture, six hours by arrangement.*

COUN 068   **1.0 Unit**
University Transfer Success
Course Advisory: SCC minimum English and Math standards. : This course 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 individual education plans. *Four hours lecture (4-week course).*

COUN 083   **3.0 Units**
Applied Psychology
Course Advisory: Eligibility for English 001. This course is an applied approach to understanding the fundamental concepts of psychology as they relate to daily life. Topics include examining methods of psychology, stages of personality development, personal learning, relationships, values, communication, motivation, emotions, lifestyle, and attitudes. Concepts will be introduced to foster the student's understanding of his/her own personal development and life endeavors. Students will learn problem solving techniques by addressing real life concerns and developing solutions. Theories and applications will be applied across a diversity of settings. *Three hours lecture.*

COUN 088   **1.0 Unit**
Math, Engineering And Science Achievement (MESA) Enrichment
Course Advisory: SCC minimum English and Math standards. This course 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. *One hour lecture.*

COUN 098   **3.0 Units**
Performance Enhancement
Course Advisory: SCC minimum English and Math standards. Performance enhancement explores the psychological, social and physiological factors influencing optimal performance in life¿s endeavors including academics, performing arts, sports, interpersonal and business relationships. Performance enhancement topics include 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. Students will design and apply their own Personal Performance Plan to a variety of performance arenas. *Three hours lecture.*

Counseling

COUN   101   **0.5 Unit**
Orientation For College Success
Course Advisory: Completion of Solano Assessment testing and possession of all relevant academic records and other test results and transcripts, including SAT, ACT, AP and IB and SCC minimum English and Math standards. This short-term course provides an in-depth orientation 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 education plan. *Two hours lecture (1-week course).*

COUN   102A   **0.5 Unit**
Time Management & Goal Setting
Course Advisory: SCC minimum English and Math standards. This course 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 courses may be taken concurrently. NOTE: Not open for credit to students who have completed COUN 007 with a minimum grade of C. *Four hours lecture (2-week course).*

COUN   102B   **0.5 Unit**
Test Taking, Test Anxiety & Memory
Course Advisory: SCC minimum English and Math standards. This course introduces test taking, test anxiety and memory concepts and techniques to assist students to achieve their educational and career goals. Other COUN 102 courses may be taken concurrently. Note: Not open for credit to students who have completed COUN 007 with a minimum grade of C. *Four hours lecture (2-week course).*

COUN   102C   **0.5 Unit**
Study Systems
Course Advisory: SCC minimum English and Math standards. This course introduces note-taking, reading and study environment concepts/strategies and identifies attitudes and learning styles to assist students to achieve their educational and career goals. Other COUN 102 courses may be taken concurrently. Note: Not open for credit to students who have completed COUN 007 with a minimum grade of C. Four hours lecture (2-week course).

Tutoring

TUTR   050   **0.5 Unit**
Tutoring Practicum
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. Provides 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. *Eight hours lecture (1-week course).*

TUTR   500   **.0 Units**
Supervised Tutoring
Prerequisite: Recommendation by the course instructor or a counselor, permission of the Tutoring Center Supervisor to verify prerequisite, and concurrent enrollment in course or courses in which tutoring assistance is being requested. Provides academic support through content reinforcement and course-related materials. Peer tutors are assigned to individuals or small groups; the tutoring will take place in the Tutoring Center and the tutoring sessions are supervised by a credentialed instructor. This is an Open Entry/Open Exit course. *One-half to three hours by arrangement.*

Criminal Justice

Criminal Justice, Computer Forensics

Program Description
This program is designed to prepare the student for employment as a computer forensics investigator. It includes a mix of several disciplines of study that, when combined, provide a basis for the general knowledge and skills required to perform the careful investigation of evidence obtained from computers and computer systems. In addition, this major provides the knowledge and skills required by computer network specialists involved in the tasks of securing computer systems and protecting information workers.

Certificate of Achievement and Associate in Science Degree
The Certificate of Achievement can be obtained upon completion of the 32.5-unit major listed below. The Associate Degree can be obtained upon completion of 60 units, including the major, general education requirements, and electives. 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 Criminal Justice, Computer Forensics Certificate of Achievement/Associate Degree will be able to:
1. Perform complex operation and management of computer-based software systems.
2. Setup and maintain computer-based hardware systems.
3. Perform a computer investigation.
4. Understand the legal principles and practices of computer investigations.

REQUIRED COURSES . . . . **Units**
CJ 051 Criminal Investigation. 3
CJ 053 Legal Aspects of Evidence 3
CIS 001 Introduction to Computer Science. 3
CIS 162 A+ Computer Hardware Technology 4
CIS 164 A+ Computer Operating Systems Technology . . 4
CIS 166 Computer Network + Technology. 4
CIS 168 Computer Security + Technology 4
CIS 172 Computer Forensics: Evidence Recovery 1.5
CIS 173 Computer Forensics Investigations. 3
CIS 174 Computer Forensics:
      Operating Systems Internals 3
   Total Units **32.5**

Recommended Electives
CIS 022 Introduction to Programming
CIS 052 UNIX Operating System
      (UNIX OPERATING SYST)
CIS 055 MS Windows Operating Systems
CIS 073 Microsoft Excel ENGL 004 Critical Thinking and
Composition: Language in Context
ENGL 051 Technical Writing
OCED 070 Occupational Soft Skills
OCED 090 Occupational Work Experience
OCED 091 General Work Experience
OT 054A Beginning Keyboarding A
OT 054B Beginning Keyboarding B
OT 055A Intermediate Keyboarding/Word Processing A
OT 055B Intermediate Keyboarding/Word Processing B
SOCS 022 Ethnic, Racial and Minority Group Relations in
Harmony and Conflict
SPAN 001 First Semester Spanish
SPAN 002 Second Semester Spanish

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Computer Forensics."

Criminal Justice

Criminal Justice, Corrections

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.

Certificate of Achievement and Associate in Science Degree
The Certificate of Achievement can be obtained upon completion of the 30-unit major listed below. The Associate in Science Degree can be obtained upon completion of 60 units, including the major, general education requirements, and electives. 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 Criminal Justice, Corrections Certificate of Achievement/Associate Degree 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. Demonstrate knowledge of the rules of evidence, legal definitions, and concepts of evidentiary law. Apply basic investigative proficiencies.
6. Demonstrate critical thinking and analytical skills acquired in the social sciences in preparation for continuance of college-level education.

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
Select six units from the elective list below 6
    Total Units **30**

Select six (6) units from the following . . . . **Units**
CJ 057 Criminal Justice Career Development. 3
CJ 060 Probation and Parole 3
CJ 062 Legal Aspects of Correction 3
CJ 091 Vocational Work Experience – Corrections . . . . 1 - 3

Recommended Electives
CIS 050 Microcomputer Applications
COMM 010 Interpersonal Communication
COUN 062 Helping Skills: Creating Alliances
        & Facilitating Change
ENGL 004 Critical Thinking and Composition: Language
        in Context
ENGL 051 Technical Writing
HUMN 003 Journey in a Multicultural Landscape
HS 051 Introduction to Human Services
HS 053 Serving Special Populations
OCED 070 Occupational Soft Skills
OCED 090 Occupational Work Experience
OCED 091 General Work Experience
OT 054A Beginning Keyboarding A
OT 054B Beginning Keyboarding B
OT 055A Intermediate Keyboarding/Word Processing A
OT 055B Intermediate Keyboarding/Word Processing B
SOCS 022 Ethnic, Racial and Minority Group Relations in
        Harmony and Conflict
SOCS 030 Peace, Non Violence and Conflict Resolution
SPAN 001 First Semester Spanish
SPAN 002 Second Semester Spanish

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Criminal Justice: Corrections."

Criminal Justice

Criminal Justice, Law Enforcement

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.

Certificate of Achievement and Associate in Science Degree

The Certificate of Achievement can be obtained upon completion of the 30-unit major listed below. The Associate in Science Degree can be obtained upon completion of 60 units, including the major, general education requirements, and electives. 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 Criminal Justice, Law Enforcement Certificate of Achievement/Associate Degree 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. Demonstrate knowledge of the rules of evidence, legal definitions, and concepts of evidentiary law. Apply basic investigative proficiencies.
6. Demonstrate critical thinking and analytical skills acquired in the social sciences in preparation for continuance of college-level education

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
Select six units from the elective list below 6
    Total Units 30

Select six (6) units from the following . . . . **Units**
CJ 056 Juvenile Procedures 3
CJ 057 Criminal Justice Career Development. 3
CJ 064 Principles and Procedures of
       the Criminal Justice System 3
CJ 090 Vocational Work Experience -
       Law Enforcement . . . . 1 - 3

Recommended Electives
CIS 050 Microcomputer Applications
ENGL 004 Critical Thinking and Composition:
         Language in Context
ENGL 051 Technical Writing
OCED 070 Occupational Soft Skills
OCED 090 Occupational Work Experience
OCED 091 General Work Experience
OT 054A Beginning Keyboarding A
OT 054B Beginning Keyboarding B
OT 055A Intermediate Keyboarding/Word Processing A
OT 055B Intermediate Keyboarding/Word Processing B
SOCS 022 Ethnic, Racial and Minority Group Relations
         in Harmony and Conflict
SPAN 001 First Semester Spanish
SPAN 002 Second Semester Spanish

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Criminal Justice: Law Enforcement."

Criminal Justice

Associate in Science in Administration of Justice for Transfer

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.

Associate in Science in Criminal Justice for Transfer
The Associate in Science in Criminal Justice for Transfer degree is designed for students who plan to complete a bachelor's degree in Criminal Justice at a CSU campus. Students completing an Associate in Science in Criminal Justice 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 Associate in Science in Criminal Justice will be required to complete no more than 60 units after transfer to earn a bachelor's degree. The Associate in Science in Criminal 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 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.

   ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis.
   A "P" (Pass) grade is not an acceptable grade for courses in the major.

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.

Criminal 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 2 courses) . . . . **Units**
CJ 011 Community Relations 3
CJ 053 Legal Aspects of Evidence 3
CJ 051 Criminal Investigation. 3
CJ 056 Juvenile Procedures 3

List B (Select 2 courses) . . . . **Units**
SOC 001 Introduction to Sociology 3
PSYC 001 Introduction to Psychology. 3
CJ 064 Principles and Procedures of the
   Criminal Justice System 3
   Total Units **18**

Required Major Total Units. **18**
CSU General Education or IGETC Pattern Units . **37 - 39**
CSU Transferable Electives (as needed to reach
   60 transferable units)* . . . . **5 - 12**
Total Degree Units. **60**

* 0 - 9 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.

CJ 001   3.0 Units
Introduction to Criminal Justice

Course Advisory: Suiccessful completion of English 001 (minimum grade of C). Introduction to Criminal Justice. This course introduces students 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 principals 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. C-ID AJ 110. *Three hours lecture.*

CJ 002   3.0 Units
Concepts of Criminal Law

Course Advisory: Successful completion of English 001 (minimum grade of C). 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. C-ID AJ 120. *Three hours lecture.*

CJ 011   3.0 Units
Community Relations

Course Advisory: SCC minimum English and Math standards. This course 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 multiculteral population. Topics covered may include crime prevention, restorative justice, confluct resolution and ethics. C-ID AJ 160. *Three hours lecture.*

CJ 051   3.0 Units
Criminal Investigations

Course Advisory: CJ 001; SCC minimum English and Math standards. Fundamentals of investigation, crime scene search and recording, collection and preservation of evidence, scientific aid; interviews and interrogation, follow-up and case preparation. C-ID AJ 140. *Three hours lecture.*

CJ 052   3.0 Units
Investigative Report Writing

Course Advisory: CJ 001; CJ 002; CJ 051; Eligibility for English 001. 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. *Three hours lecture.*

Criminal Justice

CJ   053   3.0 Units
Legal Aspects of Evidence
Course Advisory: CJ 001; SCC minimum English and Math standards. 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. C-ID AJ 124. *Three hours lecture.*

CJ   056   3.0 Units
Juvenile Procedures
Course Advisory: Eligibility for English 001. 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 AJ 220. *Three hours lecture.*

CJ   057   3.0 Units
Criminal Justice Career Development
Course Advisory: CJ 001; SCC minimum English and Math standards. 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. *Three hours lecture.*

CJ   058   3.0 Units
Fundamentals of Crime and Delinquency
Course Advisory: CJ 001; SCC minimum English and Math standards. 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. *Three hours lecture.*

CJ   059   3.0 Units
Interviewing and Counseling
Course Advisory: CJ 001; SCC minimum English and Math standards. Overview of the interviewing and counseling techniques available to practitioners in law enforcement, the courts, and corrections emphasizing communication and practical skills. *Three hours lecture.*

CJ   060   3.0 Units
Probation and Parole
Course Advisory: CJ 001; CJ 058; SCC minimum English and Math standards. 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. *Three hours lecture.*

CJ   062   3.0 Units
Legal Aspects of Correction
Course Advisory: CJ 058; SCC minimum English and Math standards. Presents the legal aspects of corrections and code provisions relative to all phases of the correctional system. *Three hours lecture.*

CJ   064   3.0 Units
Principles and Procedures of the Criminal Justice System
Course Advisory: CJ 001; SCC minimum English and math standards. 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. *Three hours lecture.*

Criminal Justice

CJ 090   **1.0 to 3.0 Units**
Vocational Work Experience:
Law Enforcement

Course Advisory: CJ 001. Volunteer service in a variety of governmental and private criminal justice agencies related to Law Enforcement. One unit of credit may be earned for each 75 hours paid or 60 hours unpaid work per semester to a maximum of 3 units per semester. Students who enroll in CJ090 may not enroll in CJ 091 during the same semester. This is a Pass/No Pass only course. NOTE: Combined units for all work experience courses shall not exceed 12. One hour lecture and five to twenty hours by arrangement. Students may take this course up to the maximum number of units over multiple semesters. To determine the correct number of units in which to enroll, refer to the following formula for paid employment*: Full Semester Sections: 1 unit = 5 hours per week; 2 units = 10 hours per week; 3 units = 15 hours per week, *unpaid work requires fewer hours per week.

CJ 091   **1.0 to 3.0 Units**
Vocational Work Experience: Corrections

Course Advisory: CJ 001. Volunteer service in a variety of governmental and private criminal justice agencies related to Corrections. One unit of credit may be earned for each 75 hours paid or 60 hours unpaid work per semester to a maximum of 3 units per semester. Students enrolled in CJ 091 may not enroll in CJ 090 during the same semester. This is a Pass/No Pass only course. NOTE: Combined units for all work experience courses shall not exceed 12. Students may take this course up to the maximum number of units over multiple semesters. One hour lecture and five to twenty hours by arrangement. To determine the correct number of units in which to enroll, refer to the following formula for paid employment* Full Semester Sections: 1 unit = 5 hours per week; 2 units = 10 hours per week; 3 units = 15 hours per week. *unpaid work requires fewer hours per week.

Drafting

Drafting and Design Technician

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.

Certificate of Achievement and Associate in Science Degree
A Certificate of Achievement can be obtained upon completion of the 30-unit major listed below The Associate in Science Degree can be obtained by completing a total of 60 units, including the major, general education requirements, and electives. 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 Drafting and Design Technician Certificate of Achievement/Associate Degree will be able to:
1. Demonstrate proficiency at reading, drawing and dimensioning industry standard drawings in the fields of Mechanical, Civil, Architectural, and Electronic drafting and design.
2. Demonstrate proficiency using industry standard computer aided drafting/design CADD software programs.

REQUIRED COURSES . . . . **Units**
DRFT 045 Introduction to
        Computer-Aided Drafting (CAD) 3
DRFT 046 Advanced CAD 3
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 125 Solid Modeling with Solidworks. 3
IT 140 Industrial Materials 3
IT 151 Vocational Mathematics. 3
Select 3 units from Recommended Electives 3
    Total Units 30

Recommended Electives (select 3 units)   **Units**
ART 014 Introduction to Drawing . . . . 2 – 3.5
DRFT 050 Basic Drafting 1.5
DRFT 057 Mechanical Drafting - Level II 3
DRFT 065 Architectural Drafting II 3
DRFT 079 Blueprint Reading 3
DRFT 085 Civil Drafting II 3
DRFT 092 Special Problems. . . . . 1 - 3
DRFT 130 Advanced Printed Circuit Board Design 3
DRFT 140 Surveying 3
ENGR 001 Introduction to Engineering 1
HORT 030 Landscape Design I 3
OCED 070 Occupational Soft Skills 1.5
OCED 071 Occupational Soft Skills 1,5
OCED 090 Occupational Work Experience . . . . 1 - 8
OCED 091 General Work Experience. . . . . 1 - 6

NOTE: Many of the advanced courses will require CAD. It is important to take DRFT 045 (Intro. to CAD) as early in your program as possible. College credit may be obtained with credit by examination in DRFT 045, 050, and 060 or they may be waived.

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Drafting Technician."

Drafting

Survey and Civil Drafting Technician

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.

Certificate of Achievement and Associate Degree
A Certificate of Achievement can be obtained upon completion of 27 core requirement units. An Associate in Science degree may be obtained by completing 60 units, including the required courses in the major, the general education requirements, and electives. All courses for this 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 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) 3
DRFT 046 Advanced CAD 3
DRFT 060 Architectural Drafting I. 3
DRFT 080 Civil Drafting I 3
DRFT 085 Civil Drafting II 3
DRFT 140 Surveying 3
GEOL 010 Introduction to
        Geographic Information Systems 3
OR
GEOG 010 Introduction to Geographic
        Information Systems 3
IT 151 Vocational Mathematics. 3
Select 3 units from Recommended Electives 3
                                    Total Units 27

Recommended Electives (Select 3 units) . . . . **Units**
DRFT 050 Basic Drafting 1.5
DRFT 065 Architectural Drafting II 3
DRFT 079 Blueprint Reading 3
DRFT 092 Special Problems . . . . 1 – 3
ENGR 001 Introduction to Engineering 1
IT 050 Alternative Energy Technologies 3
OCED 070 Occupational Soft Skills 1.5
OCED 071 Occupational Portfolio Development 1.5
OCED 090 Occupational Work Experience. . . . . 1 – 8
OCED 091 Occupational Work Experience. . . . . 1 – 6

*Course advisory for all courses: Solano Community College minimum English and Math Standards.

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Survey Technician / Civil Drafting Technician."

Drafting

DRFT 045 3.0 Units
**Introduction to Computer-
Aided Drafting (CAD)**
Course Advisory: SCC minimum English and Math standards. Designed to introduce 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. *Two hours lecture, three hours lab.*

DRFT 046 3.0 Units
Advanced Computer Aided Drafting (CAD)
Prerequisite: DRFT 045 with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. Designed to develop advanced proficiency in CAD. Covers symbol libraries, isometrics, external references (XREFS), 3-D drawing, basic solid modeling, tables and customization techniques. *Two hours lecture, three hours lab.*

DRFT 050 1.5 Units
Basic Drafting
Course Advisory: SCC minimum English and Math standards. This course presents the fundamentals of drafting using hand drafting tools—pencil, paper, triangles, scales, compass, etc. Students will use traditional methods of construction for polygons, orthographic views, pictorial drawings, simple architectural floor plans and other technical drafting constructions and will be giving hands on training in technical sketching. This course is intended to give additional training in visualization and object manipulation without the aid of a computer and is a recommended elective for drafting students, or for non-drafting students (in fields such as welding, mechatronics, engineering, etc) who may need to create technical drawings without a computer. *One-half hour lecture, three hours lab.*

DRFT 055 3.0 Units
Mechanical Drafting Level I
Prerequisite: DRFT 045 with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. This course teaches 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. *Two hours lecture, three hours lab.*

DRFT 057 3.0 Units
Mechanical Drafting Level II
Prerequisite: DRFT 055 with a minimum grade of C. Course Advisory: IT 151 (may be taken concurrently); SCC minimum English and Math standards. A continuation of Drafting 55, with special emphasis on advanced electro-mechanical packaging and design, Geometric Dimension and Tolerancing (GD&T) terminology and drawing standards, gears, and advanced working drawings. Students will create designs using electronic components (Printed Circuit Boards, connectors, LEDs, etc) and 3D printed models. *Two hours lecture, three hours lab.*

DRFT 058 3.0 Units
Solid Modeling with Solidworks
Course Advisory: SCC minimum English standards; knowledge of drafting concepts. This course is designed to teach 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. *Two hours lecture, three hours lab.*

DRFT 060 3.0 Units
Architectural Drafting I
Prerequisite: DRFT 045 with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. Covers 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. *Two hours lecture, three hours lab.*

DRFT 065 3.0 Units
Architectural Drafting II
Prerequisite: DRFT 060 with a minimum grade of C. Course Advisory: IT 151 (may be taken concurrently); SCC minimum English and Math standards. A continuation of Drafting 60 with special emphasis multiple story residential design. Students will create an industry standard, two-story house design on a 12-14 sheet plan set. This course also exposes students to famous architects, past and present. *Two hours lecture, three hours lab.*

Drafting

DRFT   075   **3.0 Units**
Electronic Drafting
Prerequisite: DRFT 045 with a minimum grade of C.
Course Advisory: SCC minimum English and Math
standards. 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. *Two hours lecture, three
hours lab.*

DRFT   079   **3.0 Units**
Blueprint Reading
*Course Advisory: SCC minimum English and Math
standards.* Designed to provide 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. *Two and one-half hours lecture, one
and one-half hours lab.*

DRFT   080   **3.0 Units**
Civil Drafting I
*Prerequisite: DRFT 045 with a minimum grade of C.
Course Advisory: IT 151 with a minimum grade of C. SCC
minimum English and Math standards.* An introductory
course in 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. *Two hours lecture, three hours lab.*

DRFT   085   **3.0 Units**
Civil Drafting II
*Prerequisite: DRFT 080 with a minimum grade of C.
Course Advisory: IT 151 with a minimum grade of C; SCC
minimum English and Math standards.* Designed for the
advanced civil drafting student with emphasis on
computer programs and experience compatible with
the industry standards. Includes the study of plan and
profile, cross-section and earthwork calculations. *Two
hours lecture, three hours lab.*

DRFT   092   **1.0 Unit**
Special Problems
Prerequisite: DRFT 050. Individualized projects for
advanced students who demonstrate competency to
carry out individual work. *Three to nine hours by
arrangement.*

DRFT   130   **3.0 Units**
Electronic Drafting With CAD
*Prerequisite: DRFT 075 with a minimum grade of C.
Course Advisory: SCC minimum English and Math
standards.* The student will learn how to design
complex circuit boards from schematic layout to
artwork generation. Course requires completion of a
complete set of drawings for a printed circuit board,
including proper documentation, all based on industry
standards. Through-hole and surface mount
technology are studied. *Two hours lecture, three hours
lab.*

DRFT   140   **3.0 Units**
Surveying
*Prerequisite: DRFT 080 with a minimum grade of C.
Course Advisory: IT 151 with a minimum grade of C; SCC
minimum English and Math standards.* 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. *Two hours lecture, three hours
lab.*

Economics

For Early Childhood Education, see Child Development and Family Studies.

Program Description
Economics is the study of how people make choices when faced with scarcity. It is therefore the study of the process of decision-making by individuals, business, governments, or any other group that must make such choices, and the study of the institutional context in which these decisions are made.

Associate Degree
Not offered in this discipline

ECON   001   **3.0 Units**
Principles Of Economics (Macroeconomics)
Prerequisite: MATH 330 with a minimum grade of C. Course Advisory: Eligibility for ENGL 001. 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. C-ID ECON 202. *Three hours lecture.*

ECON   002   **3.0 Units**
Principles Of Economics (Microeconomics)
Prerequisite: MATH 330 with a minimum grade of C. Course Advisory: Eligibility for ENGL 001. This is 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 ECON 201. *Three hours lecture.*

ECON   010   **3.0 Units**
Global Economics
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. This is an introductory course that examines patterns of international trade and development. In this course students will understand how economies around the world are linked. Students will examine issues of global trade, trade policies, exchange rate systems, developing countries and controversies regarding trade policy. Students may be required to complete work online. *Three hours lecture.*

Engineering

Program Description
The field of Engineering deals with the design, production, and testing of new products as well as maintaining and improving existing ones. Engineers are professionals who apply mathematical and scientific principles to solve technical problems.

Associate Degree
Not offered in this discipline.

ENGR 001 1.0 Unit
Introduction To Engineering
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. 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. Possible field trips. *One hour lecture.*

ENGR 017 5.0 Units
Introduction To Electrical Engineering
Prerequisite: MATH 023 with a minimum grade of C (may be taken concurrently), and PHYS 007 with a minimum grade of C. Course Advisory: Eligibility for English 001. Required for engineering majors, the course presents a study of basic circuit analysis techniques including Kirchhoff's laws, mesh-current, node-voltage, Thevenin and Norton equivalent; transient and steady-state responses of passive circuits; sinusoidal steady-state analysis; power calculations; operational amplifier; semiconductor devices. Weekly homework assignments and written tests, including a comprehensive final examination and lab reports, will be used to evaluate student success. Four hours lecture, three hours lab.

ENGR 030 4.0 Units
Engineering Mechanics: Statics
Prerequisite: A minimum grade of C in both MATH 021, and PHYS 006. Course Advisory: Eligibility for English 001. This course, which is required for engineering majors, presents 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. *Four hours lecture.*

ENGR 045 4.0 Units
Properties Of Materials
Prerequisite: PHYS 006 and CHEM 001. Course Advisory: Eligibility for English 001. This required course for engineering majors 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. *Three hours lecture, three hours lab.*

English

Program Description

The Associate in Arts Degree 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. Degree in English will also satisfy the requirements for the AA-T degree in English. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Associate in Arts Degree

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 Degree in English can be obtained by completing a total of sixty (60) units, including the twenty-five (25) to twenty-six (26) units for the major, general education requirements, and electives. 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 English Associate Degree 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.

REQUIRED COURSES . . . . **Units**

The courses are listed in the suggested sequence.
ENGL 002 Critical Thinking and
          Writing About Literature 4
Select 2 courses (6 units) from List A 6
Select 2 courses (6 units) from List B 6
Select 2 courses (6 units) from List C 6
Select 1 courses (3 units) from List D 3
                        Total Units 25

List A: Select two courses (6 units). . . . . 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 (6 units). . . . . 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
ENGL 025 Introduction to Drama as Literature. 3
Any course from LIST A not already used 3

List C: Select two courses (6 units). . . . . Units

ENGL 007 Creative Writing II. 3
ENGL 010 Creative Writing III 3
ENGL 012 Modern Women Writers. 3
ENGL 014 The Bible as Literature 3
ENGL 016 Masterpieces of Western World Literature . . . 3
ENGL 018 Introduction to Mythology 3
ENGL 033 Survey of African American Literature
             in the United States 3
ENGL 036 Multi-Ethnic Literature in America 3
ENGL 038 The California Experience in Literature. 3
ENGL 044 Introduction to Shakespeare 3
ENGL 058 Creative Writing: The Literary Magazine I . . . 3
Any course from List A or B not already used 3

List D: Select one course (3 units) . . . . Units

ENGL 005 Advanced Composition 3
ENGL 049 English Honors . . . . 1 – 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

English

Associate in Arts in English for Transfer

Program Description
The Associate in Arts Degree in English for Transfer (AA-T) 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.

Associate in Arts in English for Transfer
Students who complete this 19-unit major 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 mor information on university admission and transfer requirements,

To earn the Associate in Arts in English for Transfer degree, 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 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 an 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
Select two classes from List A (6 units) 6
Select two classes from List B (6 units) 6
Select one class from List C (3 units) 3
    Total Units **19**

LIST A: Select two (6 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 (6 units) . . . . **Units**
ENGL 006 Creative Writing I 3
ENGL 007 Creative Writing II. 3
ENGL 010 Creative Writing III 3
ENGL 012 Modern Women Writers. 3
ENGL 014 The Bible as Literature 3
ENGL 016 Masterpieces of Western World Literature . . . 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 025 Introduction to Drama as Literature. 3
ENGL 033 Survey of African American
        Literature in the United States. 3
ENGL 036 Multi-Ethnic Literature in America 3
ENGL 038 The California Experience in Literature. 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

English

LIST C: Select one (3 units) . . . . **Units**
ENGL 005 Advanced Composition 3
ENGL 059 Creative Writing: The Literary Magazine II . . 3
HUMN 001 What It Means To Be Human 3
Any course from LIST A or B not already used. 3

Required Major Total Units. **19**
CSU General Education or IGETC Pattern Units . 37 - 39
CSU Transferable Electives (as needed to reach
     60 transferable units)* . . . . **11 - 13**
  Total Degree Units **60**

 * *9 units may be double counted toward both the major area of
   emphasis and CSU General Education or IGETC Pattern.
   Consult with a counselor for more information on completing
   this degree.*

ENGL 001   3.0 Units
College Composition
*Corequisite: LR 010. Prerequisite: A score of 102 or better
within the last three years on the sentence skills section
of the assessment test; or SAT verbal score of at least 500;
or ACT score of at least 23; or recommendation of a
counselor or English instructor based on a Multiple
Measures Evaluation; or a grade of "Pass" and a score of
8 or more on the Composition Mastery Final Examination
upon completion of ENGL 305 or 350 or 355; or a grade
of "Credit" in ENGL 370 or 348E or 380 or 348G or 360.*
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. Students are required to
write 6-10 essays, one of which may be a research
paper, based on essays, literature read in class, and/
or personal experience. *Three hours lecture.*

ENGL 002   4.0 Units
Critical Thinking and Writing
About Literature
Prerequisite: ENGL 001 with a minimum grade of C. 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.
Essay examinations, critical papers, and some research
projects are required. C-ID ENGL 110. *Four hours
lecture.*

ENGL 004   3.0 Units
Critical Thinking and Composition:
Language In Context
*Prerequisite: ENGL 001 with a minimum grade of C.
Course Advisory: SCC minimum Math standard.* 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 it requires students to write their own analytical
and argumentative essays. Essay examinations and
critical papers are required. *Three hours lecture.*

ENGL 005   3.0 Units
Advanced Composition
Prerequisite: ENGL 001 with a minimum grade of C. A
writing course which continues the development of
expository writing skills through the study of sentence
structure and variety, appropriate diction, and
rhetorical devices and through reading and discussing
professional and student essays. Emphasis is on
improving student's expository writing skills through
peer and teacher critiques, revision, and developing
proofreading skills. *Three hours lecture.*

ENGL 006   3.0 Units
Creative Writing I
Prerequisite: ENGL 001 with a minimum grade of C. 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. Frequent writing is
required. C-ID ENGL 200. *Three hours lecture.*

English

ENGL   007   **3.0 Units**
Creative Writing II
Prerequisite: ENGL 006 with a minimum grade of C. An advanced study of creative writing skills. Students will be expected to show proficiency in at least one genre (poetry, short story, drama, novel). Frequent writing and intense individual and class criticism of student work are requirements. *Three hours lecture.*

ENGL   010   **3.0 Units**
Creative Writing III
Prerequisite: ENGL 007 with a minimum grade of C. 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. *Three hours lecture.*

ENGL   012   **3.0 Units**
Modern Women Writers
Prerequisite: ENGL 001 with a minimum grade of C. A study of 20th century women writers, concentrating on British and North American women writers. The course focuses on novels, short stories, poems, plays and essays written by women and attempts to define and assess the contributions of women writers to 20th century literature. Styles and themes employed in the literature, as well as the cultural and political background in which it was written, will also be examined and analyzed. Examinations and critical papers are required. *Three hours lecture.*

ENGL   014   **3.0 Units**
The Bible As Literature
Prerequisite: ENGL 001 with a minimum grade of C. A general survey of narratives, drama, poetry, biography, history, culture, and prophecy of the 'Old Testament,' 'The Apocrypha,' and the 'New Testament' with emphasis on literary interpretation of their content and techniques. *Three hours lecture.*

ENGL   016   **3.0 Units**
Masterpieces of Western World Literature
Prerequisite: ENGL 001 with a minimum grade of C. A study of a selection of major works in Western World literature from the Greeks to the present, excluding British Isles and American writers. This course will examine these selected major works, introducing the student to some of the most important literary efforts in Western World literature, as well as the works' historical and cultural contributions. Critical papers and examinations are required. *Three hours lecture.*

ENGL   018   **3.0 Units**
Introduction to Mythology
Prerequisite: ENGL 001 with a minimum grade of C. 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. Examinations and papers are required. *Three hours lecture.*

ENGL   021   **3.0 Units**
Introduction to Poetry
Prerequisite: ENGL 001 with a minimum grade of C. 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. Examinations and critical papers are required. *Three hours lecture.*

ENGL   023   **3.0 Units**
Introduction to the Modern Novel
Prerequisite: ENGL 001 with a minimum grade of C. 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. Critical papers and examinations are required. *Three hours lecture.*

ENGL   024   **3.0 Units**
Introduction to the Short Story
Prerequisite: ENGL 001 with a minimum grade of C. 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. Examinations and critical papers are required. *Three hours lecture.*

English

ENGL 025   **3.0 Units**
Introduction to Drama as Literature
Prerequisite: ENGL 001 with a minimum grade of C. A study of the types of dramatic literature/tragedy, comedy, and tragi-comedy/through a historical survey of representative dramas. Students will read, analyze, compare and contrast selected plays in class. Examinations and critical papers are required. *Three hours lecture.*

ENGL 030   **3.0 Units**
Survey of American Literature I
Prerequisite: ENGL 001 with a minimum grade of C. 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. Written examinations and critical papers are required. C-ID ENGL 130. *Three hours lecture.*

ENGL 031   **3.0 Units**
Survey of American Literature II
Prerequisite: ENGL 001 with a minimum grade of C. 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. Written examinations and critical papers are required. C-ID ENGL 135. *Three hours lecture.*

ENGL 033   **3.0 Units**
Survey of African American Literature in the United States
Prerequisite: ENGL 001 with a minimum grade of C. A study of representative selections of poetry, short fiction, short drama, and essays written by African Americans from 1760 to the present. The ethnic context, artistic techniques, and literary themes will be studied. Critical papers and written examinations are required. *Three hours lecture.*

ENGL 036   **3.0 Units**
Multicultural Literature in America
Prerequisite: ENGL 001 with a minimum grade of C. A study of representative literature by various American multicultural writers: Asian American, African American, European American, Latina/o, and Native American. Written examinations and critical papers are required. *Three hours lecture.*

ENGL 038   **3.0 Units**
The California Experience in Literature
Prerequisite: ENGL 001 with a minimum grade of C. A study of literature written by California writers, including historical and cultural backgrounds, variety of regional and ethnic experiences, and unifying themes, concepts, and dreams. *Three hours lecture.*

ENGL 040   **3.0 Units**
Survey of English Literature I
Prerequisite: ENGL 001 with a minimum grade of C. The study of works of major 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. Examinations and critical papers are required. C-ID ENGL 160. *Three hours lecture.*

ENGL 041   **3.0 Units**
Survey of English Literature II
Prerequisite: ENGL 001 with a minimum grade of C. 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. Examinations and critical papers are required. C-ID ENGL 165. *Three hours lecture.*

English

ENGL 044   **3.0 Units**
Introduction to Shakespeare
Prerequisite: ENGL 001 with a minimum grade of C. 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. Examinations and critical papers are required. *Three hours lecture.*

ENGL 046   **3.0 Units**
American Sign Language 1
Prerequisite: Eligibility for English 001. An introductory course on 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. *Three hours lecture.*

ENGL 047   **3.0 Units**
American Sign Language 2
Prerequisite: ENGL 046. Emphasis is 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 examination. Some interaction with the deaf population is required. *Three hours lecture.*

ENGL 049   **1.0 to 3.0 Units**
English Honors
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. 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 051   **3.0 Units**
Technical Writing
Prerequisite: A score of 102 or better in the last three years on the sentence skills section of the assessment test; or recommendation of a counselor or English instructor based on a Multiple Measures Evaluation; or a grade of 'Credit' and a score of 8 or more on the Composition Mastery Final Examination upon completion of ENGL 305 or 350 or 355; or a grade of 'Credit' in ENGL 370. Course Advisory: Keyboarding skills. The fundamentals of technical writing, including memos, forms, resumes, proposals, and formal and informal reports. Emphasis is on techniques for organizing, evaluating, and presenting information in the simple, direct, and objective style required in modern technical communications. Use of word processing, desktop publishing, graphics, tables, appropriate fonts, layout, and format will also be emphasized. *Three hours lecture.*

ENGL 058   **3.0 Units**
Creative Writing: The Literary Magazine
Prerequisite: ENGL 001 with a minimum grade of C. A course in the contemporary American Literary magazine which will also produce its own literary magazine: 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. *Three hours lecture.*

English

ENGL 059   **3.0 Units**
Creative Writing: The Literary Magazine II
Prerequisite: ENGL 058 with a minimum grade of C. 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. *Three hours lecture.*

ENGL 087   **1.0 to 2.0 Units**
Drama in Performance
Prerequisite: Permission of instructor to confirm opening. Course Advisory: ENGL 001. Introduction to the principles of drama through a study of plays being presented at the Oregon Shakespearean Festival. A travel study course. *Sixteen to thirty-two hours lecture. (1-week course)*

ENGL 305   **3.0 Units**
Introductory Reading and Writing Skills
Intensive instruction in developmental language processing skills, reading and writing skills, and general classroom survival skills. Success in this class will be based on attendance, satisfactory completion of in- and out-of class reading and writing assignments and the Composition Mastery Examination. This is a Pass/No Pass only course. *Three hours lecture.*

ENGL 310   **0.5 to 1.50 Units**
Writing Skills Lab
Upon registration, each student's writing sample will be used to identify his/her individual writing problems, and an individualized program will be designed to provide instruction in those problem areas. Credit will be earned upon successful completion and mastery of the student's course of study and an appropriate number of hours as specified in each student's contract. This is an Open Entry/Open Exit, Pass/No Pass only course. Students may take this course up to the maximum number of units over multiple semesters. *Two hours lab.*

ENGL 310A   **1.5 Units**
Introductory Reading and Writing Skills
Intensive instruction in developmental language processing skills, reading and writing skills, and general college survival skills. Success in this lab will be based on attendance, satisfactory completion of in-class reading and writing assignments. This is a Pass/No Pass only course. *Two hours lab, two and one-half hours by arrangement.*

ENGL 350   **3.0 Units**
Reading and Writing Skills for ESL Students
Corequisite: This course must be taken together with 1.5 units of English 350L. Prerequisite: ENGL 350L (may be taken concurrently). A score of 51-69 within the last three years on the sentence skills section of the assessment test; or Recommendation of a counselor or English instructor based on a Multiple Measures Evaluation; or A grade of Pass or better and a score of 4 or more on the Composition Mastery Final Examination upon completion of ENGL 305 or ESL 6. Combines writing and reading practice to increase skill in developing clear paragraphs and short essays. This course includes an intensive study of grammar, reading comprehension, and ways to find ideas. ESL students will acquire new language patterns for writing standard American English. Credit for this course will be given only when the requirements of both components have been completed. This is a Pass/No Pass only course. *Three hours lecture.*

ENGL 350L   **1.5 Units**
English 350 Lab
Corequisite: ENGL 350. Upon registration in English 350L, students will go through structured curriculum which develops their reading and writing skills. Credit will be earned upon successful completion and mastery of the course of study and completion of the appropriate number of hours as specified. Students who fail the coreq ENGL 350 twice must enroll in ENGL 310 for individualized instruction. This is a Pass/No Pass only course. *Four and one-half hours Lab.*

English

ENGL 355   **3.0 Units**
Writing and Reading Skills
Corequisite: This course must be taken together with 1.5 units of 355L. Prerequisite: A score of 51-69 within the last three years on the sentence skills section of the assessment test; or recommendation of a counselor or English instructor based on a Multiple Measures Evaluation; or a grade of "Pass" or better and a score of 4 or more on the Composition Mastery Final Examination upon completion of ENGL 305 or 350. Combines writing and reading practice to increase skill in developing clear paragraphs and short essays. This course includes an intensive study of grammar, reading comprehension, and ways to find ideas. Credit for this course will be given only when the requirements of both components have been completed. This is a Pass/No Pass only course. *Three hours lecture.*

ENGL 355L   **1.5 Units**
English 355 Lab
Corequisite: ENGL 355. Upon registration in English 355L, students will go through structured curriculum which develops their reading and writing skills. Credit will be earned upon successful completion and mastery of the course of study and completion of the appropriate number of hours as specified. This is a Pass/No Pass only course. *Four and one-half hours lab.*

ENGL 359   **5.0 Units**
Accelerated English
This is an intensive, accelerated English course which gives students the tools to read and write the sort of sophisticated texts required of them in transfer level courses. This course covers the same content as English 360, but it is designed for students who are eligible for English 310A or English 355 or an assessment score of 1-69 on the sentence skills portion of the assessment test. There is no lab component to this course. *Five hours lecture.*

ENGL 360   **5.0 Units**
Focused English Fundamentals
Prerequisite: A score of 70-101 within the last three years on the sentence skills section of the assessment test; or recommendation of a counselor or English instructor based on a Multiple Measures Evaluation; or a grade of "Pass" and a score of 6 or more on the Composition Mastery Final Examination upon completion of English 305 or 350 or 355 or 359 or ESL 6. This is an intensive English course which gives students the tools to read and write the sort of sophisticated texts required of them in transfer level courses. This course covers the same content as English 359, but it is designed for students who are eligible for English 370 or English 380 or have an assessment score of 70-101 on the sentence skills portion of the assessment test. There is no lab component to this course. This is a Pass/No Pass only course. *Five hours lecture.*

ENGL 370   **3.0 Units**
English Fundamentals
Corequisite: ENGL 370L. Prerequisite: A score of 70-101 within the last three years on the sentence skills section of the assessment test; or recommendation of a counselor or English instructor based on a Multiple Measures Evaluation; or a grade of Pass and a score of 6 or more on the Composition Mastery Final Examination upon completion of ENGL 305 or 350 or 355. Course Advisory: ENGL 353. Principles and practice of English composition, emphasizing analytical paragraphs and essays; critical reading, thinking, and writing; principles of essay and paragraph construction; grammar and punctuation; construction of effective sentences. Credit for the course will be given only when the requirements for all components have been met. This is a Pass/No Pass only course. *Three hours lecture.*

ENGL 370L   **0.5 Unit**
English Fundamentals Lab
Corequisite: ENGL 370. Upon registration in English 370L, students will go through structured curriculum which develops their reading and writing skills. Credit will be earned upon successful completion and mastery of the course of study and completion of the appropriate number of hours as specified. Students who fail the coreq ENGL 370 twice must enroll in ENGL 310 for individualized instruction. This is a Pass/No Pass only course. *One and one-half hours lab.*

English

ENGL 380   **3.0 Units**
Advanced English Fundamentals
Prerequisite: A score of 90-101 within the last three years on the sentence skills sections of the assessment test. Course Advisory: ENGL 353. Principles and practice of English composition, emphasizing analytical paragraphs and essays; critical reading, thinking, and writing; principles of essay and paragraph construction; grammar and punctuation; construction of effective sentences. This is a Pass /No Pass only course. *Three hours lecture.*

Reading

ENGL 062   **3.0 Units**
Analytical Reading
Prerequisite: Eligibility for ENGL 370. Course Advisory: ENGL 353. A college-level reading course designed to improve and enhance the student's ability to understand inferential reading passages. Emphasis is on the development of critical reading skills, including the ability to understand the author's point of view and to engage in textual analysis. In addition, the student should develop the ability to successfully critique college-level reading material by analyzing a variety of prose structures. *Three hours lecture.*

ENGL 320   **.0.5 to 1.5 Units**
Reading Improvement Lab
Designed to identify students' individual reading needs and to provide individualized instruction. Students will be assigned a worktext based on assessment in consultation with a Reading instructor. Credit will be earned when student has successfully completed the assigned course of study and appropriate number of lab hours as specified in each student's contract. This is an Open Entry/Open Exit, Pass/No Pass only course. Students may take this course up to the maximum number of units over multiple semesters. *One to six hours by arrangement.*

ENGL 331   **3.0 Units**
Vocabulary Strategies for Reading Comprehension
Course Advisory: CPT Reading score of 35 to 49. A vocabulary skills development course designed to help students learn new words to understand reading. This course will emphasize strategies for word analysis and dictionary use to identify, learn, use, and retain meanings of unfamiliar words. This is a Pass/No Pass only course. *Three hours lecture.*

ENGL 353   **3.0 Units**
Textbook Reading Strategies
Course Advisory: CPT Reading score of 50 or above. Reading strategies and practice to improve understanding, enlarge vocabulary, and improve retention. Students will learn how to comprehend main idea-supporting detail relationships, use the knowledge they already have, recognize organizational patterns and author's purpose, and respond thoughtfully through discussion and writing. To develop skills in college study reading, primary emphasis is on reading materials typically found in textbooks. This is a Pass/No Pass only course. *Three hours lecture.*

English as a Second Language

ESL 006   **3.0 Units**
ESL: Composition Skills
Prerequisite: Minimum grade of C in ESL 078 or ESL 079. Course Advisory: ESL Assessment Test Score: Level 1. An advanced class for non-native speakers of English which offers practice in academic writing. Emphases include paragraph and essay logic, writing from sources, advanced sentence structure, and vocabulary building. Frequent compositions, quizzes, graded exercises, and a final exam are required. This course is a prerequisite for English 350 for those students who score 31-75 on the ESL assessment test. *Three hours lecture.*

ESL 055   **3.0 Units**
Advanced ESL Reading
Prerequisite: A minimum grade of C in ESL 078, or ESL 079, or ESL Assessment Test Score: Level 1. This course provides the advanced ESL student with extensive reading practice using guided exercises to develop effective reading strategies and encourages reflective and critical thinking through discussions and journal responses. Comprehension and writing exercises, quizzes and a final exam are required for the successful completion of this course. *Three hours lecture.*

ESL   074   **6.0 Units**
Intermediate Integrated ESL Skills
Prerequisite: A minimum grade in ESL 372 and 374, or ESL 334 with a minimum grade of C, or ESL 334B with a minimum grade of C, or LOEP score: 2/3 in teh range of 50-85. ESL 074 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. *Six hours lecture.*

ESL   074A   **3.0 Units**
Intermediate Integrated ESL Skills: Part 1
Prerequisite: Minimum grade of C in ESL 372 and ESL 374, or ESL 334 with a minimum grade of C, or ESL 334B with a minimum grade of C, or LOEP Score: 2/3 socres in the range of 50 - 85. ESL 074A is the first half of our 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. *Three hours lecture.*

ESL   074B   **3.0 Units**
Intermediate Integrated ESL Skills Part 2
Prerequisite: A minimum grade of C in ESL 372 or 374, or ESL 334 with a minimum grade of C, or a minimum grade of C in ESL 334A and 334B, or LOEP Scores: 2/3 scores 50 - 85, or instructor approval. Course Advisory: ESL 074A with a minimum grade of C. ESL 074B is the second half of our 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. *Three hours lecture.*

ESL   077   **3.0 Units**
Conversation/Pronunciation Skills
Corequisite: Concurrent enrollment in ESL 077L. Prerequisite: A minimum grade of C in ESL 372, or ESL 373, or ESL 374. Course Advisory: ESL Assessment Test Score: At or above Level 2. 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. *Three hours lecture.*

ESL   077L   **0.5 Unit**
ESL 077 Lab
Corequisite: ESL 077. Course Advisory: Familiarity with basic reading and writing skills: English alphabet letter names, numbers, and ability to follow directions. 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. 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. *One and one-half hours lab.*

ESL   078   **3.0 Units**
Intermediate ESL Reading
Prerequisite: A minimum grade of C in ESL 372 or ESL 373 or ESL 374. Course Advisory: ESL Assessment Test Score: At or above Level 2. Offers development in reading and vocabulary improvement for the intermediate ESL student. College-level reading passages range from narration to argumentation. Students practice the phonetic structure of the English sound and spelling systems to decrease confusion in reading comprehension. Graded exercises, quizzes, comprehension tasks, unit tests, and a final exam are required for successful completion of this course. *Three hours lecture.*

English

ESL   079   3.0 Units
Intermediate Sentence Structure:
The English Verb System
Prerequisite: A minimum grade of C in ESL 372 or ESL 373 or ESL 374. Course Advisory: ESL Assessment Test Score: At or above Level 2. An intermediate English course for non-native speakers focusing on the correct use of basic English sentence structures in oral communication. Knowledge of the structures reinforced and verified through written assignments. *Three hours lecture.*

ESL   087   3.0 Units
Advanced Sentence Structure:
Written English
Prerequisite: Minimum grade of C in ESL 078 or 079, or ESL Assessment Test score: Level 1. An advanced English course for non-native speakers focusing on the correct use of basic English structures in written communication. Knowledge of the structures reinforced and verified through written assignments. Continuation of ESL 079. *Three hours lecture.*

ESL   094   6.0 Units
Advanced ESL Integrated Skills
Prerequisite: ESL078 with a minimum grade of C or ESL079 with a minimum grade of C or LEOP scores; at least 2/3 scores over 85. ESL 094 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. ESL 094 prepares ESL students for the reading and writing demands of 300-level English courses. *Six hours lecture.*

ESL   094A   3.0 Units
Advanced ESL Integrated Skills Part 1
Prerequisite: A minimum grade in ESL 078, or ESL 079, or ESL 074, or ESL 074B, or LEOP scores: at least 2/3 over 85, or instructor approval. ESL 094A is the first half of our 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. *Three hours lecture.*

ESL   094B   3.0 Units
Advanced ESL Integrated Skills Part 2
Prerequisite: A minimum grade of C in ESL 074, or a minimum grade of C in both ESL 078 and ESL 079, or a minimum grade of C in both ESL 074A and ESL 074B, or LOEP scores: 2/3 above 85, or intstructor approval. Course Advisory: ESL 094A with a minimum grade of C. ESL 094B is the second half of our 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. *Three hours lecture.*

ESL   310A   1.5 Units
Introductory Reading and Writing Skills
Intensive instruction in developmental language processing skills, reading and writing skills, and general college survival skills. Success in this lab will be based on attendance, satisfactory completion of in-class reading and writing assignments. This is a Pass/No Pass course. *Two hours lab, two and one-half hours by arrangement.*

English

ESL 330 **0.5 to 1.5 Units**
ESL Lab
Course Advisory: Familiarity with basic reading and writing skills: English alphabet letter names, numbers, and ability to follow directions. 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. This is an Open Entry/Open Exit, Pass/No Pass only course. Students may take this course up to the maximum number of units over multiple semesters. *One and one-half to four and one-half hours lab.*

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 test score for "Level 1." ESL 334 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. *Six hours lecture.*

ESL 334A **3.0 Units**
Introductory Integrated ESL Skills: Reading, Writing, and Grammar Part 1
Prerequisite: LOEP Assessment test score up to 30. ESL 374A is the first half of our 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. *Three hours lecture.*

ESL 334B **3.0 Units**
Introductory Integreated 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. ESL 374B is the second half of our 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. *Three hours lecture.*

ESL 359 **5.0 Units**
Accelerated English
This is an intensive, accelerated English course which gives students the tools to read and write the sort of sophisticated texts required of them in transfer level courses. This course covers the same content as English 360, but it is designed for students who are eligible for English 310A or English 355 or an assessment score of 1-69 on the sentence skills portion of the assessment test. There is no lab component to this course. This is a Pass/No Pass only course. *Five hours lecture.*

ESL 372 **3.0 Units**
Fundamentals Of ESL Reading
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. Offers practice in high beginning level reading comprehension, vocabulary acquisition and writing skills development for the ESL student who is still developing fluency. *Three hours lecture.*

ESL 373 **3.0 Units**
ESL Basic Oral Communication Skills
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. 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. *Three hours lecture.*

English

ESL 373L   0.5 Unit
ESL 373 Lab

Corequisite: ESL 373. Provides structured listening comprehension and pronunciation practice, basic grammar practice, notetaking 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. Instruction is individualized. Materials for the Lab may be purchasd in the Solano College Bookstore. *One and one-half hours lab.*

ESL 374   3.0 Units
Fundamentals of ESL Grammar

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. The major goals of this course are increasing 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. Attendance, participation, completion of quizzes and homework assignments requiring reading and writing will determine the student's success in completing the course. *Three hours lecture.*

Learning Resources

LR 010   1.0 Unit
Intro Lbry Resrch/Info Comptnc

Course Advisory: SCC minimum Math standards. An introduction to Information Competency skills necessary to use research tools and to select, locate, retrieve and evaluate information. *One hour lecture.*

LR 011   1.5 Units
Internet Explored:
Advanced Information Competency

Course Advisory: Eligibility for English 001, Computer literacy (familiarity with basic computer functions). 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. Formerly LR 05. *One and one-half hours lecture.*

Ethnic Studies

Program Description

This major 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.)

Associate in Arts Degree

The Associate in Arts Degree can be obtained by completing a total of 60 units, including the 18-unit major, general education requirements, and electives. 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 Ethnic Studies Associate Degree 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
ART 012 Inside/Outside: The Cultures and Identities
   of Visual Artists in a Diverse America 3
OR
MUSC 007 Jazz and Popular Music in America:
   Ragtime to Rock 3
OR
MUSC 013 Multicultural Music in America 3
COUN 055 Valuing Diversity 3
HIST 028 African American History to 1877 3
OR
HIST 029 African American History Since 1865 3
OR
PLSC 005 Constitutional Rights in a
   Multicultural Society 3
OR
SOCS 030 Peace, Non-Violence,
   and Conflict Resolution 3
OR
SOCS 053 Civil Rights, Non-Violence,
   and Race Relations 3
Select 6 units from the Electives List 6
   Total Units **18**

Electives List (Select 6 units) . . . . **Units**
ANTH 002 Cultural Anthropology 3
COUN 055* Valuing Diversity 3
ENGL 033 Survey of African American
   Literature in the United States 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
JAPN 101 Conversational Japanese 3
JAPN 102 Conversational Japanese 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
SOCS 027 Native American Experience 3
SOCS 053* Civil-Rights, Non-Violence
   and Race Relations 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
SPAN 025 Introduction to Latin-American Culture:
   Exploration of Identity Through Essay,
   Film and Short Story 3
THEA 013 Diversity in American Theatre:
   A Contemporary Focus 3

* If not previously taken for the major.

Fashion Design

Associate Degree
Not offered in this program

FDES   062   3.0 Units
Clothing Construction
Course Advisory: SCC minimum English and Math standards. The study of custom clothing construction techniques including pattern adjustment, fabric selection and equipment usage. Evaluation is based on clothing constructed, sample skills, and written exams. Two hours lecture, three hours lab.

FDES   063   3.0 Units
Costume History
Course Advisory: SCC minimum English and Math standards. The study of world costume from the earliest time to the present. Evaluation is based on written examinations, written summaries, and classroom participation. *Three hours lecture.*

FDES   065   1.0 Unit
Alterations and Fit in Ready-To-Wear
Course Advisory: SCC minimum English and Math standards. The study of alterations and fit in ready-to-wear clothing. Restyling, marking, costing and construction techniques will be applied to men, women and children's clothing. Evaluation will be based on written examinations, garment alterations, and classroom participation. *One-half hour lecture, one and one-half hour lab.*

Film and Television

Program Description
This program is designed to provide fundamental theory and practical experiences required for a career in film and/or television.

Associate in Arts Degree
The Associate in Arts Degree can be obtained upon completion of a total of 60 units, including the 19 – 20-unit major, the general education requirements, and electives. 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 Film and Television Associate Degree 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 056 Advanced Television Production 3
OR
CINA 016 Film Production 4
TV 060 Television and Film Writing 3
    Total Units . . . . **19 – 20**

Recommended Electives:
ART 010 Art Appreciation
CINA 011 American Cultures in Film
COMM 015 Oral Interpretation of Literature
JOUR 011 Introduction to Mass Communication
MUSC 008 Music Appreciation
PHOT 030 Beginning Photography
THEA 001 Acting 1
THEA 002 Acting 2
THEA 010 History of Theatre 1
THEA 050 Performance for the Camera
TV 061 Advanced Film Writing
TV 099 Telecommunications Honors

Cinematography

CINA   010   **3.0 Units**
The Art of the Cinema
Course Advisory: SCC minimum English standard. An introduction to film history, aesthetic principles and production techniques of motion pictures. Important cinematic styles and trends are examined and representative films of major American and foreign film directors are viewed. Written exams, film screenings and film criticism are required. *Three hours lecture.*

CINA   011   **3.0 Units**
American Cultures in Film
Course Advisory: ENGL 001. 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. *Three hours lecture.*

CINA   015   **4.0 Units**
Film Production
Prerequisite: CINA 010 with a minimum grade of C (may be taken concurrently). 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. *Three hours lecture.*

CINA   016   **4.0 Units**
Film Production
Prerequisite: CINA 015 with a minimum grade of C. 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.
Three hours lecture, three hours by arrangement.

Film and Television

Television

TV 050   3.0 Units
Survey of Broadcasting
Course Advisory: SCC minimum English standard. 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. *Three hours lecture.*

TV 055   3.0 Units
Beginning Television Production
Prerequisite: TV 050 (may be taken concurrently). Offers 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. *Three hours lecture.*

TV 056   3.0 Units
Advanced Television Production
Prerequisite: TV 055 or previous television production experience. Course Advisory: SCC minimum English standard. 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. *Three hours lecture, one hour lab.*

TV 060   3.0 Units
Television & Film Writing
Course Advisory: ENGL 001. 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. *Three hours lecture.*

TV 061   3.0 Units
Advanced Film Writing
Prerequisite: TV 060 or presentation of a treatment or well structured story line acceptable to the instructor. 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. *Three hours lecture.*

TV 099   1.0 Unit
Telecommunications Honors
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 division Dean based on instructor availability. 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. *Three to nine hours by arrangement.*

Fire Technology

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.

Associate in Science Degree

A Certificate of Achievement can be obtained upon completion of the 30-unit major with a grade of "C" or better in each course. The Associate in Science Degree can be obtained upon completion of a total of 60 units, including the major, the general education requirements, and electives. 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 Fire Technology Certificate of Achievement/Associate Degree will be able to:

1. Identify minimum qualifications and entry-level skills for fire fighter hiring.
2. Demonstrate knowledge of fire service history, culture, and diversity.
3. Demonstrate the ability to analyze, appraise and evaluate fire and emergency incidents and identify components of emergency management and fire fighter safety.
4. 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.
5. Analyze the causes of fire; determine extinguishing agents and methods; differentiate the stages of the fire and fire department; and compare methods of heat transfer.
6. Calculate flow requirements for fire apparatus; diagram a pump and pluming schematic for fire apparatus; and apply mathematic formulae to hydraulics problems.
7. Identify and describe common types of building construction and conditions associated with structural collapse and fire fighter safety.
8. Differentiate between fire detection and fire suppression systems; design and diagram a wet and dry fire protection system; and identify alarm system components and their operations.

REQUIRED COURSES . . . . **Units**
FIRE 050 * Principles of Emergency Services 3
FIRE 051 Fire Behavior & Combustion 3
FIRE 053 Fire Prevention 3
FIRE 054 Fire Protection Systems 3
FIRE 055 Fundamentals of Fire Service Operations 3
FIRE 056 Building Construction For The Fire Service 3
Select 12 units from electives 12
    Total Units **30**

Select 12 units from the following electives: . . . . . . **Units**
FIRE 102 * Fire Service Safety Practices 3
FIRE 114 Fire Apparatus Maintenance 3
FIRE 140 Fire Technology Academy 24
IT 120 Electrical Safety 3
OCED 090 Occupational Work Experience . . . . 1 - 8

Fire service personnel may take Fire Technology electives in lieu of these courses providing they are a current EMT and CPR card holder.

Information on State Fire Marshal Certification

The following Solano College courses satisfy the *course* requirements for the indicated
State Fire Marshal Certification:
Investigator I –FIRE 145 & 146
Public Education Officer I –FIRE 134 & 135
Fire Instructor I –FIRE 170 & 171
Prevention Officer I –FIRE 134, 135, & 136
Prevention Officer II –FIRE 174, 196, 176
Chief Officer –FIRE 165, 166, 167, 168, 185, 186, 187, 188, 189

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Fire Technology."

Fire Technology

FIRE   050   **3.0 Units**
Fire Protection Organization
Course Advisory: SCC minimum English standard.
Presents an introduction to fire protection; career
opportunities in fire protection and related fields;
philosophy and history of fire protection; fire loss
analysis; organization and function of public and
private fire protection services; fire departments as
part of local government; laws and regulations
affecting the fire service; fire service nomenclature;
specific fire protection functions; basic fire chemistry
and physics; introduction to fire protection systems;
introduction to fire strategy and tactics. This is a Fire
Technology core course and must be completed with a
final grade of 'C' or better in order to receive an
Associate Degree or Certificate of Achievement in Fire
Technology. *Three hours lecture.*

FIRE   051   **3.0 Units**
Fire Behavior & Combustion
Course Advisory: SCC minimum English standard.
Provides 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 final grade of 'C' or better in
order to receive an Associate Degree or Certificate of
Achievement in Fire Technology. *Three hours lecture.*

FIRE   053   **3.0 Units**
Fire Prevention
Course Advisory: SCC minimum English standard.
Presents the history and philosophy of fire prevention,
organization and operation of a fire prevention
bureau, use of fire codes, identification and correction
of fire hazards, and the relationship of fire preventions
with fire safety education and detection and
suppression systems. This is a Fire Technology core
course and must be completed with a final grade of 'C'
or better in order to receive an Associate Degree or
Certificate of Achievement in Fire Technology. *Three
hours lecture.*

FIRE   054   **3.0 Units**
Fire Protection Systems
Course Advisory: SCC minimum English standard.
Provides information relating to the features of design
and operation of fire detection and alarm systems,
heat and smoke control systems, 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 final grade of 'C' or better in order to receive an
Associate Degree or Certificate of Achievement in Fire
Technology. *Three hours lecture.*

FIRE   056   **3.0 Units**
Building Construction for the Fire Service
*Course Advisory: SCC minimum English and Math
standards.* Presents all of the major components of the
common types of structures used for business and
residential purposes that will provide the student with
the basic building construction knowledge to safely
perform rescue operations and suppress fires in
structures and their surrounding appurtenances. This
course must be completed with a final grade of 'C' or
better in order to receive an Associate Degree or
Certificate of Achievement in Fire Technology. *Three
hours lecture.*

FIRE   102   **3.0 Units**
Fire Service Safety Practices
Course Advisory: Eligibility for ENGL 001. Designed to
provide basic skills in assessing environmental and
fire dangers in the home, at the fire station, on the fire
ground, on wildland fires, or while operating a fire
vehicle. Successful students will receive a NWCG Fire
Safety Officer Certificate. *Three hours lecture.* Footnote:
To participate in an online or online/hybrid course,
you must have an e-mail address and that address
must be on file with Solano College.

Fire Technology

FIRE   114   **3.0 Units**
Fire Apparatus Maintenance
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. Introduces fire technology students to basic fire apparatus maintenance and troubleshooting techniques typically associated with the lubrication, coolants, drive train, engine, tires, batteries, and other moving parts of a piece of firefighting apparatus. *Three hours lecture.*

FIRE   128   **3.0 Units**
Emergency Medical First Responder for the Fire Service
Course Advisory: SCC minimum English and Math standards. Intended as a prerequisite for the stand alone EMT 212 course and as a prerequiste for EMT 212 included as part of Fire 113A the Wildland Fire Academy, Fire 128 provides the student with the basic, pedagogical 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. *Two and one-half hours lecture, one and one-half hours lab.*

FIRE   132   **2.0 Units**
Pump Operation and Fire Hydraulics
Course Advisory: SCC minimum English standard. Presents the principles of hydraulics as they relate to pumps used in fire fighting and appurtenant manipulative skills that accompany these principles. *Thirty-two hours lecture, eight hours lab (1-week course).*

FIRE   140   **24.0 Units**
Fire Technology Academy
Prerequisite: FIRE 050 with a minimum grade of C and FIRE 083 or KINE 083 with a minimum grade of C, or a passing grade on the CPAT or PACK test as evidences by a certificate of completion. A course containing the contents of FIRE 115, 123, 124, 125, 126, 127, 129, 130, 131, and 83 and Certification of State Fire Marshal courses of I-200, Fire Control I, Fire Control 3B, Water/Swiftwater Rescue Awareness, Confined Space Awareness, Rescue Systems I, Trench Rescue, Low Angle Rescue, American Red Cross EMS First Responder for the Professional, and State Fire Marshal Certified wildland courses of S-190, S-130, S-131, S-134, L-180 and CALFIRE 67 Hour Basic Course. Successful students who maintained at least an 80% score on each unit and subject covered in this course may become eligible for certification by the State Fire Marshal as a Firefighter I pending a required internship with an recognized fire entity. The Solano College Fire Technology Program and its appurtenant Firefighter I Academy is a California State Fire Marshal Accredited Regional Training Program. *Fourteen hours lecture, thirty hours lab.*

Foreign Languages

Foreign Languages, General

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.

Associate of Art Degree
The Associate in Arts Degree can be obtained by completing a total of 60 units, including a minimum of 20 units from the courses listed below in at least two different languages, the general education requirements, and electives. 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 Foreign Languages, General Associate Degree will be able to:
1. Read, write, speak, listen, and engage with the target culture in more than one language, at the novice-mid to advanced proficiency levels (depending on course level), as prescribed by the ACTFL Proficiency Guidelines and the ILR Culture Proficiency Guidelines. (Minimum of 20 units)

REQUIRED COURSES . . . . **Units**
French
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

German
GRMN 001 First Semester German 5
OR
GRMN 031 First Semester German, Part 1 3
AND
GRMN 032 First Semester German, Part 2 3
GRMN 002 Second Semester German 5
OR
GRMN 033 Second Semester German, Part 1 3
AND
GRMN 034 Second Semester German, Part 2 3
GRMN 003 Third Semester German 5
GRMN 004 Fourth Semester German 5
GRMN 011 Conversational German 3
GRMN 012 Intermediate German Conversation 3

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
SPAN 012 Intermediate Spanish Conversation. 3

Latin . . . . **Units**
LATN 001 Latin Fundamentals 3
LATN 002 Latin Fundamentals 3
LATN 003 Latin Fundamentals 3

Foreign Languages

Foreign Languages, Individual

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.

Associate in Arts Degree
The Associate in Arts Degree can be obtained by completing a total of 60 units, including a minimum of 18 units in one of the languages listed below, the general education requirements, and electives. 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 Foreign Languages, Individual Associate Degree will be able to:
1. 1.Read, write, speak, listen, and engage with the target culture at the novice-mid to advanced-low proficiency levels (depending on course level), as prescribed by the ACTFL Proficiency Guidelines and the ILR Culture Proficiency Guidelines.

REQUIRED COURSES

Foreign Language, French . . . . Units
FREN 001 First Semester French 5
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 031 First Semester French, Part 1 3
FREN 032 First Semester French, Part 2 3
FREN 049 French Honors. . . . . 1 - 3

Foreign Language, German . . . . Units
GRMN 001 First Semester German 5
GRMN 002 Second Semester German 5
GRMN 003 Third Semester German 5
GRMN 004 Fourth Semester German 5
GRMN 011 Conversational German 3
GRMN 012 Intermediate German Conversation 3
GRMN 031 First Semester German, Part 1 3
GRMN 032 First Semester German, Part 2 3
GRMN 033 Second Semester German, Part 1. 3
GRMN 034 Second Semester German, Part 2. 3
GRMN 049 German Honors 1 3

Foreign Language, Spanish . . . . 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
SPAN 011 Conversational Spanish. 3
SPAN 012 Intermediate Spanish Conversation 3
SPAN 025 Introduction to Latin-American Culture:
            An Exploration of Identity Through Essay,
            Film, and Short Story. 3
SPAN 031 First Semester Spanish, Part 1 3
SPAN 032 First Semester Spanish, Part 2 3
SPAN 033 Second Semester Spanish, Part 1 3
SPAN 034 Second Semester Spanish, Part 2 3
SPAN 049 Spanish Honors. . . . . 1 - 3
SPAN 061M Beginning Spanish,
            Part 1 for Medical Workers 3
SPAN 062M Beginning Spanish,
            Part 2 for Medical Workers 3
SPAN 063M Beginning Spanish,
            Part 3 for Medical Workers 3
SPAN 064M Beginning Spanish,
            Part 4 for Medical Workers 3
SPAN 001S Spanish for Spanish Speakers 1 5
SPAN 002S Spanish for Spanish Speakers 2 5

Latin . . . . Units
LATN 001 Latin Fundamentals 3
LATN 002 Latin Fundamentals 3
LATN 003 Latin Fundamentals 3

Foreign Languages

Associate in Arts in Spanish for Transfer

Program Description
The Associate in Arts Degree in Spanish for Transfer (A.A.-T) 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.

Associate in Arts in Spanish for Transfer Degree
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. 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 degree, 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 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 Spanish for Transfer degree, 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
OR
SPAN 001S Spanish for Spanish Speakers 1 5
SPAN 004 Fourth Semester Spanish 5
OR
SPAN 002S Spanish for Spanish Speakers 2 5
Select 3 units from List A. 3

List A (Select 3 units) . . . . **Units**
HIST 021 Mexican American/Chicano History 3
SPAN 011 Conversational Spanish. 3
SPAN 012 Intermediate Spanish Conversation 3
SPAN 025 Introduction to Latin-American Culture:
    Exploration of Identity Through
    Essay, Film, and Short Story 3
SPAN 026 Spanish Cinema for Conversation. 3
SOCS 022 Ethnic, Racial and Minority
    Group Relations in Harmony and Conflict 3
SOCS 025 Mexican-American Experience 3

Required Major Total Unit **23**
CSU General Education or IGETC Pattern Units . **37 - 39**
CSU Transferable Electives
    (as needed to reach 60 transferable units)* . . . . . . **7 - 9**
    Total Degree Units **60**

* 9 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.

Foreign Languages

French

FREN 001   5.0 Units
First Semester French
Course Advisory: SCC minimum English standard.
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 the Francophone culture. Exams, quizzes, written and oral assignments and completion of the activites manual will be used to evaluate student progress. 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. *Five hours lecture.*

FREN 002   5.0 Units
Second Semester French
Prerequisite: A minimum grad of C in either FREN 001, or FREN 032, or two years of high school French with a minimum grade of C. Continuation of FREN 001 introducing 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 the Francophone culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. NOTE: Not open to students who have completed FREN 033 and/or 034. Five hours lecture.

FREN 003   5.0 Units
Third Semester French
Prerequisite: A minimum grade of C in either FREN 002, or FREN 034, or three years of high school French with a minimum grade of C. Continuation of FREN 002, that expands the student's knowledge of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, and acquisition of a practical vocabulary, and exposure to Francophone culture. In addition, students will read and discuss short selections taken from a literary and cultural anthology. Exams, quizzes, written and oral assignments and completion of the activities manual will be used to evaluate student progress. *Five hours lecture.*

FREN 004   5.0 Units
Fourth Semester French
Prerequisite: FREN 003 with a minimum grade of C. 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. Regular Quizzes, exams, written and oral assignments required. *Five hours lecture.*

FREN 011   3.0 Units
Conversational French
Prerequisite: A minimum grade of C in either FREN 002 or FREN 034. Designed to promote competency in the oral use of the language and to increase fluency by reinforcing previously learned materials and by expanding vocabulary and patterns of speech. This course emphasizes the practical application of the language, not grammar acquisition or review. *Three hours lecture.*

FREN 012   3.0 Units
Intermediate French Conversation
Prerequisite: FREN 011 with a minimum grade of C, or the equivalent. This course is a continuation of FREN 011, and is designed to promote competency in the oral use of the language and to increase fluency by expanding beyond previously learned materials, vocabulary and patterns of speech. The course emphasizes the practical application of the language, not grammar acquisition or review, exposing students to global awareness through a rich variety of Francophone cultural sources. *Three hours lecture.*

FREN 031   3.0 Units
First Semester French, Part I
Course Advisory: SCC minimum English standard.
Introduces the basic elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, vocabulary building, and exposure to the Francophone culture. Exams, quizzes, written and oral assignments and completion of the activities manual will be used to evaluate student progress. NOTE: In order to fulfill the one semester of French 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. *Three hours lecture.*

Foreign Languages

FREN 032 3.0 Units
First Semester French, Part II
Prerequisite: FREN 031 with a minimum grade of C, or one year of high school French with a minimum grade of C. Continuation of FREN 031 introducing the fundamental elements of the language (listening, speaking, reading, writing and culture) with continued emphasis on language production, grammar, syntax, vocabulary building, and exposure to the French culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. NOTE: In order to fulfill the one-semester French 001 requirement of some universities, transfer students must complete the sequence of FREN 031 and 032. 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. *Three hours lecture.*

FREN 049 1.0 to 3.0 Units
French Honors
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 Division Dean based on instructor availability. Independent study and research, by arrangement with the instructor, in specified fields of study in French or creative writing in French. *Three to nine hours by arrangement with instructor and School Dean.*

German

GRMN 001 5.0 Units
First Semester German
Course Advisory: SCC minimum English standard. 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 the German culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. NOTE: Not open for credit to students who have had two or more years of high school German with a minimum grade of B within the last three years or to students who have completed GRMN 031 and/or 032. *Five hours lecture.*

GRMN 002 5.0 Units
Second Semester German
Prerequisite: A minimum grade of C in GRMN 001, or 032, or two years of high school German or the equivalent with a minimum grade of C. Continuation of GRMN 001, presenting the fundamentals of German (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 the German culture. Exams, quizzes, written assignments, and completion of the activities manual will be used to evaluate student progress. NOTE: Not open to students who have completed GRMN 033 and/or 034. *Five hours lecture.*

GRMN 003 5.0 Units
Third Semester German
Prerequisite: A minimum grade of C in either GRMN 002, or GRMN 034, or three years of high school German with a minimum grade of C. Completes the students' introduction to the fundamentals of German, reviewing and refining many of the concepts covered in GRMN 001 and 002 so that students are prepared to deal with more advanced grammar, reading, writing and conversation in German. Exposure to the culture and thinking of the German-speaking peoples is accomplished through the reading of literature by representative German, Austrian and Swiss writers. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. *Five hours lecture.*

GRMN 004 5.0 Units
Fourth Semester German
Prerequisite: GRMN 003 with a minimum grade of C, or four years of high school German with a minimum grade of C. Continues the review and expansion of students' knowledge of basic German begun in GRMN 003, while emphasizing several fine points of more advanced German grammar for closer study. Exposure to the culture and thinking of the German-speaking peoples is accomplished through the reading of literature by representative German, Austrian and Swiss writers. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. *Five hours lecture.*

Foreign Languages

GRMN 011   **3.0 Units**
Conversational German
Prerequisite: A minimum grade of C in either GRMN 002 or GRMN 034. Designed to promote competency in the oral use of the language and to increase fluency by reinforcing previously learned materials and by expanding vocabulary and patterns of speech. *Three hours lecture.*

GRMN 012   **3.0 Units**
Intermediate German Conversation
Prerequisite: GRMN 011 with a minimum grade of C. A continuation of GRMN 011, designed to promote competency in the oral use of the language and to increase fluency by reinforcing previously learned materials and by expanding vocabulary and patterns of speech. The course emphasizes the practical application of the language, not grammar acquisition or review, exposing students to global awareness through a rich variety of cultural sources from the German-speaking world. *Three hours lecture.*

GRMN 031   **3.0 Units**
First Semester German, Part I
Course Advisory: SCC minimum English standard. Introduces the basic elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, vocabulary building, and exposure to the German culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. NOTE: In order to fulfill the one-semester German 001 requirement of some universities, transfer students must complete the sequence of GRMN 031 and 032. NOTE: Not open for credit to students who have had two or more years of high school German with a minimum grade of B within the last three years or to students who have completed GRMN 001. *Three hours lecture.*

GRMN 032   **3.0 Units**
First Semester German, Part II
Prerequisite: GRMN 031 with a minimum grade of C, or one year of high school German with a minimum grade of C. Continuation of GRMN 031, presenting an introduction to the fundamental elements of the language (listening, speaking, reading, writing and culture) with continued emphasis on language production, grammar, syntax, vocabulary building, and exposure to the German culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. NOTE: In order to fulfill the one-semester German 001 requirement of some universities, transfer students must complete the sequence of GRMN 031-032. NOTE: Not open for credit to students who have had two or more years of high school German with a minimum grade of B within the last three years or to students who have completed GRMN 001. *Three hours lecture.*

GRMN 033   **3.0 Units**
Second Semester German, Part I
Prerequisite: A minimum grade of C in either GRMN 001 or GRMN 032. NOTE: Not open for credit to students who have received credit for GRMN 002. Continuation of GRMN 001 (or GRMN 032), presenting the fundamentals of German (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 the Germanic culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. *Three hours lecture.*

GRMN 034   **3.0 Units**
Second Semester German, Part II
Prerequisite: GRMN 034 with a minimum grade of C. Not open for credit to students who have received credit for GRMN 002. Continuation of GRMN 033, presenting the fundamentals of German (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 the Germanic culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. *Three hours lecture.*

Foreign Languages

GRMN 049   **1.0 to 3.0 Units**
German Honors
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 Division Dean based on instructor availability. Independent study and research, by arrangement with the instructor, in specified fields of study in German or creative writing in German. *Three to nine hours by arrangement with instructor and School Dean.*

Italian

ITAL   031   **3.0 Units**
First Semester Italian, Part I
Course Advisory: SCC minimum English standard. Introduces the basic elements of the language (listening, speaking, reading, writing and culture), with emphasis on language production, grammar, syntax, vocabulary building, and exposure to Italian culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. NOTE: In order to fulfill the one-semester foreign language requirement of some universities, transfer students must complete the sequence of ITAL 031 and 032. *Three hours lecture.*

ITAL   032   **3.0 Units**
First Semester Italian, Part II
Prerequisite: ITAL 031 with a minimum grade of C. Course Advisory: SCC minimum English standard. Continuation of ITAL 031 introducing students to the fundamental elements of the language (listening, speaking, reading, writing and culture), with emphasis on language production, grammar, syntax, vocabulary building, and exposure to Italian culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. *Three hours lecture.*

ITAL   033   **3.0 Units**
Second Semester Italian, Part I
Prerequisite: ITAL 032 with a minimum grade of C. Course Advisory: SCC minimum English standard. Continuation of ITAL 032 presenting the fundamentals of Italian (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 Italian culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. *Three hours lecture.*

ITAL   034   **3.0 Units**
Second Semester Italian, Part II
Prerequisite: ITAL 033 with a minimum grade of C. Course Advisory: SCC minimum English standard. Continuation of ITAL 033 presenting the fundamentals of Italian (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 Italian culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. *Three hours lecture.*

Japanese

JAPN   101   **3.0 Units**
Conversational Japanese
Course Advisory: SCC minimum English standard. A practical course stressing essentials of vocabulary, pronunciation and basic conversation patterns; the students will be introduced to aspects of Japanese culture. *Three hours lecture.*

JAPN   102   **3.0 Units**
Conversational Japanese
Prerequisite: JAPN 101 with a minimum grade of C. A continuation of JAPN 101 which reviews and expands on the previously learned vocabulary, pronunciation, grammar, and conversation patterns. A high emphasis will be on the spoken language in realistic situations. *Three hours lecture.*

Foreign Languages

Latin

LATN   001   3.0 Units
Latin Fundamentals
Course Advisory: SCC minimum English standard.
Introduction to the Latin language - to its sonorous
quality, its treasury of words, its inflectional system,
and the logic of its syntax. *Three hours lecture.*

LATN   002   3.0 Units
Latin Fundamentals
Prerequisite: LATN 001. Continued introduction to the
Latin language - to its treasury of words, its
inflectional system, the logic of its syntax, its ability to
clarify difficult grammatical concepts for students of
modern languages, its legacy of English derivatives
and of the nomenclatures of scholarship, the sciences,
and the arts. *Three hours lecture.*

LATN   003   3.0 Units
Latin Fundamentals
Prerequisite: LATN 001 and 002. Advanced study of the
Latin Language and Literature; advanced study of
syntax and complex sentence structures in Latin;
reading from original Latin authors including Caesar,
Cicero, Catullus and Horace. *Three hours lecture.*

LATN   049   1.0 to 3.0 Units
Latin Honors
*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 Division Dean based on
instructor availability.* Independent study and research,
by arrangement with the instructor, in specified fields
of study in Latin or creative writing in Latin. *Three to
nine hours by arrangement with instructor and School
Dean.*

Spanish

SPAN   001   5.0 Units
First Semester Spanish
Course Advisory: SCC minimum English standard.
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
the Hispanic culture. The students will interact with
authentic language in a cultural context. 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. C-ID SPAN 100. *Five hours
lecture.*

SPAN   001S   5.0 Units
Spanish for Spanish Speakers 1
*Prerequisite: Designed for heritage speakers. Intermediate
proficiency in speaking, writing, listening and reading, as
determined by the ACTFL guidelines. Prior consent of
instructor required.* NOTE: Not an entry-level language
class. Open to heritage students who have proficiency
in the language, but have had little or no formal
training; or other linguistically qualified students who
have completed two full semesters of college Spanish,
or the equivalent; or by consent of instructor. *Course
Advisory: SCC minimum English and Math standards.*
This course, which is conducted entirely in Spanish, is
the first part of a two-semester sequence designed for
heritage speakers of Spanish, or other linguistically
qualified students, who are proficient in the language,
but who have had little or no formal language
training. It provides instruction that builds upon
students' existing skills in reading, writing, speaking,
listening and cultural knowledge. The course will
underscore accuracy in the use of linguistic registers,
hone aural comprehension, provide instruction in oral
and written communication, expand word usage and
vocabulary, and increase cultural awareness, so that
students are able to address topics that go beyond the
personal sphere. NOTE: Not an entry-level language
class. Open to heritage students who have proficiency
in the language, but have had little or no formal
training; or other linguistically qualified students who
have completed two full semesters of college Spanish,
or the equivalent; or by consent of instructor. C-ID
SPAN 220. *Five hours lecture.*

Foreign Languages

SPAN 002   **5.0 Units**
Second Semester Spanish
Prerequisite: Minimum grade of C in SPAN 001, or SPAN 001S, or SPAN 032, or SPAN 062M, or two years of high school Spanish with a minimum grade of C, or the equivalent. Continuation of SPAN 001. Continues students' introduction to 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 a cultural context. NOTE: Not open to students who have completed SPAN 002S, or SPAN 033 and/or 034, or SPAN 063M and/or 064M. C-ID SPAN 110. *Five hours lecture.*

SPAN 002S   **5.0 Units**
Spanish for Spanish Speakers 2
Prerequisite: SPAN 001S with a minimum grade of C, or by consent of instructor. Course Advisory: SCC minimum English and Math standards. This course, which is conducted entirely in Spanish, is the second part of a two-semester sequence designed for heritage speakers of Spanish, or other linguistically qualified students, who are proficient in the language, but who have had little or no formal language training. It provides instruction that builds upon students' existing skills in reading, writing, speaking, listening and cultural knowledge. The course will underscore accuracy in the use of linguistic registers, hone aural comprehension, provide instruction in oral and written communication, expand word usage and vocabulary, and increase cultural awareness, so that students are able to address topics that go beyond the personal sphere. NOTE: Designed for heritage speakers. Intermediate proficiency in speaking, writing, listening and reading, as determined by the ACTFL guidelines. Open to students who have completed SPAN 001S or SPAN 003 or the equivalent, or consent by instructor. C-ID SPAN 230. *Five hours lecture.*

SPAN 003   **5.0 Units**
Third Semester Spanish
Prerequisite: A minimum grade of C in SPAN 002, or SPAN 002S, or SPAN 034, or SPAN 064M, or three years of high school Spanish with a minimum grade of C. 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 conversation, 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 Spanish. *Five hours lecture.*

SPAN 004   **5.0 Units**
Fourth Semester Spanish
Prerequisite: SPAN 003 with a minimum grade of C or four years of high school Spanish with a minimum grade of C. Continuation of Spanish 003. This course continues to expand upon culture and facilitate 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 conversation, 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 Spanish. *Five hours lecture.*

SPAN 011   **3.0 Units**
Conversational Spanish
Prerequisite: A minimum grade of C in SPAN 002, or SPAN 02S, or SPAN 034. Designed to promote competency in the oral use of the language and to increase fluency by reinforcing previously learned materials and by expanding vocabulary and patterns of speech. This course emphasizes the practical application of the language, not grammar acquisition or review. *Three hours lecture.*

SPAN 012   **3.0 Units**
Intermediate Spanish Conversation
Prerequisite: Spanish 011 with a minimum grade of C. This course is a continuation of SPAN 011, and is designed to promote competency in the oral use of the language and to increase fluency by expanding beyond previously learned materials, vocabulary, and patterns of speech. The course emphasizes the practical application of the language, not grammar acquisition or review, exposing students to global awareness through a rich variety of Latino cultural sources. *Three lecture hours.*

SPAN 025   **3.0 Units**
Intro to Latin-American Culture: An Exploration of Identity Through Essay, Film, and Short Story
Prerequisite: SPAN 003 with a minimum grade of C, or the equivalent by consent of the instructor. Course Advisory: SCC minimum English standard. Explores the Latin-American identity: What is Latin America and who are the Latin Americans? The focus will be on contemporary issues, customs, political and historical events, and major institutions of Latin America as expressed in contemporary Latin-American essays, films and short stories. This course will be taught in Spanish. *Three hours lecture.*

SPAN 026   **3.0 Units**
Spanish Cinema for Conversation
Prerequisite: SPAN 003 with a minimum grade of C or the equivalent by consent of the instructor. Course Advisory: SCC minimum English standards. This course will expose students to the diversity and complexity of Spanish and Latin American thought as expressed in films in the target language with the use of subtitles. The spring-board for building of the students' conversational skills will be issues that inform contemporary culture and, secondarily, an exploration of their artistic and cinematic rendition. Conversations and essays will also address the specific cinematic and artistic techniques and symbolism, of each film. Active participation, viewing and discussion of all films is necessary for completion of the course. This course will be conducted in Spanish. Formerly SPAN 048A. *Three hours lecture.*

SPAN 031   **3.0 Units**
First Semester Spanish, Part I
Course Advisory: SCC minimum English standard. Introduces the basic elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, vocabulary building, and exposure to the Hispanic culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. NOTE: In order to fulfill the one-semester Spanish 001 requirement of some universities, transfer students must complete the sequence of Spanish 031 and 032. NOTE: Not open for credit to students who have received credit for SPAN 001, or SPAN 001S, or SPAN 061M, or who have had two or more years of high school Spanish with a minimum grade of B within the last three years. *Three hours lecture.*

SPAN 032   **3.0 Units**
First Semester Spanish, Part II
Prerequisite: A minimum grade of C in either SPAN 031 or SPAN 061M. Continuation of Spanish 031, presenting the fundamental elements of the language (listening, speaking, reading, writing and culture) with continued emphasis on language production, grammar, syntax, vocabulary building, and exposure to the Hispanic culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. NOTE: In order to fulfill the one-semester Spanish 001 requirement of some universities, transfer students must complete the sequence of Spanish 031 and 032. NOTE: Not open for credit to students who have received credit for SPAN 001, or SPAN 001S, or SPAN 062M, or who have had two or more years of high school Spanish with a minimum grade of C within the last three years. *Three hours lecture.*

Foreign Languages

SPAN   033   3.0 Units
Second Semester Spanish, Part I
Prerequisite: SPAN 001, or SPAN 001S, or SPAN 032, or SPAN 062M with a grade of C or better. Continuation of Spanish 001 (or Spanish 032), presenting 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, and exposure to the Hispanic culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. NOTE: Not open for credit to students who have received credit for SPAN 002, SPAN 002S, or SPAN 063M. *Three hours lecture.*

SPAN   034   3.0 Units
Second Semester Spanish, Part II
Prerequisite: A minimum grade of C in either SPAN 033 or SPAN 063M. Continuation of Spanish 033, presenting 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, and exposure to the Hispanic culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. NOTE: Not open for credit to students who have received credit for SPAN 002 or SPAN 002S. *Three hours lecture.*

SPAN   049   1.0 to 3.0 Units
Spanish Honors
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 SchoolDean based on instructor availability. Independent study and research, by arrangement with the instructor, in specified fields of study in Spanish or creative writing in Spanish. 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.*

SPAN   061M   3.0 Units
Beginning Spanish, Part 1 for Medical Workers
Course Advisory: SCC minimum English standard. Introduces the basic elements of the language (listening, speaking, reading, writing and culture), with emphasis on language production in a medical setting. Grammar, syntax, and vocabulary building will be taught with the aim of producing oral and written competency in a medical setting. Exams, quizzes, and written assignments will be used to evaluate student progress. NOTE: Students who complete this course with a C or better will not be able to receive credit for SPAN 031, SPAN 001, or SPAN 001S. *Three hours lecture.*

SPAN   062M   3.0 Units
Beginning Spanish, Part 2 for Medical Workers
Prerequisite: A minimum grade of C in either SPAN 061M, or SPAN 031. Course Advisory: SCC minimum English standard. Introduces the basic elements of the language (listening, speaking, reading, writing and culture), with emphasis on language production in a medical setting. Grammar, syntax, and vocabulary building will be taught with the aim of producing oral and written competency in a medical setting. Exams, quizzes, and written assignments will be used to evaluate student progress. NOTE: Students who complete this course with a C or better will not be able to get credit for SPAN 032, SPAN 001, or SPAN 001S. *Three hours lecture.*

SPAN   063M   3.0 Units
Beginning Spanish, Part 3 for Medical Workers
Prerequisite: A minimum grade of C in SPAN 062M, or SPAN 032, or SPAN 001, or SPAN 001S. Course Advisory: SCC minimum English standard. Continuation of SPAN 062M, presenting the fundamentals of Spanish (listening, speaking, reading, writing and culture), with increased emphasis on writing and continued stress on language production in a medical setting. Grammar, syntax, and vocabulary building will be taught with the aim of producing oral and written competency in a medical setting. Exams, quizzes, and written assignments will be used to evaluate student progress. NOTE: Not open to students who have completed SPAN 002, or SPAN 002S, or SPAN 033. *Three hours lecture.*

Foreign Languages

SPAN   064M   **3.0 Units**
Beginning Spanish, Part 4 for Medical Workers
Prerequisite: A minimum grade of C in either SPAN 063M or SPAN 033. Course Advisory: SCC minimum English standard. Continuation of SPAN 063M, presenting the fundamentals of Spanish (listening, speaking, reading, writing and culture), with increased emphasis on writing and continued stress on language production in a medical setting. Grammar, syntax, and vocabulary building will be taught with the aim of producing oral and written competency in a medical setting. Exams, quizzes, and written assignments will be used to evaluate student progress. NOTE: Not open to students who have completed SPAN 002, or SPAN 002S, or SPAN 034. *Three hours lecture.*

FLNG   048   **3.0 Units**
Special Topics
These courses, numbered 048 or 098, depending upon their transferability, are courses of contemporary interest centered on changing, knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

FLNG   101   **2.0 Units**
Cross Age Teaching
Corequisite: Concurrent enrollment in 1 unit of OCED 090. Prerequisite: Students must have completed French 002, German 002, or Spanish 002 with a minimum grade of C. Weekly seminars will explore how children learn and develop understanding in French, German and Spanish. Working with a peer partner or partners, students will prepare lesson plans and develop curriculum. Through a co-requisite OCED 090, students will work in elementary school classes in Solano County to provide language instruction based on the lesson plans developed. *Two hours lecture.*

History

Associate in Arts in History for Transfer

Program Description
This program emphasizes the development of various societies through a chronological study of the major social, political, economic, and cultural forces which have shaped these societies. Students in this program may study a variety of historical fields including United States, World, Western Civilization, African-American, Mexican and Mexican-American, California and Women's History.

Associate in Arts in History for Transfer
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 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 Associate in Arts Degree 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 degree, 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 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 an Associate in Arts in History for Transfer degree 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 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
HIST 017 History of the United States to 1865 3
AND
HIST 018 History of the United States from 1865 3
Select six units from the electives below 6
    Total Units **18**

Select 6 units from the following categories . . . . . . **Units**

I. United States
HIST 010 California History 3
HIST 028 African American History to 1877 3
HIST 031 Mexican American/Chicano History 3
HIST 037 Women in American History 3

II. World History . . . . **Units**
HIST 002 World History to 1500. 3
HIST 003 Modern World History 3
HIST 004 History of Western Civilization to 1500 3
HIST 005 History of Western Civilization Since 1500 3

III. 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

Required Major Total Units. **18**
CSU General Education or IGETC Pattern Units . **37 - 39**
CSU Transferable Electives
    (as needed to reach 60 transferable units)* . . . . **11 - 18**
      Total Degree Units **60**

 * *6 - 15 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.*

History

HIST   002   3.0 Units
World History to 1500
Course Advisory: Eligibility for English 001; SCC minimum Math standard. 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. *Three hours lecture.*

HIST   003   3.0 Units
World History Since 1500
Course Advisory: Eligibility for English 001; SCC minimum Math standard. 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. C-ID HIST 160. *Three hours lecture.*

HIST   004   3.0 Units
History of Western Civilization to 1500
Course Advisory: Eligibility for English 001. 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. C-ID HIST 170. *Three hours lecture.*

HIST   005   3.0 Units
History of Western Civilization Since 1500
Course Advisory: Eligibility for English 001. 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. C-ID HIST 180. *Three hours lecture.*

HIST   010   3.0 Units
California History
Course Advisory: Eligibility for English 001. 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. *Three hours lecture.*

HIST   017   3.0 Units
History of the United States to 1865
Course Advisory: Eligibility for English 001. This course is a survey of the history of the United States from its Native American, African and European origins through the period of the Civil War and Reconstruction. Emphasis is placed on the 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. C-ID HIST 130. *Three hours lecture.*

HIST   018   3.0 Units
History of the United States from 1865
Course Advisory: Eligibility for English 001. This course is a survey of the history of the United States from Reconstruction to the present. It 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 HIST 140. *Three hours lecture.*

HIST   028   3.0 Units
African American History to 1877
Course Advisory: Eligibility for English 001. This is a survey course 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. *Three hours lecture.*

History

HIST   029   **3.0 Units**
African American History Since 1865
Course Advisory: Eligibility for English 001. This course is a 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. *Three hours lecture.*

HIST   031   **3.0 Units**
Mexican American/Chicano History
Course Advisory: Eligibility for English 001; SCC minimum Math standard. A survey of Mexican American/Chicano history from the pre-Columbian civilizations of Mexico to the present. 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. *Three hours lecture.*

HIST   037   **3.0 Units**
Women in American History
Course Advisory: Eligibility for English 001. 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. *Three hours lecture.*

Horticulture

Horticulture and Plant 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. This program offers a certificate and degree in Horticulture and Plant Science..

Certificate of Achievement and Associate in Science Degree
A Certificate of Achievement can be obtained by completing all courses in the major with a grade of C or better or a P if the course is taken on a Pass/No Pass basis. The Associate in Science Degree can be obtained by completing a total of 60 units, including the required courses in the major, the general education requirements, and electives. All courses for this 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 Horticulture Science Certificate of Achievement/Associate Degree will be able to:
1. Design a landscape.
2. Lay out a landscape.
3. Estimate the cost of a landscape.

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
    Total Units 23

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Horticulture Science."

Landscape Worker Job-Direct Certificate

The required courses must be completed with a grade of C or better.

REQUIRED COURSES . . . . **Units**
HORT 006 Identification and Ecology of
        Landscape Plant Materials. 4
HORT 050 Introduction to Horticulture 3
HORT 071 Irrigation Principles 3
    Total Units 10

*Students will be required to complete 80 hours of cooperative supervised work experience to receive credit.

Horticulture

HORT   006   **4.0 Units**
**Identification and Ecology
of Landscape Plant Materials**
*Course Advisory: HORT 050 recommended and SCC
minimum English and Math standards.* Study of the
identification, growth habits, cultural requirements,
and evaluation of landscape plant materials used for
ornamental purposes in Western landscapes.
Laboratory experience will emphasize the
identification and use of the plant materials in various
landscape settings. A collection will be required. *Three
hours lecture, three hours lab.*

HORT   030   **3.0 Units**
Landscape Design I
*Prerequisite: HORT 006 with a minimum grade of C.
Course Advisory: HORT 050; SCC minimum English and
Math standards.* Introduction to the skills and
techniques of landscape design principles and
practices. Laboratories will stress drafting techniques
through design projects. Field trips required. *Two hours
lecture, three hours lab.*

HORT   031   **3.0 Units**
Landscape Design II
*Prerequisite: HORT 030 with a minimum grade of C.
Course Advisory: HORT 050; SCC minimum English and
Math standards.* 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. *Two
hours lecture, three hours lab.*

HORT   050   **3.0 Units**
Introduction to Horticulture
*Course Advisory: SCC minimum English and Math
standards.* Introduction and preview of the nursery,
florist, and landscaping industries including elemental
landscape design, flower arranging, plant
identification, plant propagation, landscape tools, turf
care, pest control, soil testing and basic botany.
Laboratory experience will develop beginning
techniques in propagation, soil testing, and turf and
shrub maintenance. Mandatory field trips will be
taken to various phases of the industry. *Two hours
lecture, three hours lab.*

HORT   055   **3.0 Units**
Soil and Fertilizers
*Course Advisory: SCC minimum English and Math
standards.* Study of the relationships of soils and
fertilizers to proper plant growth and emphasizes
analysis of soils and fertilizers. Field laboratories will
develop management techniques in testing and
application through exercises and field trip
observations. *Two hours lecture, three hours lab.*

HORT   056   **4.0 Units**
Landscape Pest Control and Management
*Course Advisory: SCC minimum English and Math
standards.* 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. *Three hours lecture, three hours lab.*

HORT   070   **3.0 Units**
Landscape Construction and Estimation
*Course Advisory: SCC minimum English and Math
standards; HORT 050.* 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. *Two hours lecture, three hours lab.*

HORT   071   **3.0 Units**
Irrigation Principles
*Course Advisory: SCC minimum English and Math
standards; HORT 055.* 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. *Two hours lecture,
three hours lab.*

Horticulture

HORT 301A   **2.0 Units**
Adaptive Horticulture -
Basic Skills and Practices
Course Advisory: This course is for students with learning difficulties. A horticulture and vocational training class adapted for students with special learning needs. Students will learn basic horticulture skills in a garden, nursery, and landscape setting. Safety training will be incorporated throughout the course. Students will receive a letter grade for this course. There will be 1 or more field trips for this course. *Two hours lecture, four hours lab, four hours activity (8-week course).*

HORT 301B   **2.0 Units**
Adaptive Greenhouse Management
Course Advisory: This course is primarily for students with special learning needs. This is a greenhouse skills vocational training course adapted for but not limited to students with intellectual and/or physical disabilities. Students will learn greenhouse management skills for employment preparation. *Two hours lecture, four hours lab, four hours activity (8-week course).*

HORT 301C   **2.0 Units**
Adaptive Nursery Management
Course Advisory: This course is primarily for students with disabilities. This is a nursery and landscape skills vocational training course adapted for but not limited to students with intellectual and/or physical disabilities. Students will learn nursery and landscape management skills for employment preparation. Students will be given a letter grade for this course. *Two hours lecture, four hours lab, four hours activity (8-week course).*

HORT 301D   **2.0 Units**
Adaptive Vegetable and Orchard Management
Course Advisory: This course is primarily for students with disabilities. This is a vegetable and orchard skills vocational training course adapted for but not limited to students with intellectual and/or physical disabilities. Students will learn vegetable and orchard management skills for employment preparation. Students will receive a letter grade for this course. There are one or more field trips required for this course. *Two hours lecture, four hours lab, four hours activity (8- week course).*

HORT 301E   **2.0 Units**
Adaptive Plant Propagation
Course Advisory: This course is primarily for students with disabilities. This is a plant propagation skills vocational training course adapted but not limited to students with intellectual and/or physical disabilities. Students will learn propagation management skills for employment preparation. Students will receive a letter grade for this course. There will be one or more field trips required for this course. *Two hours lecture, four hours lab, four hours activity (8-week course).*

Human Services

For Human Development, see Child Development and Family Studies.

Program Description
This program is designed to equip students with the basic knowledge and skills necessary for the variety of jobs in the field of Human Services. These courses are intended to provide entry-level skills and training for students who are interested in employment in mental health, social welfare, developmental services, corrections, alcohol and drug treatment, or child/adolescent treatment services.

Certificate of Achievement and Associate of Arts Degree
A Certificate of Achievement can be obtained upon completion of the 23-unit major with a grade of C (2.0) or better in each course. The Associate of Arts Degree can be obtained upon completion of 60 units, including the major with a grade of C (2.0) or better in each course, general education requirements, and electives. 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 Human Services Certificate of Achievement/Associate Degree will be able to:
1. Development of basic knowledge within the field of Human Services.
2. Development of cultural competency, group facilitation, and case management skills.
3. Application of Human Services knowledge and skills.

REQUIRED COURSES . . . . **Units**
We recommend taking the Human Services program courses in this sequence

HS 051 Introduction to Human Services. 3
COUN 062 Helping Skills:
   Creating Alliances & Facilitating Change 3
HS 053 Serving Special Populations 3
HS 054 Introduction to Group Processes 3
HS 055 Introduction to Case Management. 3
COUN 064A Practicum I 4
COUN 064B Practicum II 4
   Total Units **23**

Recommended Electives
CDFS 038 Child Development
CDFS 039 School Years and Adolescent Development
CDFS 062 Introduction to Early Childhood Education
CDFS 070 Lifespan Human Development
CDFS 075 Children with Special Needs
COUN 055 Valuing Diversity
CJ 001 Introduction to Criminal Justice
CJ 011 Community Relations
CJ 058 Fundamentals of Crime and Delinquency
PSYC 001 Introduction to Psychology
PSYC 002 Biological Psychology
PSYC 005 Abnormal Psychology
PSYC 006 Developmental Psychology
PSYC 007 Cross-Cultural Psychology
PSYC 010 Psychology of Woman
PSYC 020 Personal and Social Behavior
PSYC 030 Introduction to Social Psychology
PSYC 034 Human Sexual Behavior
PSYC 040 Drugs, Society & Behavior
PSYC 065 Introduction to the Psychology of Aging
OCED 090 Occupational Work Experience
SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict
SOCS 023 The African-American Family
SOCS 025 Mexican-American Experience
SOCS 027 Native American Experience
SOC 001 Introduction to Sociology
SOC 002 Social Issues and Problems
SOC 040 Sociology of the Family

This is a Gainful Employment Program. For additional information, please visit *http://www.solano.edu/gainful_employment/* and select "Human Services."

Human Services

HS 051   **3.0 Units**
Introduction to Human Services
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. Provided is an overview of the history and purpose of human services. Students will familiarize themselves with skills needed to provide optimum services to diverse consumer 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 agencies systems will be examined. *Three hours lecture.*

HS 053   **3.0 Units**
Serving Special Populations
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. The study of the values, problems, issues, concerns and counseling needs of special population groups including, but not limited to age, gender, ethnicity, socioeconomic status, physical or psychiatric disability, sexual orientation, and chemical dependency characteristics. The course provides students with the insight, knowledge and skills necessary to work with diverse populations in human services settings. *Three hours lecture.*

HS 054   **3.0 Units**
Introduction to Group Processes
Prerequisite: HS 051 with a minimum grade of C; Course Advisory: COUN 062 with a minimum grade of C; Eligibility for English 001 and SCC minimum Math standard. An introduction to the theory and dynamics of group interaction including psychoeducational, support and therapeutic context. The various stages and process of group development 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. *Three hours lecture.*

HS 055   **3.0 Units**
Introduction To Case Management
Prerequisite: COUN 062. Course Advisory: Eligibility for English 001 and SCC minimum Math standard. An introductory course which acquaints students to the basic concepts and skills of case management. This course provides an introduction to the history and purpose of case management, case management concepts, legal and ethical considerations of case management, service planning and delivery, careers in case management and other topics. *Three hours lecture.*

Industrial Education

Mechatronics

Program Description
Mechatronics is the blending of electronics, mechanics, electrical. and computers to produce a well-rounded technician capable of handling the complex maintenance and operations tasks demanded by modern manufacturing, transportation, communication, and other industries. The modularization of electro-mechanical devices no longer requires in-depth specialization of a single field of study as more emphasis is placed on troubleshooting and replacement skills for maintenance and generalized knowledge of how systems work together for operations and purchasing and planning.

Certificate of Achievement and Associate of Arts Degree
A Certificate of Achievement can be obtained upon completion of the 42-unit major listed below. The Associate in Science Degree can be obtained by completing a total of 60 units, including the 42 unit major, the general education requirements, and electives. 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 Mechatronics Certificate of Achievement/Associate Degree will be able to:
1. Safely operate a variety of testing instruments and diagnostic tools.
2. Recognize complex systems and understand their function, operation, advantages and disadvantages.
3. Analyze complex systems and diagnose/troubleshoot problems.

REQUIRED COURSES . . . . Units
CIS 001 Introduction to Computer Science. 3
IT 050 Alternative Energy Technologies 3
IT 101 How Things Work 3
IT 151 Vocational Mathematics. 3
MT 120 Principles of Analog Electronics 3
MT 122 Principles of Digital Electronics 3
MT 130 Principles of Mechanical Power Systems 3
MT 132 Principles of Fluid Power Systems 3
MT 140 Principles of Industrial Electrical Systems 3
MT 142 Principles of Electrical Machinery 3
MT 162 Robotic Manufacturing Systems 3
MT 164 Programmable Logic Controllers. 3
Electives Selected from List A. 6
    Total Units **42**

List A (select 6 units)
ACR 100 Air Conditioning and Refrigeration 3
OR
ACR 101 Air Conditioning and Refrigeration 3
DRFT 045 Introduction to Computer-Aided
         Drafting (CAD) 3
DRFT 050 Basic Drafting 3
DRFT 079 Blueprint Reading. 3
IT 110 Modern Welding 3
IT 120 Electrical Safety 3
IT 140 Industrial Materials. 3
OCED 070 Occupational Soft Skills 3
OCED 090 Occupational Work Experience . . . . 1 - 6

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Mechatronics."

Industrial Education

Air Conditioning & Refrigeration

ACR   100   **3.0 Units**
Air Conditioning and Refrigeration
Course Advisory: SCC minimum English standard. A study of compression systems, controls, refrigerants, various refrigeration systems, and commercial applications designed to develop the ability to understand and apply the basic principles required to maintain and service this type of specialized equipment. *Three hours lecture.*

ACR   101   **3.0 Units**
Air Conditioning and Refrigeration
Course Advisory: ACR 100; SCC minimum English standard. The maintenance and servicing of commercial air conditioning and refrigeration systems with the study of techniques applied to refrigerant handling, systems controls, and compression systems. *Three hours lecture.*

Industrial Management

IT   050   **3.0 Units**
Alternative Energy Technologies
Course Advisory: SCC minimum English and Math standards. 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. *Three hours lecture.*

IT   101   **3.0 Units**
How Things Work
Course Advisory: SCC minimum English and Math standards. Provides an understanding of how the technology in our lives works using only basic concepts and rudimentary mathematics. This course considers objects from our daily environment and focuses on their principles of operation, histories, and relationships to one another. Students learn about common technologies through lecture, classroom discussion, and laboratory experiments. *Two hours lecture, three hours lab.*

IT   110   **3.0 Units**
Modern Welding
Course Advisory: SCC minimum English standard. Designed to acquaint the student with the fields of arc and acetylene welding, the tools and equipment used, shop safety and employment opportunities. *Two hours lecture, three hours lab.*

IT   111   **3.0 Units**
Modern Welding
Prerequisite: IT 110. Designed to acquaint 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. *Two hours lecture, three hours lab.*

IT   120   **1.0 to 3.0 Units**
Electrical Safety
Course Advisory: SCC minimum English and Math starndards. 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. Formerly ECTN 102. *One to Three hours lecture.*

IT   130   **1.0 Unit**
Fundamentals of Wire Cabling
Course Advisory: SCC minimum English and Math standards. Presents the principles and practices of copper cable wiring technology. Includes instruction in the design, installation, and maintenance of copper wiring systems for intelligent control systems, lighting and appliance control devices, communication, and networking. Also includes instruction in household and institutional power wiring. Formerly ECTN 111. *One hour lecture, one hour lab.*

IT   132   **1.0 Unit**
Fundamentals of Fiber Optics
Course Advisory: SCC minimum English and Math standards. Presents the principles and practices of fiber optics and optoelectronic technology. Includes instruction in the design, installation, and maintenance of fiber optic cabling and control systems and optoelectronic control systems for computer communication and networking systems. Formerly ECTN 112. *One hour lecture, one hour lab.*

IT   134   **1.0 Unit**
Fundamentals of Wireless Communication
Course Advisory: SCC minimum English and Math standards. Presents the principles and practices of wireless communication technology. Includes instruction in the design, installation, and maintenance of wireless communication and network systems. Emphasis is placed on system reliability, security, and cost containment concerns. Formerly ECTN 113. *One hour lecture, one hour lab.*

IT   140   **3.0 Units**
Industrial Material
Course Advisory: SCC minimum English standard. 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. *Two hours lecture, three hours lab.*

IT   151   **3.0 Units**
Vocational Mathematics
Course Advisory: SCC minimum English and Math standards. Focuses on mathematical functions, plane and solid geometry, measurement systems, algebra, and trigonometry applied to specific vocational areas. *Three hours lecture.*

Maintenance Technician

MT   120   **3.0 Units**
Principles of Analog Electronics
Course Advisory: SCC minimum English and Math standards. Introduces the topic of analog electronics as it applies to mechatronics. Studies include an introduction to DC and AC circuitry as well as advanced electronic components, instruments used in the operation, installation, and troubleshooting of electronic systems, schematic diagrams, and breadboarding. Students will construct several kits as part of the class. *Two hours lecture, three hours lab.*

MT   122   **3.0 Units**
Principles of Digital Electronics
Course Advisory: SCC minimum English and Math standards. Introduces the topic of digital electronics as it applies to mechatronics. Studies include an introduction to digital numbering systems, digital codes and logic, registers, memories, Boolean Algebra, and integrated circuits as well as advanced topics in computerized control systems. Students will construct several kits as part of the class. *Two hours lecture, three hours lab.*

MT   130   **3.0 Units**
Principles of Mechanical Power Systems
Course Advisory: SCC minimum English and Math standards. 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. *Two hours lecture, three hours lab.*

MT   132   **3.0 Units**
Principles of Fluid Power Systems
Course Advisory: SCC minimum English and Math standards. 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. *Two hours lecture, three hours lab.*

Industrial Education

MT   140   3.0 Units
Principles of Industrial Electrical Systems
Course Advisory: SCC minimum English and Math standards. Introduces the topic of DC, single-phase and three-phase AC circuits as they apply to mechatonics. Introduces commerical/industrial electrical installations that meet National Electrical Code requirements. Students will complete labs and wiring projects. Lab, electrical and worksite safety is emphasized. *Two hours lecture, three hours lab.*

MT   142   3.0 Units
Principles of Electrical Machinery
Prerequisite: A minimum grade of C in MT 120, or MT 140. Course Advisory: SCC minimum English and Math standards. 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. *Two hours lecture, three hours activity.*

MT   162   3.0 Units
Robotic Manufacturing Systems
Course Advisory: SCC minimum English and Math standards. 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. *Two hours lecture, three hours lab.*

MT   164   3.0 Units
Programmable Logic Controllers
Course Advisory: SCC minimum English and Math standards. 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. *Two hours lecture, three hours lab.*

Interdisciplinary Studies

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 an 18-unit area of academic focus.

     I. All students will complete the Solano College Option A GE Pattern: Minimum 22 semester units.

    II. All students will complete an 18-unit Area of Emphasis from the selections below.

   III. Electives may be necessary to total 60 overall units required for the Associate degree.

   IV. All courses for this 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 an Associate Degree 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 by an academic area of emphasis.
3. Acquire a knowledge base that encourages lifelong learning in order for them to effectively adapt to a complex and changing society.

Areas of Emphasis

1. 18 units required from one Area of Emphasis listed below.
2. Courses selected cannot also be used to fulfill GE areas.
3. Courses numbered 1-49 transfer to UC, CSU and most independent and out-of-state colleges. Courses numbered 50-99 transfer to CSU and some independent and out-of-state colleges and universities. Courses numbered 100-199 are associate degree applicable but usually do not transfer to baccalaureate-granting institutions.

Arts and Humanities

Minimum 18 units required

Minimum six units from the Arts and six units from Humanities

Maximum three units of credit for studio/performance courses

Courses in this area are designed to cultivate intellect, imagination, sensibility and sensitivity. Students will study great works of the human imagination and will examine their own esthetic and creative experience. Awareness and appreciation of humanistic disciplines will be explored and encouraged. Students will be exposed to the study of human culture from a variety of perspectives.

ARTS

ART 001, 002, 003, 010, 011, 012

ART Studio: 004, 006, 007, 008, 014, 016, 017, 019, 020, 021, 023, 026, 029, 031, 032, 034, 035, 037, 038, 039, 040, 041, 042, 043

CINA 010, 011

CINA Performance: 015

MUSC 001, 002, 005, 007, 008, 013

MUSC Studio: 009, 010, 011, 014, 015, 016, 017, 018, 019, 020, 023, 024, 025, 026, 027, 028, 031, 032, 033, 034, 035A, 035B, 038, 039, 041A, 041B, 042A, 042B

PHOT Performance: 030

PHOT 035

THEA Performance: 001, 002

THEA 006, 010, 011, 013, 048A

TV 050

TV Performance: TV 055, 060

Interdisciplinary Studies

HUMANITIES
ENGL 002, 006, 007, 012, 013, 014, 016, 018, 021, 023, 024, 025, 030, 031, 032, 033, 035, 036, 037, 038, 040, 041, 044, 046, 047
FREN 001, 002, 003, 004, 011, 012, 031, 032
GRMN 001, 002, 003, 004, 011, 012, 031, 032, 033, 034
ITAL 031, 032
HIST 002, 003, 004, 005, 010, 017, 018, 028, 029, 031, 037
LATN 001, 002, 003
PHIL 003, 004
SPAN 001, 002, 003, 004, 011, 012, 025, 031, 032, 033, 034

Communication
Minimum 18 units required
Minimum three units from each of three different disciplines
These courses emphasize the content, understanding and production of verbal and written communication. Students will learn to evaluate and assess communication as a process of human symbolic interaction while developing skills in such areas as reasoning, organization, accuracy, reading and effective listening.

BUS 092
COMM 001, 002, 006, 008, 010, 012, 015, 060
COUN 062
ENGL 002, 004, 006, 007, 058, 062
FREN 001, 002, 003, 004, 031, 032
GRMN 001, 002, 003, 004, 031, 032, 033, 034
HS 054
ITAL 031, 032
JOUR 001, 002, 011, 060
LATN 001, 002, 003
PHIL 005
SPAN 001, 002, 003, 004, 025, 031, 032, 033, 034
SOCS 030, 051
TV 050, 060, 061

Science and Quantitative Reasoning
Minimum 18 units required
Minimum six units from Science and six units from Quantitative Reasoning
Chemistry courses may not be used in both areas must choose one area.
This emphasis is intended to involve inquiry into the physical universe and its life form 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 area includes courses in areas such as computer science, math, and science.

SCIENCE
ANTH 001
ASTR 010, 020, 030, 040
BIO 001, 002, 004, 005, 012, 012L, 014, 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 020V, 020W
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 (GEOL 010)
MATH 002, 004, 011, 012, 020, 021, 022, 023, 030, 031, 040, 051, 102, 103, 104, 112, 114
PSYC 004

Social Science
Minimum 18 units required
Minimum three units from each of three different disciplines
This emphasis examines people and their interactions with each other, within their social and political institutions and as members of the larger society. Course work will explore behavior - sometimes the behavior of an individual, other times the behavior of a system, society, or culture. Topics and discussion will stimulate critical thinking about ways people have thought and acted in response to their upbringing, environment and society.

ANTH 002, 007
CDFS 038, 039, 040, 050, 052, 053, 070
COMM 012
COUN 055, 058, 062, 083
CJ 001, 002, 011
ECON 001, 002, 010
GEOG 002, 004
HIST 002, 003, 004, 005, 010, 017, 018, 028, 029, 030, 031, 037
HS 051, 054, 053
IR 001
JOUR 011
PLSC 001, 002, 003, 005, 016, 019
PSYC 001, 002, 004, 005, 010, 020, 024, 030, 034, 065
SOCS 022, 023, 025, 027, 030, 051, 053
SOC 001, 002, 023, 030, 040

Wellness and Self Development

Minimum 18 units required
Minimum six units from Wellness and six units from Self Development
Maximum three units of credit for Physical Education activity and Athletics courses

This emphasis is designed to equip students with information and tools for lifelong wellness and self development as integrated beings. Students will be well acquainted with the vast landscape of wellness and self development, taking into account the psychological, biological, developmental, physical factors, and they will be able to make effective decisions about optimizing their own wellness, lifestyle, and performance.

WELLNESS
ATHL 001, 002A, 002B, 003, 004, 010, 015, 016A, 016B, 017, 020
BIO 004, 005, 016
HED 002, 003
NUTR 010, 012
KINE 020A, 020H, 020S, 020V, 020W
KINE Activity: 001A, 001D, 002A, 002B, 002D, 002E, 003A, 003C, 003D, 003E, 004A, 004B, 004C, 004D, 004E, 004F, 004H, 004J, 004K, 004M, 004N, 004P, 005C, 005G, 005J, 005K, 005M, 005N, 005P, 006A, 006B, 006C, 006E, 006F, 007A, 007C, 007F, 008A, 008B, 008C, 008F, 008G, 009A, 009B, 009C, 009E, 009F, 009G, 009H, 009P, 078

SELF DEVELOPMENT
COUN 007, 050, 055, 058, 060, 062, 063, 083, 098
HS 051, 053, 054
CDFS 038, 039, 040, 053, 070
LR 001, 010, 011
PSYC 001, 005, 010, 020, 024, 030, 034, 040, 065
SOCS 051

Interior Design

Program Description

This program is designed for vocational majors planning employment in interior design or interior merchandising occupations.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion the 43.5-44.5-unit major. The Associate in Science Degree can be obtained upon completion of a total of 60 units, including the major, general education requirements, and electives. 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 Interior Design Certificate of Achievement/Associate Degree will be able to:

1. Apply knowledge of design principles to identify, analyze, and solve design problems, both individually and collaboratively, in residential/commercial environments.
2. Apply knowledge of art/architecture history; space planning; materials, including textiles; products, including furniture; and technical systems to identify, analyze and solve design problems, both individually and collaboratively in residential/commercial environments.
3. Execute interior design work with professionalism, including professional communication (written and oral); timely work; attentiveness to standards; effective business practices; and follow-through from concept to completion.

REQUIRED COURSES . . . . **Units**
INTD 070 Introduction to Interior Design. 3
INTD 071 Textiles, Materials, and Finishes 3
INTD 073 History of Western Interiors and Architecture . 3
INTD 075 Professional Practices for Interior Designers . . 3
ART 002 Art History 3
ART 006 Design Principles in 2-Dimensions 3.5
ART 007 Design-Color. 3.5
ART 014 Introduction to Drawing. 3.5
DRFT 045 Introduction to Computer-
    Aided Drafting (CAD) 3
DRFT 050 Basic Drafting 3
OCED 090 Occupational Work Experience 3
One course from List A (3 units) 3
Two courses from List B (3 – 3.5 Units) . . . . 6 – 7
    Total Units . . . . **43.5 – 44.5**

List A: Choose one course (3 units)
from the following. . . . . Units
BUS 005 Introduction to Business. 3
BUS 092 Business Communication. 3
COMM 001 Introduction to Public Speaking 3
COMM 010 Interpersonal Communication. 3

List B: Choose two courses (6 – 7 units)
from the following. . . . . Units
ACCT 050 Computer Accounting. 3
ART 001 Art History 3
ART 003A Arts of Asia 3
ART 003B Arts of Africa, Oceania, and the Americas 3
ART 008 Design Principles in 3-Dimensions 3.5
ART 060 Exhibition Design. 3.5
DRFT 060 Architectural Drafting 3
DRFT 079 Blueprint Reading. 3
INTD 065 Kitchen and Bathroom Design 3
MKT 174 Retail Merchandising. 3
THEA 020 Lighting 3

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Interior Design."

Interior Design

INTD 065   **3.0 Units**
Kitchen and Bathroom Design
Prerequisite: INTD 050. Course Advisory: SCC minimum English and Math standards. This course covers the design of efficient and aesthetic kitchens and baths including space considerations, equipment, appropriate materials, building codes, and human factors. *Three hours lecture.*

INTD 070   **3.0 Units**
Introduction to Interior Design
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. An examination of the built environment with emphasis on residential design. The elements and principles of design are examined as they relate to the functional and aesthetic aspects of interior spaces. Students develop skills in critical analysis of interiors and create individual solutions through design projects. Field trip may be required. *Three hours lecture.*

INTD 071   **3.0 Units**
Textiles, Materials and Finishes
Prerequisite: INTD 070 with a minimum grade of C. Course Advisory: Successful completion of English 001. Comprehensive survey of interior design textiles, materials and finishes available today. Guidelines and hands-on experience for selecting interior fabrics and finish materials for appropriateness, quality, performance and cost. Knowledge of and exposure to their characteristics, uses, applicable laws and codes, universal design application, and sustainability. Field trip may be required. *Three hours lecture.*

INTD 073   **3.0 Units**
History of Western Interiors and Architecture
Prerequisite: INTD 070 with a minimum grade of C. Course Advisory: Successful completion of English 001 and SCC minimum Math standards. An exploration of the history and design of Western architecture, interiors, and furniture from the ancient world to the present day. Examination of the influence of historical periods and their developments on today's design. Stylistic and technical developments, as well as social and historical forces that have affected design, will be discussed. Field trip may be required. *Three hours lecture.*

INTD 075   **3.0 Units**
Professional Practices for Interior Designers
Prerequisite: A minimum grade of C in INTD 070, INTD 071, and INTD 073. Course Advisory: Successful completion of English 001 and SCC minimum Math standard. This course focuses on professionalism in interior design business ethics and working relationships with related professions. Business practices and business management tools are explored with input from professional designers involved with a variety of different types of practices. Liability, codes, and laws are examined and factored into student projects with both residential and professional practices. Field trip may be required. *Three hours lecture.*

International Relations

Program Description
The International Relations program provides an interdisciplinary, integrated approach to an understanding of modern global society and events, preparing the student for a variety of perspectives in a rapidly changing world. Students pursue global interests in language, history, culture, business, government, fine arts, literature, science, and other studies. Students in International Relations will prepare for transfer to universities offering International Relations majors or related fields. Course work will also broaden their perspective and skills to enter the business world. This is an interdisciplinary program so the descriptions for the individual courses can be found under the appropriate disciplines.

Associate in Arts Degree
The Associate in Arts Degree can be obtained by completing a total of 60 units, including the 28-unit major, general education requirements, and electives. 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
This information is not available at the time of printing. Please check online for current information as it is available.

REQUIRED COURSES . . . . **Units**
ECON 001 Principles of Economics (Macroeconomics) . . 3
ECON 002 Principles of Economics (Microeconomics) . . 3
FOREIGN LANGUAGE (Choose 10 units from FREN,
GRMN, or SPAN numbered 001-034) * 10
GEOG 004 World Geography 3
HIST 005 History of Western Civilization Since 1500 3
IR 001 Global Interdependence 3
Select three units from the electives below 3
    Total Units **28**

Select three (3) units from the following:
ANTH 002 Cultural Anthropology 3
ART 001 Art History 3
ART 003 World Art 3
BIO 012 Environmental Science 3
BUS 060 Introduction to International Business 3
COMM 010 Interpersonal Communications 3
ENGL 016 Masterpieces of Western World Literature . . . 3
FOREIGN LANGUAGE—Any course numbered
    001-034 not used above . . . . 3 - 5
GEOG 002 Cultural Geography 3
HIST 003 Modern World History 3
PLSC 002 Introduction to Comparative Government 3

*A passing score on any foreign language standardized proficiency examination can be substituted for the foreign language requirement.

IR   001   3.0 Units
Global Interdependence
Course Advisory: Eligibility for English 001; PLSC 001; ENGL 062. This is the gateway course for the International Relations Major. 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. This course adopts a multidisciplinary perspective and may feature guest speakers or presentations from a variety of disciplines. *Three hours lecture.*

Journalism

Program Description
Journalism teaches critical thinking and communication skills that enable studnts to translate events and issues of importance accurately and responsibly. Students who may benefit from the major are those anticipating careers in newspapers; television or film; photojournalism; layout, computer graphics or graphic design; advertising or public relations; or media management.

Associate in Arts Degree
An Associate in Arts Degree can be obtained upon completion of 60 units, including the required core courses, program electives, and courses in one of four emphasis areas (a total of 24 units); and completion of the general education requirements and electives. 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 Journalism Associate Degree will be able to:
1. Demonstrate the fundamental research and critical thinking skills necessary to analyze and interpret current issues in a professional media environment.
2. Utilize written, oral and visual communication skills to analyze, interpret and produce accurate news and opinions across a variety of platforms.
3. Recognize fundamental legal and ethical aspects of journalism and apply them to real-life circumstances.
4. Demonstrate a working knowledge of the fundamental technological applications of media production.

REQUIRED COURSES . . . . **Units**
JOUR 001 Newswriting and Reporting. 3
JOUR 002 Introduction to Feature and
　　　　　Magazine Writing. 3
JOUR 011 Introduction to Mass Communication 3
JOUR 060 Publications Laboratory 3
Program electives from Area I, Area II, and Area III. . . . 12
　　Total Units **24**

Program electives are intended to improve students' critical thinking and communication skills and to give them tools to succeed in the workplace. Students must take at least three units in each of the following areas:

Area I
COMM 006 Argumentation and Debate. 3
ENGL 002 Critical Thinking and Writing
　　　　　About Literature 4
ENGL 004 Critical Thinking and Composition:
　　　　　Language in Context. 3
MATH 011 Elementary Statistics 4
PHIL 005 Critical Thinking: The Philosophic
　　　　　Grounds of Literacy 3

Area II
ART 006 Design Principles in 2-Dimensions. 3.5
ART 007 Design-Color 3.5
ART 052 Lettering and Layout. . . . . 2 - 3.5
ART 056 Graphic Design I 3.5
ART 057 Graphic Design II 3.5
COMM 001 Introduction to Public Speaking. 3
ENGL 006 Creative Writing 1 3
ENGL 058 Creative Writing: The Literary Magazine 3
JOUR 050 Grammar and Style for Media Writers 1
PHOT 030 Beginning Photography 3
PHOT 056 Photojournalism &
　　　　　Documentary Photography. 3
PHOT 070 Beginning Digital Photography 3

THEA 050 Performance for the Camera 3
TV 055 Beginning Television Production 3
TV 056 Advanced Television Production 3
TV 060 Television and Film Writing 3

Area III
OCED 090 Occupational Work Experience . . . . 1 - 8
Any modern foreign language

Recommended Electives
Any course from a second emphasis area
Any foreign language
JOUR 060 Publications Laboratory. . . . . 2 - 3
MATH 011 * Elementary Statistics 4
OCED 090 Occupational Work Experience. . . . . 1 − 8
OCED 091 General Work Experience. . . . . 1 - 6

NOTE: Courses with an "*" have prerequisites or advisories other than eligibility for ENGL 001

Journalism

Associate in Arts in Journalism for Transfer

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 for Transfer (AA-T) in Journalism 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 (AA-T in Journalism) are guaranteed admission to the CSU system, but not to a particular campus or major.

Associate in Arts in Journalism for Transfer

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 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 Journalism for Transfer degree will be able to:
1. Demonstrate the research and critical thinking skills necessary to analyze and
2. interpret current issues in a professional media environment.
3. Demonstrate a working knowledge of the written, oral and visual communication
4. skills necessary to analyze, interpret and produce accurate news and editorials
5. across a variety of platforms.
6. Analyze and debate the legal and ethical issues of journalism and apply them to
7. individual circumstances.
8. Demonstrate a working knowledge of the fundamental technological applications of
9. media production

REQUIRED COURSES . . . . Units
JOUR 001 JOUR 001 Newswriting and Reporting 3
JOUR 011 Introduction to Mass Communication 3
JOUR 060 Publications Laboratory 3
Select a minimum of 3 units from List A. 3
Select a minimum of 6 units from List B 6-7

List A (select a minimum of 3 units): . . . . Units
JOUR 061 Publications Laboratory II 3
PHOT 056 Photojournalism &
   Documentary Photography 3

List B (select a minimum of 6 units): . . . . Units
CIS 085 Digital Publishing with InDesign 3
COMM 006 Argumentation and Debate. 3
ECON 001 Principles of Economics (Macroeconomics) . . 3
ECON 002 Principles of Economics (Microeconomics) . . 3
MATH 011 Elementary Statistics 4

Required Major Total Units . . . . 18 - 19
CSU General Education or IGETC Pattern Units . 37 - 39
CSU Transferable Electives (as needed to reach 60 transferable units)* . . . . 11 - 14

   Total Degree Units 60

* 9 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.

Journalism

JOUR 001   **3.0 Units**
Newswriting & Reporting
Prerequisite: Eligibility for English 001. This course teaches the theory and practice of writing news stories for the media. The student learns effective writing and interviewing strategies, common story structures, grammar and style rules, libel and privacy laws. C-ID JOUR 110. *Three hours lecture.*

JOUR 002   **3.0 Units**
Introduction to Feature and Magazine Writing
Prerequisite: Eligibility for English 001. This class teaches the theory and practice of feature writing, including profiles, critical reviews, opinion columns, travel, news features and trend stories. Students learn research and reporting methods, grammar and style rules, libel and privacy laws, and tools for marketing their stories. *Three hours lecture.*

JOUR 011   **3.0 Units**
Introduction to Mass Communication
Prerequisite: Eligibility for English 001. Study of the mass media including newspapers, magazines, radio, television, motion pictures and advertising which examines the standards, ethics, and rights of the media and the relationship of government and the public to the various media forms. Emphasis is on the functions, limitations, and responsibilities of the press, as well as the past, present and future impact on society and the individual. Attention will be given to theories of persuasion, the symbolic power and manipulation of images, and the relationship between information and knowledge. Essay examinations and critical papers are required. C-ID JOUR 100. *Three hours lecture.*

JOUR 050   **1.0 Unit**
Grammar & Style for Media Writers
Prerequisite: Eligibility for English 001; Course Advisory: SCC minimum Math standard. Intensive review of grammar, word use, spelling, and principles of clear, concise writing for the media. This course is a Pass/No Pass only course. *Two hours lecture (8-week course).*

JOUR 059   **1.0 Unit**
News Media Lab
Course Advisory: Eligibility for English 001. This one-unit laboratory class is intended for non-journalism majors to learn the fundamentals of media reporting while working as a staff member of the student news publications, The Tempest newspaper and the SolanoTempest.net website. Students may work in the areas of writing, photography, illustration or multimedia, and will be introduced to: journalistic laws and ethics, opinion and news writing, covering the campus community, working on deadline, visual communication, and working on a team to produce a journalistic product for distribution to a campus-wide audience. Students are limited to four classes within the Publications Laboratory family. Journalism majors should enroll in Journalism 060. *Three hours lab.*

JOUR 060   **3.0 Units**
Publications Laboratory
Prerequisite: Eligibility for English 001. This course focuses on creating content and producing the student news publications, The Tempest newspaper and the SolanoTempest.net website, as a practical laboratory that produces a journalistic product for distribution to a college-wide audience. Journalistic ethics and legal aspects will be covered. Students will work primarily in one of the following areas: researching, writing and editing articles, taking photographs, creating illustrations, creating multimedia stories, or designing pages and graphics. Students are limited to four classes within the Publications Laboratory family. C-ID JOUR 130. *Seven hours lab, two hours activity.*

JOUR 061   **1.0 to 3.0 Units**
Publications Laboratory II
Prerequisite: JOUR 060 with a minimum grade of C or equivalent. Course advisory:Eligibility for English 001. Intermediate journalism students will broaden their newsgathering skills while creating content for and producing the student news publications, The Tempest newspaper and the SolanoTempest.net website. This is a practical laboratory that produces a journalistic product for distribution to a college-wide audience. Journalistic ethics and legal aspects will be covered. Students will work primarily in two of the following areas: researching, writing and editing articles, taking photographs, creating illustrations, creating multimedia stories, or designing pages and graphics. Students are limited to four classes within the Publications Laboratory family. C-ID JOUR 131. *Seven hours lab, two hours activity.*

Journalism

JOUR 062   2.0 to 3.0 Units
Publications Laboratory III
Prerequisite: JOUR 061 with a minimum grade of C. Course Advisory: Eligibility for English 001. Intermediate journalism students will provide editorial leadership and in-depth coverage for the student news publications, The Tempest newspaper and the SolanoTempest.net website, as a practical laboratory that produces a journalistic product for distribution to a college-wide audience. Journalistic ethics and legal aspects will be covered. Students will work primarily in three of the following areas: editorial leadership, indepth coverage, researching, writing and editing articles, taking photographs, creating illustrations, creating multimedia stories, or designing pages and graphics. Students are limited to four classes within the Publications Laboratory family. *Five to seven hours lab, one to two hours activity.*

JOUR 064   1.0 Unit
Publications Portfolio
Prerequisite: JOUR 064 with a minimum grade of C. Course Advisory: Eligibility for English 001. Students with prior instruction in reporting, editing, photography, illustration, design or digital media will integrate their journalism skills to provide editorial leadership and/or create published works for the student news publications, The Tempest newspaper and the SolanoTempest.net website, while learning the basic principles of preparing a professional portfolio. An intermediate class for students preparing for employment in journalism and related fields. Students are limited to four classes withing the publications family. *Three hours lab.*

JOUR 075   3.0 Units
Intermediate Newswriting and Reporting
Prerequisite: JOUR 001 with a minimum grade of C. This course is a continuation of the introductory newswriting/reporting course and focuses on beat coverage including government, public safety, courts, and education for various news media platforms. Students will learn research and reporting methods and how to report for a variety of news purposes including: news, opinion, social issues, and feature or investigative pieces. *Three hours lecture.*

JOUR 099   1.0 to 3.0 Units
Journalism Honors: Field Study
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; and permission of the School Dean based on instructor availability. Course Advisory: Eligibility for English 001 and SCC minimum Math standards. An independent study class designed for students who have successfully completed at least two journalism classes and wish to do field work. The student works by arrangement with the instructor. Students may take this course up to the maximum number of units over multiple semesters. *Three to nine hours by arrangement.*

Kinesiology

(Formerly Physical Education)

Physical Education

Program Description
This program offers students activity curriculum, technical skills, and professional development courses to develop fitness or to prepare students for transfer in various fields, including physical education.

Associate in Science Degree
The Associate in Science Degree can be obtained by completing a total of 60 units, including the 30-unit major, general education requirements and electives. All courses for this 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 an Associate Degree will be able to:
1. Understand the psychological, physiological, and social benefits of physical activity.
2. Demonstrate an understanding of the 5 basic components of fitness (including the F.I.T.T.) and the R.I.C.E. principle.
3. Demonstrate an understanding of the current trends and practices in human performance and the importance of diet and exercise for lifetime fitness.

REQUIRED COURSES . . . . **Units**
KINE 020A Foundations of Physical Education 3
KINE 020H Care and Prevention of Athletic Injuries 3
KINE 020S Advanced First Aid and Emergency Care . . . 2
KINE 020V Introduction to Sports Science. 3
KINE Activity Courses * 6
BIO 004 Human Anatomy. 5
BIO 005 Introductory Physiology. 5
HED 002 Health Education. 3
OR
HED 003 Women's Health Issues 3
    Total Units 30

*At least one activity course selected from four of the seven listed categories: Aquatics (002A, 002B, 002D, 002E), Combatives (003A, 003C, 003D, 003E), Dance (004A, 004B, 004C, 004D, 004F, 004H, 004J, 004K, 004N), Fitness Courses (005C, 005G, 005J, 005K, 005M, 005N, 005P, 006A, 006C, 006E, 006F, 078), Individual ports (007A, 007C, 007F), Racquet Sports (008A, 008B, 008C, 008E, 008F), and Team Sports (009A, 009B, 009C, 009E, 009F, 009G, 009H, 009P, or Intercollegiate Athletics course).**

Recommended Electives
ANTH 001 Physical Anthropology
NUTR 010 Nutrition
MATH 011 Elementary Statistics
KINE 004F Hip-Hop Dance
KINE 004G Performance Dance Ensemble
KINE 004M Intermediate Ballet
KINE 005D Circuit Training
KINE 006F Intermediate Yoga
KINE 007B Beginning Road Bicycling
KINE 020W Concepts of Physical Fitness
KINE 020D Baseball Theory and Practice I
AND
KINE 020E Baseball Theory and Practice II
KINE 020F Football Theory and Practice I
AND
KINE 020G Football Theory and Practice II

KINE 020P Softball Theory and Practice I
AND
KINE 020J Softball Theory and Practice II
KINE 020M Volleyball Theory and Practice I
AND
KINE 020N Volleyball Theory and Practice II
KINE 020Q Soccer Theory and Practice I
AND
KINE 020R Soccer Theory and Practice II
KINE 020X Basketball Theory and Analyses I
AND
KINE 020Y Basketball Theory and Analyses II
KINE 055 Sports Medicine- Athletic Training Internship/Practicum
KINE 057 Introduction to Sports Psychology
KINE 071 Back Care and Injury Management

Any activity course listed above not used to satisfy requirements of the major.

Kinesiology

Associate in Arts in Kinesiology for Transfer

Program Description
The Associate in Arts in Kinesiology for Transfer degree is designed to provide a seamless transfer pathway for students interested in pursuing at least one Kinesiology degree option in the CSU system.

Associate in Arts in Kinesiology for Transfer
Successful completion of the Associate in Arts in Kinesiology for Transfer degree 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 degree, 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 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 Kinesiology for Transfer degree will be able to:
1. Use the fundamentals of biomechanics and exercise physiology and apply them to sport and fitness pedagogy.
2. Assess and measure the five components of fitness through improvements in fitness levels by comprehensive analysis of aerobic capacity, body composition, muscular strength and endurance, and flexibility.
3. Define and utilize the varieties of fitness and training principles as they pertain to each of the body systems in promoting homeostasis and how such body systems adapt to the demands of fitness and sports training.
4. Discuss how sociological, psychological, historical, and philosophical factors influence the discipline of Kinesiology and sports.

REQUIRED COURSES . . . . **Units**
KINE 020A Introduction to Kinesiology 3
BIO 004 Human Anatomy 5
BIO 005 Introductory Physiology 5
A minimum of three (3) units from
Movement-based courses
(maximum of one course from any group) . . . . 3 - 4
Select two courses from List A . . . . 7 -10
    Total Units . . . . **23 – 27.5**

Movement-based Courses (maximum of one course group)
Aquatics: . . . . **Units**
KINE 002A Beginning Swimming . . . . 1 -1.5
KINE 002B Intermediate Swimming . . . . 1 -1.5
KINE 002D Swim for Fitness . . . . 1.5 -2
KINE 002E Aqua Aerobics . . . . 1 -1.5

Movement-based Courses (maximum of one course)
Combatives: . . . . **Units**
KINE 003D Beginning Judo . . . . 1 -1.5
KINE 003E Intermediate Judo . . . . 1 -1.5

Movement-based Courses (maximum of one course)
Dance: . . . . **Units**
KINE 004J Beginning Ballroom Dance . . . . 1.5 -2

Movement-based Courses (maximum of one course).
Fitness: . . . . **Units**
KINE 005J Beginning Body Conditioning . . . . 1 -1.5
KINE 005K Intermediate Body Conditioning . . . . . . 1 -1.5
KINE 005M Beginning Weight Training . . . . 1 -1.5
KINE 005N Intermediate Weight Training . . . . 1 -1.5
KINE 006E Fundamentals of Yoga . . . . 1.5 -2

Movement-based Courses (maximum of one course)
Individual Sports: . . . . **Units**
KINE 007F Beginning Archery . . . . 1 -1.5
KINE 008A Beginning Tennis . . . . 1 -1.5
KINE 008B Intermediate Tennis . . . . 1 -1.5
KINE 008E Beginning Badminton . . . . 1 -1.5
KINE 008F Intermediate Badminton . . . . 1 -1.5

Kinesiology

Movement-based Courses (maximum of one course)
Team Sports: . . . . Units
KINE 009A Beginning Basketbal. . . . . 1 -1.5
KINE 009B Indoor/Outdoor Soccer . . . . 1 -1.5
KINE 009C Intermediate Soccer . . . . 1 -1.5
KINE 009G Softball . . . . 1 -1.5
KINE 009H Beginning Volleyball . . . . 1 -1.5
KINE 009P Intermediate Volleyball . . . . 1 -1.5

Select two courses from List A . . . . Units
BIO 016 Introduction to Human Biology 3
MATH 011 Elementary Statistics 4
KINE 020S Advanced First Aid and Emergency Care . . . 3
PHYS 002 General Physics (Non-calculus). 5
OR
PHYS 006 Physics for Science and Engineering. 5

Required Major Total Units . . . . 22 - 26
CSU General Education or IGETC Pattern Units . 37 - 39
CSU Transferable Electives
   (as needed to reach 60 transferable units)* . . . . . . 6 - 8
    Total Degree Units 60

  * 9 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.

Kinesiology

Sports Medicine/Fitness Science – (Transfer)

Program Description
Designed to allow students to transfer into baccalaureate programs in Physical Education or related areas with a Sports Medicine emphasis. The broad field of Sports Medicine/Fitness Science includes post-baccalaureate employment opportunities in teaching, athletic training, physical therapy, sports rehabilitation, biomechanics, exercise physiology, motor learning, sports orthopedics, sports podiatry, sports psychology, cardiac rehabilitation, EKG technician, and fitness technician.

Associate in Science Degree
The Associate in Science Degree can be obtained upon completion of a total 60 units, including the 33-34-unit major, the general education requirements, and electives. All courses for this 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 Sports Medicine/Fitness Science Associate Degree will be able to:
1. Understand the psychological, physiological, and social benefits of physical activity.
2. Demonstrate an understanding of the 5 basic components of fitness (including the F.I.T.T.) and the R.I.C.E. principle.
3. Demonstrate an understanding of the current trends and practices in human performance and the importance of diet and exercise for lifetime fitness.

REQUIRED COURSES . . . . **Units**
KINE 020A Foundations of Physical Education 3
KINE 020H Care and Prevention of Athletic Injuries 3
KINE 020S Advanced First Aid and Emergency Care . . . 2
KINE 020V Introduction to Sports Science 3
KINE 020W Concepts of Physical Fitness 3
KINE Activity courses * . . . . 2 - 3
BIO 005 Introductory Physiology 5
BIO 004 Human Anatomy 5
CHEM 010 Intermediate Chemistry 4
NUTR 010 ** Nutrition 3
    Total Units . . . . **33 – 34**

*At least one activity course selected from four of the seven listed categories: Aquatics (002A, 002B, 002D, 002E), Combatives (003A, 003C, 003D, 003E), Dance (004A, 004B, 004C, 004D, 004F, 004H, 004J, 004K, 004N), Fitness Courses (005C, 005G, 005J, 005K, 005M, 005N, 005P, 006A, 006C, 006E, 006F, 078), Individual Sports (007A, 007C, 007F), Racquet Sports (008A, 008B, 008C, 008E, 008F), and Team Sports (009A, 009B, 009C, 009E, 009F, 009G, 009H, 009P, or Intercollegiate Athletics course).

**For those transferring to UC in preparation for a physical therapy major, it is recommended that CHEM 011-Basic Organic Chemistry & Biochemistry be taken in place of NUTR 010.

Recommended Electives
CIS 001 Introduction to Computer Science
HED 002 Health Education
KINE 055 Sports Medicine--Athletic Training Internship/Practicum
KINE 057 Introduction to Sports Psychology
MATH 011 Elementary Statistics
PSYC 020 Personal and Social Behavior

Kinesiology

Fitness Professional Job-Direct Certificate

The required courses must be completed with a grade of C or better.

REQUIRED COURSES . . . . **Units**
KINE 005J Beginning Body Conditioning 1
OR
KINE 005K Intermediate Body Conditioning
KINE 020S Advanced First Aid and Emergency Care . . . 2
KINE 020W Concept of Physical Fitness. 3
KINE 020V Introduction to Sports Science 3
NUTR 010 Nutrition. 3
5 additional units from the following list: * 5

*At least one activity course selected from four of the seven listed categories: Aquatics (002A, 002B, 002D, 002E), Combatives (003A, 003C, 003D, 003E), Dance (004A, 004B, 004C, 004D, 004F, 004H, 004J, 004K, 004N), Fitness Courses (005C 005G, 005J, 005K, 005M, 005N, 005P, 006A, 006C, 006E, 006F, 078), Individual Sports (007A, 007C, 007F), Racquet Sports (008A, 008B, 008C, 008E, 008F), and Team Sports (009A, 009B, 009C, 009E, 009F, 009G, 009H, 009P).

   Total Units **17**

Health Education

HED   002   **3.0 Units**
Course Advisory: SCC minimum English and Math standards. A survey course with a multifaceted view of health with physical, mental, and social dimensions. The course extends beyond the structure and function of one's body to include feelings, values, and reasoning. Examinations and a project are required. Satisfies one-half of the Health, Physical Education graduation requirement. *Three hours lecture.*

HED   003   **3.0 Units**
Women's Health Issues
Course Advisory: SCC minimum English and Math standards. 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. Open to all students. Satisfies one-half of the Health, Physical Education graduation requirement. *Three hours lecture.*

Kinesiology/Athletics

(Formerly Physical Education) Courses number 001A through 001D are modified for students with specific physical disabilities. The instructor, with recommendations from each student's physician, develops an individualized program for each student. A permission card confirming a disability must be obtained from Disability Services prior to registration.

KINE   001A   **1.0 or 1.5 Units**
Adapted Aquatics
Prerequisite: Permission of Disabilities Services Counselor confirming disability. A specialized course in water orientation, exercise, and swimming designed to meet the individual needs of those unable to participate fully in a regular swimming class. Pre-tests and post-test serve to evaluate student achievement. Formerly PE 001A. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

KINE   001D   **1.0 or 1.5 Units**
Adapted Weight Training
Prerequisite: Permission of Disabilities Services Counselor confirming disability. Specialized course in weight training that includes an individualized program that focuses on the specific disability of each student. Pre-tests and post-tests (written and practical) serve to evaluate student achievement. Formerly PE 001D. *One-half hour lecture, one and one-half hour or two and one-half hours activity.*

Kinesiology

Kinesiology

(Formerly Physical Education) Sequence courses (Beginning, Intermediate) may not be taken concurrently; and sequence courses may not be taken out of sequence.

KINE   002A   1.0 or 1.5 Units
Beginning Swimming
Course Advisory: SCC minimum English and Math standards. Covers the fundamental techniques of swimming, terminology, water adjustment, fluid mechanics, and water safety. Swimming strokes include freestyle and backstroke. Skills and written exams are used to evaluate student achievement. Formerly PE 002A. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

KINE   002B   1.0 or 1.5 Units
Intermediate Swimming
Prerequisite: KINE 002A. Course Advisory: SCC minimum English and Math standards. Covers the 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. Skills and written exams are used to evaluate student achievement. Formerly PE 002B. *One-half hour lecture, one and one-half hours or two and one-half hours of activity.*

KINE   002D   1.0 or 1.5 Units
Swim for Fitness
Course Advisory: SCC minimum English and Math standards. Designed to provide 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. Skills exams and written exams serve to evaluate student achievement. Formerly PE 002D. *One hour lecture, one or two hours activity.*

KINE   002E   1.0 or 1.5 Units
Aqua Aerobics
Course Advisory: SCC minimum English and Math standards. A comprehensive fitness program with the focus on aerobic conditioning via aquatic exercise designed to improve muscular strength, endurance and cardiovascular fitness. Exercises conducted in the water will utilize the resistance of water and equipment to develop strength and conditioning. Formerly PE 002E. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

KINE   003A   1.0 or 1.5 Units
Beginning Self Defense
Course Advisory: SCC minimum English and Math standards. Designed to equip 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. Skills exam is used to evaluate student achievement. Formerly PE 003A. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

KINE   003C   1.0 or 1.5 Units
Foil Fencing
Course Advisory: SCC minimum English and Math standards. Includes the fundamental skills, strategies, and rules of (French) foil fencing. The early history, evolution of hand weaponry, the dueling sword, the French and Italian techniques, French terminology, and etiquette are included. Written exams and skills exams serve to evaluate student achievement. Required Equipment: Glove; cup protection (men). Formerly PE 003C. *One-half hour lecture, one and one-half or two and one-half hours activity.*

Kinesiology

KINE   003D   1.0 or 1.5 Units
Beginning Judo
Course Advisory: SCC minimum English and Math standards. 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. Written and skills exams are used to measure student achievement. Required field trip. Formerly PE 003D. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE   003E   1.0 or 1.5 Units
Intermediate Judo
Prerequisite KINE003D. Course Advisory: SCC minimum English and Math standards. An intermediate judo course that covers 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. Formerly PE 003E. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE   004A   1.5 or 2.0 Units
Beginning Contemporary Modern Dance
Course Advisory: SCC minimum English and Math standards. An introduction to basic contemporary modern dance techniques. This class will focus on proper contemporary modern dance alignment, terminology, center work, movement acrooss 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 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. Interval skills exams and written exams serve to measure student achievement. Formerly PE 004A. *One hour lecture, one or two hours activity.*

KINE   004B   1.5 or 2.0 Units
Beginning Tap Dance
Course Advisory: SCC minimum English and Math standards. An introductory course that includes body placement, body balance, rhythm, coordination, musicality, and a repertoire of the traditional tap (foot) techniques. This course presents lecture information on music, music analysis, understanding basic components of fitness as related to dance, nutrition and basic first aid and injury prevention. This history of tap dance as an indigenous American dance form is included. Skills exams and written exams are used to evaluate student achievement. Formerly PE 004B. *One hour lecture, one or two hours activity.*

KINE   004C   1.5 or 2.0 Units
Intermediate Tap Dance
Prerequisite: KINE 004B. Course Advisory: SCC minimum English and Math standards. This course explores 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. Interval performance exams are used to evaluate student achievement. Written exams are used to evaluate the student's knowledge of 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 PE 004C. *One hour lecture, one hour or two hours activity.*

KINE   004D   1.5 or 2.0 Units
Jazz Dance Techniques
Prerequisite: PE 004H. Course Advisory: SCC minimum English and Math standards. Designed 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. Interval skills exams and written exams serve to evaluate student achievement. Recommended for Theatre Arts majors. Formerly PE 004D. *One hour lecture, one to two hours activity.*

Kinesiology

KINE 004E   **3.0 Units**
Dance Production
Course Advisory: SCC minimum English and Math standards. 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 PE 004E. *One hour lecture, seven hours lab, one hour by arrangement.*

KINE 004F   **1.5 or 2.0 Units**
Beginning Hip-Hop Dance
Course Advisory: SCC minimum English and Math standards. Introduces students 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 PE 004F. *One hour lecture, one to two hours activity.*

KINE 004G   **2.0 Units**
Dance Choreography
Course Advisory: SCC minimum English and Math standards. A performance dance ensemble class for the experienced dance student. It is advised that the student have some training in hip-hop, ballet, jazz, ballroom, ethnic or other styles of dance experience. There is an opportunity for student choreography. This class gives an opportunity for public performance. Recommended for Dance/Theatre or related arts majors. Formerly PE 0048G. *One hour lecture, three hours activity.*

KINE 004H   **1.5 or 2.0 Units**
Beginning Jazz Dance
Course Advisory: SCC minimum English standard. Covers 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. Interval skills exams and written exams serve to evaluate student achievement. Formerly PE 004H. *One hour of lecture, one or two hours of activity.*

KINE 004J   **1.5 or 2.0 Units**
Beginning Ballroom Dance
Course Advisory: SCC minimum English and Math standards. In this course students will gain a solid foundation and knowledge of the basic skills and techniques of ballroom dance. This class will also be an introduction, 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, and Fox Trot. 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 PE 004J. *One hour lecture, one or two hours activity.*

KINE 004K   **1.5 or 2.0 Units**
Beginning Ballet
Course Advisory: SCC minimum English and Math standards. 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. Performance exams and written exams are given to evaluate student achievement. Students will be required to submit a term project on the history of Ballet. Formerly PE 004K. *One hour lecture, one or two hours activity.*

Kinesiology

KINE 004M   **1.5 or 2.0 Units**
Intermediate Ballet
Prerequisite: KINE 004K with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. The student will be exposed to second derivative 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. Skills exams and written exams are given to evaluate student achievement leading to studio recital or performance. Text required. Formerly PE 004M. *One-half hour lecture, two and one-half to three hours activity.*

KINE 004N   **1.5 or 2.0 Units**
Beginning Swing Dance
Course Advisory: SCC minimum English and Math standards. 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 allignment and posture. Formerly PE 004N. *One hour lecture, one or two hours activity.*

KINE 004P   **1.5 or 2.0 Units**
Intermediate Jazz Dance
Prerequisite: KINE 004H with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. Covers 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 effect basic dance movements. Intermediate musical analysis will include 6 count phrasing. The course focuses on sequential development of intermediate jazz dance patterns in preparation for dance composition. Interval skills exams and written exams serve to evaluate student achievement. Formerly PE 004P. *One hour lecture, one to two hours activity.*

KINE 004S   **2.0 Units**
Intermediate Swing Dance
Prerequisite: KINE 004N with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. This is an Intermediate course in swing dance. Students will gain a higher level of understanding and improved techniques, terminology, steps, lifts, patterns, rhythms, music and history of the various types of swing dances. A partner is not required. Formerly PE 004S. *One hour lecture, three hours activity.*

KINE 004T   **2.0 Units**
Intermediate Ballroom Dance
Prerequisite: KINE 004J with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. This course will cover 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 Foxtrot. 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. Beginning ballroom dance class is required; partner not required. Formerly PE 004T. *One hour lecture, three hours activity.*

KINE 005C   **1.5 or 2.0 Units**
Fitness for Life
Course Advisory: SCC minimum English and Math standards. Offers 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 the physical conditioning forms the basis for the development of a lifetime fitness plan. Fitness exams and written exams serve to evaluate student achievement. Formerly PE 005C. *One hour lecture, one and one-half to two hours activity.*

Kinesiology

KINE   005D   1.0 or 1.5 Units
Circuit Training
Course Advisory: SCC minimum English and Math standards. This is an individualized program for achieving muscle tone while increasing strength and endurance. This course employs resistive exercises, which will improve lifetime fitness and overall body fitness. Formerly PE 005D. *One-half hour lecture, one and one-half or two and one-half hour activity.*

KINE   005E   1.0 or 1.5 Units
Cardio Conditioning
Course Advisory: SCC minimum English and Math standards. Designed for students who desire a cardiovascular workout using a combination of equipment such as stationary bikes, ellipticals, steppers, treadmills, stairmills and rowing machines. Formerly PE 005E. *One-half hour lecture, one and one-half to two and one-half hours activity.*

KINE   005G   1.0 or 1.5 Units
Off Season Athletic Conditioning
Course Advisory: SCC minimum English and Math standards. This is 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's respective sport. The course will focus on learning and execution of fitness/conditioning parameters as well as pre and post-tests on sport specific abilities applicable to each student/athlete's sport or activity. Repeatable 3 times. Formerly PE 005G. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE   005J   1.0 or 1.5 Units
Beginning Body Conditioning
Course Advisory: SCC minimum English and Math standards. A general conditioning course that includes weight training, aerobic conditioning, and stretching exercises. A pre-test serves to define individual fitness goals, and two post-tests (written and practical) serve to evaluate student achievement. Formerly PE 005J. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE   005K   1.0 or 1.5 Units
Intermediate Body Conditioning
Prerequisite: KINE 005J. Course Advisory: SCC minimum English and Math standards. A general conditioning course that includes weight training, aerobic conditioning, and stretching exercises. A pre-test serves to define individual fitness goals, and two post-tests (written and practical) serve to evaluate student achievement. Post-test standards are higher than they are in the beginning-level course. Nutrition, as it relates to fitness and weight control, is included. Formerly PE 005K. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE   005M   1.0 or 1.5 Units
Beginning Weight Training
Course Advisory: SCC minimum English and Math standards. 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. Pre-tests and post-tests (written and practical) serve to evaluate student achievement. Formerly KINE 005M. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE   005N   1.0 or 1.5 Units
Intermediate Weight Training
Prerequisite: KINE 005M with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. Intermediate weight training courses for men and women that will help individuals define and concentrate on personalized goals. Special emphasis will be directed at determining students' needs and helping them write and follow an exercise program designed to meet those needs. Pre-tests, post-tests and fitness measurements will be used to assess progress. Formerly PE 005N. *One-half hour lecture, one and one-half or two and one-half hours activity.*

Kinesiology

KINE   005P   **1.0 or 1.5 Units**
Step Aerobics
Course Advisory: SCC minimum English and Math standards. 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. Fitness exams, written, exams, written assignments, and/or participation serve to measure student achievement. Formerly PE 005P. *One-half hour lecture, one and one-half or two and one-half hours* activity.

KINE   005Q   **1.0 or 1.5 Units**
Elite Fitness Training
Course Advisory: SCC minimum English and Math standards. Kokoro is "unbeatable spirit" in Japanese. This is the ultimate goal of Elite Fitness Training for the serious person who wants to the find the warrior within; it includes training the mind, body, emotions, senses and spirit. Formerly PE 005Q. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE   005R   **1.0 or 1.5 Units**
Core Conditioning Training
Course Advisory: SCC minimum English and Math standards. A fitness course focusing on core conditioning in which students in physically demanding sports, fitness activities and professions learn to balance their conditioning over the entire body. This course will help improve performance by developing utilizing the principles of power, agility, core strength, and speed. Formerly PE 005R. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE   006A   **1.0 or 1.5 Units**
Cardio Kickboxing
Course Advisory: SCC minimum English and Math standards. 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 PE 006A. *One-half hour lecture, one and one-half to two and one-half hours activity.*

KINE   006B   **1.0 or 1.5 Units**
Introduction to Qigong
Course Advisory: SCC minimum English and Math standards. A course designed to acquaint the student with the basic 64-movement patterns of Dayan Qigong (pronounced cheegong) - one of the most popular forms of Qigong taught in China today. Students will learn the names and locations of accupressure points and how to do self-massage to activate the meridian system of the body. Students will learn both 'stillness in action' through the physical movements and 'action in stillness' through sitting, standing and walking meditations. This class is available for students with all levels of abilities and can be adapted for students with mobility issues. Formerly PE 006B. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE   006C   **1.0 or 1.5 Units**
Pilates For Fitness
Course Advisory: SCC minimum English and Math standards. A fitness course that 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 PE 006C. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE   006E   **1.5 or 2.0 Units**
Fundamentals of Yoga
Course Advisory: SCC minimum English and Math standards. Development of basic yoga postures, breathing practices, stretching and relaxation techniques as method to improve flexibility, decrease stress and improve physical and mental well-being. Formerly PE 006E. *One hour lecture, two or three hours activity.*

KINE   006F   **1.5 or 2.0 Units**
Intermediate Yoga
Prerequisite: KINE 006E with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. This course will 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. Formerly PE 006F. *One hour lecture, one or two hours activity.*

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KINE 006G   **1.0 or 1.5 Units**
Tai Chi
Course Advisory: SCC minimum English and Math standards. An introduction to the discipline of Physical Education through Tai Chi exercises, including well-known short forms consisting of 24 postures. Basic exercise physiology, nutrition, fundamentals of strength development, flexibility and meditation concepts as related to Tai Chi and health and wellness are also covered. Formerly PE 006G. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE 007A   **1.0 or 1.5 Units**
Beginning Bowling
Course Advisory: SCC minimum English and Math standards. Covers the fundamental techniques of bowling, terminology, rules, scoring, etiquette, and history. Practice and class competitions are provided to enhance skill development and strategy. Written exams and skills exams serve to evaluate student achievement. Formerly PE 007A. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE 007B   **1.0 or 1.5 Units**
Beginning Road Bicycling
Course Advisory: SCC minimum English and Math standards. An introduction to basic road bicycling terminology, equipment, and riding techniques. History of bicycling is included. Interval skills examinations and written examinations serve to measure student achievement. Formerly PE 007B. *One-half hour lecture, one and one-half or three hours activity.*

KINE 007C   **1.0 or 1.5 Units**
Beginning Mountain Biking
Course Advisory: SCC minimum English and Math standards. Introduction to basic mountain biking terminology, equipment, and riding techniques. History of bicycling is included. Interval skills examinations and written examinations serve to measure student achievement. Formerly PE 007C. *One hour lecture, one or two hours activity.*

KINE 007F   **1.0 or 1.5 Units**
Beginning Archery
Course Advisory: SCC minimum English and Math standards. Covers the fundamental techniques of archery, terminology, accessories, and history of the sport. Practice and class competitions are provided to enhance skill development. Written and skills exams serve to evaluate student achievement. Formerly PE 007F. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE 008A   **1.0 or 1.5 Units**
Beginning Tennis
Course Advisory: SCC minimum English and Math standards. Lectures and demonstrations cover 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 PE 008A. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE 008B   **1.0 or 1.5 Units**
Intermediate Tennis
Prerequisite: KINE 008A with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. Lecture and demonstration cover the intermediate techniques of tennis: overhead smash, drop shot, chop volley, serves, and offensive and defensive lobs. Strategy for competitive play is emphasized. Skills exams and written exams serve to evaluate student achievement. Formerly PE 008B. *One-half hour lecture, one and one-half to two and one-half hours activity.*

KINE 008C   **1.0 or 1.5 Units**
Beginning Racquetball
Course Advisory: SCC minimum English and Math standards. Lectures and demonstrations on the fundamental techniques and skills such as grips, forehand and backhand strokes, serves, the serve return, and the kill shot. Scoring, game rules, game strategy, and court etiquette are included. Drills and class competitions are provided to enhance skill development and game strategy. Skills exams and written final exam serve to evaluate student achievement. Formerly PE 008C. *One-half hour lecture, one and one-half or two and one-half hours activity.*

Kinesiology

KINE 008E   **1.0 or 1.5 Units**
Beginning Badminton
Course Advisory: SCC minimum English and Math standards. Lecture and demonstrations on the basic skills: 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 PE 008E. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE 008F   **1.0 or 1.5 Units**
Intermediate Badminton
Prerequisite: KINE 008E. Course Advisory: SCC minimum English and Math standards. Lecture and demonstrations cover intermediate 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. Skill exams and written exams serve to evaluate student achievement. Formerly PE 008F. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE 009A   **1.0 or 1.5 Units**
Beginning Basketball
Course Advisory: SCC minimum English and Math standards. Lectures and demonstration cover the fundamental skills of basketball: shooting, passing, dribbling, rebounding, and footwork. Offensive and defensive drills are practiced in preparation for low-level competition in class. The history, rules, and terminology of the game are included. Skills exams and written exams serve to evaluate student achievement. Formerly PE 009A. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE 009B   **1.0 or 1.5 Units**
Indoor/Outdoor Soccer
Course Advisory: SCC minimum English and Math standards. Covers the fundamental techniques of soccer, terminology, rules, and history. Practice, skills drills, and class competitions are provided to enhance skill development and game strategy. A written final exam and skills exams serve to evaluate student achievement. Formerly PE 009B. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE 009C   **1.0 or 1.5 Units**
Intermediate Soccer
Prerequisite: KINE 0098B with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. Covers intermediate soccer skills. 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 PE 009C. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE 009E   **1.0 or 1.5 Units**
Intermediate Basketball
Prerequisite: KINE 009A with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. Lecture and demonstration cover second derivative skills and philosophies of basketball: court leadership, team offenses and defenses, motivation, team strategies, court decorum and sportsmanship. Skill exams and written exams serve to evaluate student achievement. Formerly PE 009E. *One half hour lecture, one and one-half or two and one-half hours activity.*

KINE 009F   **1.0 or 1.5 Units**
Beginning Baseball
Course Advisory: SCC minimum English and Math standards. Using a lecture and lab format the class covers the 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 low-level competition in class. History, rules, and terminology are included. Skills exams and written exams serve to evaluate student achievement. Formerly PE 009F. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE 009G   **1.0 or 1.5 Units**
Softball
Course Advisory: SCC minimum English and Math standards. Covers the fundamental techniques of softball, terminology, rules, and history. Practice, skill drills, and class competitions are provided to enhance skill development and game strategy. Skills exams and a written final exam serve to evaluate student achievement. Students must provide their own glove. Formerly PE 009G. *One-half hour lecture, one and one-half or two and one-half hours activity.*

Kinesiology

KINE 009H **1.0 or 1.5 Units**
Beginning Volleyball
Course Advisory: SCC minimum English and Math standards. Covers the basic skills: serve, pass, set attack, and block. Skill development is emphasized. This course presents lecture information on team play, rules, history, and basic game strategy. Physical conditioning is an integral part of the course. Skills exams and written exams serve to evaluate student achievement. Formerly PE 009H. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE 009P **1.0 or 1.5 Units**
Intermediate Volleyball
Prerequisite: KINE 009H with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. Covers the intermediate skills: 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 PE 009P. *One-half hour lab, one and one-half to two and one-half hours activity.*

KINE 020A **3.0 Units**
Introduction to Kinesiology
Course Advisory: SCC minimum English and Math standards. This course is an 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 PE 020A. *Three hours lecture.*

KINE 020D **2.0 Units**
Baseball Theory and Practice I
Course Advisory: SCC minimum English and Math standards. A comprehensive baseball course designed for the athlete and coach. The course includes the theories and applications of offensive and defensive strategies, the game plan as it relates to the statistical performance of a particular team, and the use of scouting in assessing the skills and weaknesses of the opposing coach and team. Skills exams and written exams serve to evaluate athlete achievement. Formerly PE 020D. *One hour lecture, two hours activity.*

KINE 020E **2.0 Units**
Baseball Theory and Practice II
Course Advisory: SCC minimum English and Math standards. A continuation of Kinesiology 020D. A comprehensive baseball course designed for the athlete and coach. The course includes advanced theories and applications of offensive and defensive strategies, the evaluation of the game plan as it relates to the statistical information and skill performance of a team, and the use of assembling advanced scouting reports to assess the skills and weaknesses of the opposing coach and team. Skills exams and written exams serve to evaluate the student. Formarly PE 020E. *One hour lecture, two hours activity.*

KINE 020F **2.0 Units**
Football Theory and Practice I
Course Advisory: SCC minimum English and Math standards. Comprehensive course for athletes and coaches of football in preparation for intercollegiate competition. The course focuses on the analyses and applications of the principles underlying all football techniques, the psychology involved in the development of winners, and the scientific and empirical principles of training. Skills exams and written exams serve to evaluate athlete achievement. Formerly PE 020F. *One hour lecture, two hours activity.*

KINE 020G **2.0 Units**
Football Theory and Practice II
Course Advisory: SCC minimum English and Math standards. A continuation of Kinesiology 020F. An advanced course for athletes and coaches of football in preparation for intercollegiate competition. The course focuses on the analyses and applications of the principles underlying offensive and defensive strategies and formation of game plans. Skills and written exams are used to evaluate student learning. Formerly PE 020G. *One hour lecture, two hours activity.*

Kinesiology

KINE 020H   **3.0 Units**
Care and Prevention of Athletic Injuries
Course Advisory: SCC minimum English and Math standards. An introduction to the field of Athletic Training 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. Written examinations and practical examinations serve to evaluate student achievement. Required of Physical Education majors and minors. Formerly PE 020H. *Three hours lecture.*

KINE 020J   **2.0 Units**
Softball Theory and Practice II
Course Advisory: SCC minimum English and Math standards. A continuation of Kinesiology 020P. An advanced softball course designed for the athlete and coach. The course includes advanced theories and applications of offensive and defensive strategies, evaluation of the game plan as it relates to statistical information and skill performance of a team. It also covers assembling advanced scouting reports to assess the opposition. Skill exams and written exams serve to evaluate the student. Formarly PE 020J. *One hour lecture, two hours lab*

KINE 020M   **2.0 Units**
Volleyball Theory And Practice I
Course Advisory: SCC minimum English standard. Study of the theories of offensive and defensive strategies of competitive volleyball. Athletes will study, analyze, and practice offensive and defensive skills and strategies in preparation for seasonal, intercollegiate competition. Skills exams and written exams serve to evaluate athlete achievement. Formerly PE 020M. *One hour lecture, two hours activity.*

KINE 020N   **2.0 Units**
Volleyball Theory and Practice II
Course Advisory: SCC minimum English standard. A continuation of PE 020M A study of advanced theories of offensive and defensive strategies of competitive volleyball. Students will analyze advanced offensive and defensive strategies and will develop in-depth scouting procedures. Skills exams and written exams serve to evaluate student achievement. Formerly PE 020N. *One hour lecture, two hours activity.*

KINE 020P   **2.0 Units**
Softball Theory And Practice I
Course Advisory: SCC minimum English and Math standards. Comprehensive course designed for the intercollegiate softball athlete and for the coach of fastpitch softball. The course focuses on the theories, analyses, and applications of offensive and defensive skills and strategies. Written exams and practical exams serve to evaluate athlete achievement. Formerly PE 020P. *One hour lecture, two hours activity.*

KINE 020Q   **1.5 or 2.0 Units**
Soccer Theory And Practice I
Course Advisory: SCC minimum English and Math standards. A comprehensive course designed for the intercollegiate soccer athlete and for the coach of soccer. The course focuses on the theories, analyses, and application of offensive and defensive skills and strategies. Written exams and practical exams serve to evaluate the student achievement. Formerly PE 020Q. One hour lecture, and one to two hours activity.

KINE 020R   **1.5 or 2.0 Units**
Soccer Theory And Practice II
Course Advisory: SCC minimum English and Math standards; KINE 020Q or equivalent soccer experience. Continuation of Kinesiology 020Q. A study of advanced theories of offensive and defensive strategies of competitive soccer. Students will analyze advanced offensive and defensive strategies and will develop in-depth scouting procedures. Skill exams and written exams serve to evaluate student achievement. Formerly PE 020R. *One hour lecture, one to two hours activity.*

Kinesiology

KINE   020S   **3.0 Units**
Advanced First Aid and Emergency Care
Course Advisory: SCC minimum English and Math standards. A course designed to prepare 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, cardiopulminary resusitation (CPR), and Automatic External Defibrillator (AED) for infants, children, and adults. Upon successful completion of the appropriate exam, the student will be elligible for certification in First Responder First Aid and CPR. Required of Physical Education/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 PE 020S. C-ID KIN 101. *Three hours lecture.*

KINE   020V   **3.0 Units**
Introduction to Sports Science
Course Advisory: SCC minimum English and Math standards. A course covering the basic elements of sport sciences including: kinesiology, motor learning, biomechanics, exercise physiology, sports medicine, sport psychology and training theory. Formerly PE 020V. *Three hours lecture.*

KINE   020W   **3.0 Units**
Principals of Fitness and Sports Training
Course Advisory: SCC minimum English and Math standards. A comprehensive fitness course that includes the study of the human organism and its reactions to fitness and physical activity. The course focuses on the physiological adaptations, exercise training/prescriptions, nutrition, ergogenic aids, environmental factors, and the major medical and health conditions. Written exams and measurements of activity serve to evaluate student achievement. Formerly PE 020W. *Three hours lecture.*

KINE   020X   **2.5 Units**
Basketball Theory And Analyses I
Course Advisory: SCC minimum English and Math standards. A comprehensive basketball theory course designed for coach and athlete. The course includes the theories and analyses of offensive and defensive strategies, the development of the offensive and defensive game plan as it relates to statistical data, and spontaneous adjustments in offense and defense. Written exams serve to evaluate student achievement. Formerly PE 020X. *Two hours lecture, one hour activity.*

KINE   020Y   **2.5 Units**
Basketball Theory And Analyses II
Course Advisory: SCC minimum English and Math standards. A continuation of KINE 020X. A comprehensive basketball theory course designed for coach and athlete. The course includes the advanced theories and analyses of offensive and defensive strategies and the development of the game plan using statistical data and the scouting report. Written exams and skill exams serve to evaluate student achievement. Formerly PE 020Y. *Two hours lecture, one hour activity.*

KINE   055B   **3.0 Units**
Sports Medicine —
Athletic Training Practicum Spring Sports
Course Advisory: SCC minimum English and Math standards. 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 includes, softball, baseball, mens and womens swimming and diving. Injuries specific to these sports include most upper extremity injuries. *One and one-half hours lecture, four and one-half hours lab.*

KINE   057   **3.0 Units**
Introduction to Sports Psychology
Course Advisory: SCC minimum English and Math standards. Introduction to psychological concepts, strategies and skills designed to help individuals overcome the barriers to optimal athletic performance. 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 fostering a winning environment. *Three hours lecture.*

Kinesiology

KINE 071   **0.5 or 1.5 Units**
Back Care and Injury Management
Course Advisory: SCC minimum English and Math standards. A course designed for students with interest in back care or managing a back injury. Individualized and group exercises will focus on functional motor control, balance, coordination, flexibility, developmental movement, individually developed exercises and strength and endurance for students with back injuries. There will be an emphasis on encouraging independence in personal health and teaching lifelong fitness knowledge and skills. Formerly PE 071. *One-half hour lecture, one-half or two and one-half hours activity.*

KINE 078   **0.5 or 1.5 Units**
Fit Ball Training
Course Advisory: SCC minimum English and Math standards. A fitness course that utilizes fitness ball techniques that can 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 strengthening exercises for all the major muscle groups with and without hand weights, flexibility exercises and balancing exercises. Skill exams and written exams serve to evaluate student achievement. Formerly PE 078. *One-half hour lecture, one and one-half or two and one-half hours activity.*

KINE 083   **2.0 or 2.5 Units**
Tactical Fitness
Course Advisory: KINE 005Q with a minimum grade of C; SCC minimum English and Math standards. An advanced lifelong functional fitness training and educational course designed specifically for students currently in or planning on entering the tactical/operator profession. This course will prepare or increase a student's mission/job performance and knowledge by incorporating current research and advanced training methods to increase strength, stamina, and reduce injury risks. This course will challenge those students who want to attain the pinnacle of fitness and exercise knowledge. Formerly PE 083. *One hour lecture, three hours activity.*

Athletics/Health Education

ATHL 001   **2.0 Units**
Women's Intercollegiate Volleyball (Fall)
Course Advisory: SCC minimum English and Math standards. 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. *Ten hours lab.*

ATHL 002A   **1.0 Unit**
Women's Intercollegiate Basketball (Fall)
Course Advisory: SCC minimum English and Math standards. 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. *Ten hours lab (12-week course).*

ATHL 002B   **1.0 Unit**
Women's Intercollegiate Basketball (Spring)
Course Advisory: SCC minimum English and Math standards. 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. *Ten hours lab (9-week course).*

ATHL 003   **2.0 Units**
Women's Intercollegiate Softball
Course Advisory: SCC minimum English and Math standards. 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. *Ten hours lab.*

Kinesiology

ATHL 004   **2.0 Units**
Women's Intercollegiate Soccer (Fall)
Course Advisory: SCC minimum English and Math standards. 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. *Ten hours lab.*

ATHL 010   **1.0 or 2.0 Units**
Men's and Women's Intercollegiate Swimming and Diving (Spring)
Course Advisory: SCC minimum English and Math standards. 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. *Ten hours lab.*

ATHL 015   **2.0 Units**
Men's Intercollegiate Baseball
Course Advisory: SCC minimum English and Math standards. 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. *Ten hours lab.*

ATHL 016A   **1.0 Unit**
Mens Intercollegiate Basketball (Fall)
Course Advisory: SCC minimum English and Math standards. 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. *Ten hours lab. (12-week course).*

ATHL 016B   **1.0 Unit**
Men's Intercollegiate Basketball (Spring)
Course Advisory: SCC minimum English and Math standards. 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. *Ten hours lab (9-week course).*

ATHL 017   **2.0 Units**
Men's Intercollegiate Football (Fall)
Course Advisory: SCC minimum English and Math standards. A comprehensive course designed for the student athlete covering advanced intercollegiate football skills. The course includes the theories and analyses of offensive, defensive, and kicking team strategies, acquisition and development of physical skills, and mental preparation for competition. Repeatable 3 times. *Ten hours lab.*

ATHL 020   **2.0 Units**
Men's and Women's Intercollegiate Water Polo
Course Advisory: SCC minimum English and Math standards. A comprehensive course designed for the student athlete covering advanced intercollegiate water polo skills. The course includes the theories and analyses of offensive and defensive strategies, skill acquisition, development of physical skills, and mental preparation for competition. Repeatable 3 times. *Ten hours lab.*

Liberal Arts

Education

EDUC 050 — 3.0 Units
Introduction To Education
Course Advisory: SCC minimum English standard. 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. *Three hours lecture.*

Humanities

HUMN 001 — 3.0 Units
What It Means To Be Human
Prerequisite: ENGL 001 with a minimum grade of C. Explores 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. *Three hours lecture.*

HUMN 002 — 3.0 Units
Humans As Creators: The Media of Creativity
Course Advisory: Eligibility for English 001. 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. *Three hours lecture.*

HUMN 003 — 3.0 Units
Journey Into a Multicultural Landscape
Course Advisory: SCC minimum English and Math standards. 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. *Three hours lecture.*

Management

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.

Certificate of Achievement and Associate in Science Degree
A Certificate of Achievement can be obtained by completing the 21-unit major listed below. The Associate in Science Degree can be obtained by completing a total of 60 units, including the major, the supporting courses and the general education requirements. All courses for this 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 Management Certificate of Achievement/Associate Degree 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**
BUS 005 Introduction to Business 3
BUS 092 Business Communication 3
BUS 181 Business Mathematics 3
CIS 050 Microcomputer Applications 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
    Total Units 21

Supporting Courses (for the A.S.)* . . . . **Units**
ACCT 001 Principles of Accounting - Financial. 4
OR
ACCT 002 Principles of Accounting - Managerial. 4
BUS 018 Legal Environment of Business 3
ECON 001 Principles of Economics (Macroeconomics) . . 3
OR
ECON 002 Principles of Economics (Microeconomics) . . 3

*Required for the A.S. degree
    Total Units 10

Recommended Electives
OCED 090 Occupational Work Experience

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Management."

Management

Retail Management

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.

Certificate of Achievement and Associate in Science Degree
A Certificate of Achievement in Retail Management can be obtained by completing the 31-unit major listed below. The Associate in Science Degree can be obtained by completing a total of 60 units, including the major, general education requirements, and electives. All courses for this 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 Retail Management Certificate of Achievement/Associate Degree 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**
Recommended sequence
BUS 092 Business Communication 3
BUS 181 Business Mathematics 3
CIS 050 Microcomputer Applications 3
MGMT 050 Principles of Management 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 055 Management/Leadership Skills 3
MGMT 193 Human Resource Management. 3

   Total Units **31**

Recommended Electives
BUS 182 Small Business Mathematics
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

NOTE: This program is approved by the Western Association of food chains for awarding of the industry WAFC Certificate.

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Retail Management WAFC."

Management

Small Business Management

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.

Certificate of Achievement and Associate in Science Degree
A Certificate of Achievement can be obtained by completing the 28-unit major listed below. The Associate in Science Degree can be obtained by completing a total of 60 units, including the major, general education requirements, and electives. All courses for this 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 Small Business Management Certificate of Achievement/Associate Degree 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**
Recommended sequence
MGMT 184 Small Business Management and Planning . 3
MGMT 186 Small Business Marketing 3
MGMT 188 Computers in Small Business 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
Electives selected from list of Recommended Electives . . 6
    Total Units **28**

Recommended Electives
ACCT 001 Principles of Accounting - Financial
ACCT 002 Principles of Accounting - Managerial

ACCT 180 Introduction to Accounting
BUS 060 Introduction to International Business
ECON 001 Principles of Economics (Macroeconomics)
ECON 002 Principles of Economics (Microeconomics)
MGMT 055 Management/Leadership Skills
MGMT 191 Human Relations
MKT 173 Principles of Selling
MKT 174 Retail Merchandising
OCED 090 Occupational Work Experience
OCED 091 General Work Experience
OT 054A Beginning Keyboarding A
OT 054B Beginning Keyboarding B
OT 055A Intermediate Keyboarding/Word Processing A
OT 055B Intermediate Keyboarding/Word Processing B

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Small Business Management."

Management

MGMT 050   **3.0 Units**
Principles Of Management
Course Advisory: Eligibility for English 001; SCC minimum Math standard. 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. *Three hours lecture.*

MGMT 055   **3.0 Units**
Management/Leadership Skills
Course Advisory: Eligibility for English 001. 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. *Three hours lecture.*

MGMT 191   **3.0 Units**
Human Relations
Course Advisory: SCC minimum English and Math standards. 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. *Three hours lecture.*

MGMT 193   **3.0 Units**
Human Resource Management
Course Advisory: SCC minimum English and Math standards. 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. *Three hours lecture.*

Marketing

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.

A Certificate of Achievement can be obtained by completing the 30–unit major below. The Associate in Science Degree can be obtained by completing a total of 60 units, including the major, general education requirements, and electives. All courses for this 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 Marketing Certificate of Achievement/Associate Degree 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 050 Microcomputer Applications 3
OR
CIS 001 Introduction to Computer Science. 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
    Total Units 30

Recommended Electives

ACCT 001 Principles of Accounting - Financial
BUS 060 Introduction to International Business
BUS 092 Business Communication
CIS 060 Introduction to the Internet
ECON 001 Principles of Economics (Macroeconomics)
MGMT 050 * Principles of Management
MGMT 191 * Human Relations
MKT 170 Advertising
OCED 090 Occupational Work Experience

*If not taken as part of major

This is a Gainful Employment Program. For additional information, please visit *http://www.solano.edu/gainful_employment/* and select "Small Business Management."

Marketing

MKT   171   3.0 Units
Introduction To Marketing
Course Advisory: SCC minimum English and Math standards. 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. *Three hours lecture.*

MKT   172   3.0 Units
Marketing Management And Planning
Course Advisory: SCC minimum English and Math standards. Covers 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. *Three hours lecture.*

MKT   173   3.0 Units
Principles Of Selling
Course Advisory: SCC minimum English and Math standards. 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. *Three hours lecture.*

MKT   174   3.0 Units
Retail Merchandising
Course Advisory: SCC minimum English and Math standards. 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. *Three hours lecture.*

Mathematics

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 advanced study.

Associate in Arts Degree
An Associate in Arts Degree can be obtained upon completion of 60 units, including the 20-21-unit major listed below, general education requirements, and electives. All courses for this 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 Mathematics Associate Degree will be able to:
    1. Solve problems by applying appropriate math concepts and ideas; and
    2. Effectively communicate the solution(s) of these problems.

REQUIRED COURSES . . . . **Units**
MATH 020 Analytic Geometry and Calculus I 5
MATH 021 Analytic Geometry and Calculus II. 5
MATH 022 Analytic Geometry and Calculus III 4
MATH 023 Differential Equations 4
OR
MATH 011 Elementary Statistics 4
OR
MATH 012 Mathematical Ideas 3
MATH 040 Introduction to Linear Algebra 3
    Total Units . . . . **20 - 21**

Mathematics

Associate in Science in Mathematics for Transfer

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.

Associate in Science in Mathematics for Transfer
The Associate in Science for Transfer is especially appropriate for students who plan to complete a bachelor's degree in Mathematics 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 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 degree, 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 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 Science in Mathematics for Transfer degree will be able to:
1. Solve a problem applying appropriate math concepts and ideas.
2. Effectively communicate solution(s).

REQUIRED COURSES . . . . **Units**
MATH 020 Analytic Geometry and Calculus I 5
MATH 021 Analytic Geometry and Calculus II 5
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
   Total Units 21

Required Major
CSU General Education or IGETC Pattern Units . 37 - 39
CSU Transferable Electives
   (as needed to reach 60 transferable units)* . . . . . . 3 - 5
   Total Degree Units 60

* *3 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.*

Mathematics

NOTE: Specific graphing calculators are required in some math courses.

MATH   002   **3.0 Units**
Algebra For Calculus (College Algebra)
Prerequisite: MATH 104 with a minimum grade of C. Course Advisory: SCC minimum English standard. Designed to develop the skills and introduce 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. Lab hours may be scheduled or TBA depending on section. Students are expected to complete both the lecture and lab portions of the course. *Three hours lecture, one hour lab.*

MATH   004   **5.0 Units**
Pre-Calculus Mathematics
Prerequisite: A minimum grade of C in both in MATH 103 and 104. Course Advisory: SCC minimum English standard. A comprehensive study of the mathematics that is prerequisite to the calculus sequence. Topics included are the elementary functions and their graphs, methods of solving equations and systems of equations, applied problems that are relevant to calculus, analytic geometry and mathematical induction. 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. NOTE: Not open to students who have completed MATH 051 or MATH 002 with minimum grade of C. *Five hours lecture, one hour lab.*

MATH   011   **4.0 Units**
Elementary Statistics
Prerequisite: MATH 104 with a minimum grade of C. Course Advisory: Eligibility for English 001. An introduction to elementary probability and statistics including the basic rules of probability, probability distributions, descriptive statistics, hypothesis testing, estimation, correlation and regression analysis. Lab hours may be scheduled or TBA, depending upon the section. Students are expected to complete both the lecture and lab portions of the course. *Four hours lecture, one hour lab.*

MATH   012   **3.0 Units**
Mathematical Ideas
Prerequisite: MATH 104 with a minimum grade of C. Course Advisory: SCC minimum English standard. 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. *Three hours lecture.*

MATH   020   **5.0 Units**
Analytic Geometry And Calculus I
Prerequisite: A minimum grade of C in both MATH 002 and MATH 051, or MATH 004 with a minimum grade of C. Course Advisory: SCC minimum English standard. MATH 020, the 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. 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. *Five hours lecture, one hour lab.*

MATH   021   **5.0 Units**
Analytic Geometry And Calculus II
Prerequisite: MATH 020 with a minimum grade of C. Course Advisory: SCC minimum English standard. Math 021, the 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. 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. C-ID MATH 220. *Five hours lecture, one hour lab.*

Mathematics

MATH 022   **4.0 Units**
Analytic Geometry And Calculus III
Prerequisite: MATH 021 with a minimum grade of C.
Course Advisory: SCC minimum English standard. Math
022, the 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. *Four hours lecture.*

MATH 023   **4.0 Units**
Differential Equations
Prerequisite: MATH 021 with a minimum grade of C.
Course Advisory: SCC minimum English standard. This
course covers ordinary differential equations
emphasizing linear differential equations and systems
with applications to engineering, physics, and
chemistry. Included are La Place transforms and
power series methods of solution. C-ID MATH 240.
Four hours lecture.

MATH 030   **3.0 Units**
Analytic Geometry And Calculus
*Prerequisite: Math 104 with a minimum grade of C. Course
Advisory: SCC minimum English standard.* MATH 030
and 031 is a two-semester sequence in analytic
geometry and calculus for students majoring in
business, biological, and social sciences. This is not the
calculus course for students majoring in mathematics,
engineering or the physical sciences. MATH 030
covers differential and integral calculus of a single
variable. Topics include limits, continuity, derivatives
of algebraic and transcendental functions and their
applications, integrals and their applications, and
plane analytic geometry. Lab hours may be scheduled
as TBA depending upon the section. Students are
expected to complete both the lecture and lab portions
of the course. NOTE: Not open to students who have
completed MATH 020 with a minimum grade of C.
Three hours lecture, one hour lab.

MATH 031   **3.0 Units**
Analytic Geometry And Calculus
Prerequisite: MATH 030 with a minimum grade of C.
Course Advisory: SCC minimum English standard. 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. Lab hours may be
scheduled or TBA depending on the section. Students
are expected to complete both the lecture and lab
portion of the course. *Three hours lecture, one hour lab.*

MATH 040   **3.0 Units**
Introduction To Linear Algebra
Prerequisite: MATH 021 with a minimum grade of C.
Course Advisory: SCC minimum English standard. NOTE:
A relatively high degree of mathematical maturity is
required for this course. An 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. C-ID
MATH 250. *Three hours lecture.*

MATH 051   **3.0 Units**
Trigonometry
*Prerequisite: A minimum grade of C in both MATH 103
and 104. Course Advisory: SCC minimum English
standard.* 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. Lab hours may be scheduled or TBA
depending on the section. Students are expected to
complete both the lecture and the lab portions of the
course. *Three hours lecture, one hour lab.*

MATH 098
Special Topics
These courses, numbered 048, 098, 148 or 198
depending upon their transferability, are courses
of contemporary interest centered on changing
knowledge and important issues in the field.
Announcements of Special Topics courses appear
in the Schedule of Classes.

Mathematics

MATH 103   **3.0 Units**
Plane Geometry
Prerequisite: A minimum grade of C in either MATH 330 or MATH 330B. Course Advisory: SCC minimum English standard. 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. 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. *Three hours lecture, one hour lab.*

MATH 104   **5.0 Units**
Intermediate Algebra
Prerequisite: A minimum grade of C in either MATH 330 or MATH 330B. Course Advisory: SCC minimum English standard. 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. Lab hours may be scheduled or TBA depending on section. Students are expected to complete both the lecture and lab portions of the course. *Five hours lecture, one hour lab.*

MATH 112   **4.0 Units**
Algebraic Reasoning
Prerequisite: A minimum grade of C in either MATH 330 or MATH 330B. Course Advisory: SCC minimum English standard. In this course students will develop their ability to solve problems with algebraic reasoning. Topics include ratios, rates, proportional reasoning using fractions, decimals, and percents, evaluating expressions, functions, use of linear and exponential functions to model bivariate data, use of logarithms and logarithmic scales, financial math, probability, and graphical descriptive statistics. This course is designed for students who DO NOT plan to major in math, science, computers, engineering, or business. Students who plan to transfer will need to take MATH 104 in preparation for transfer math courses. Lab hours may be scheduled or TBA depending on the section. Students are expected to complete both the lecture and the lab portions of the course. *Four hours lecture, one hour lab.*

MATH 114   **3.0 Units**
Math For Health Occupations
Prerequisite: A minimum grade of C in either MATH 330 or MATH 330B. Course Advisory: SCC minimum English standard. This course is designed for A.S/A.A health occupation students to prepare them for math topics encountered in their chemistry, biology, and health occupation courses. Topics include metric system, dimensional analysis, counting techniques, linear models, exponential models, and common logarithms. *Three hours lecture.*

MATH 160   **0.5 Unit**
Math for Nursing School Students
Prerequisite: CONDITION OF ENROLLMENT: Current acceptance or on the waiting list of an RN Program. This course 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. This course is especially designed for students that have had an extended time period between finishing their pre-nursing requirements and entering nursing school. This is a Pass/No Pass only course. *Two hours lecture. (4-week course)*

MATH 305   **0.5 Unit**
Prepare for Math Success
This course will help new math students interpret their assessment test scores and evaluate their current level of mathematical knowledge. Throughout the course, students will review topics from math courses previously complete, and improve math study skills. *Eight hours lecture (1 week course).*

MATH 310   **3.0 Units**
Arithmetic
Course Advisory: SCC minimum English standard. 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. NOTE: Not open for credit to students who have completed MATH 304. *Three hours lecture.*

Mathematics

MATH 320   **4.0 Units**
Pre-Algebra
Prerequisite: MATH 310 with a minimum grade of C, or 3 units of credit in MATH 304, or 3 units of BUS 181 with a minimum grade of C. Course Advisory: SCC minimum English standard. A course in pre-algebra 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. 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. *Four hours lecture, one hour lab.*

MATH 330   **5.0 Units**
Elementary Algebra
Prerequisite: MATH 320 with a minimum grade of C. Course Advisory: SCC minimum English standard. 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. Lab hours may be scheduled or TBA depending on section. Students are expected to complete both the lecture and lab portions of the course. Formerly MATH 102. *Five hours lecture, one hour lab.*

MATH 330A   **3.0 Units**
Elementary Algebra, Part I
Prerequisite: MATH 320 with a minimum grade of C. Course Advisory: SCC minimum English standard. 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. Lab hours may be scheduled or TBA depending on the section. Students are expected to complete both the lecture and the lab portions of the course. Formerly MATH 107. *Three hours lecture, one hour lab.*

MATH 330B   **3.0 Units**
Elementary Algebra, Part II
Prerequisite: MATH 330A with a minimum grade of C. Course Advisory: SCC minimum English standard. 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. 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. Formerly MATH 108. *Three hours lecture, one hour lab.*

Music

Music-Instrumental

Program Description
Students may select from three music programs—Instrumental, Theory-Composition, or Vocal. Music majors are urged to take class lessons or private instruction in their specialization each semester.

Associate in Arts Degree
The Associate in Arts Degree can be obtained by completing a total of 60 units, including the courses in the major for Instrumental, or Theory-Composition, or Vocal, the general education requirements, and elective courses. All courses for this major must be completed with 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 Music – Instrumental Associate Degree will be able to:
1. Learn and rehearse a piece utilizing various musical techniques.
2. Analyze/compose a musical exercise using a variety of technical skills.
3. Critically evaluate a musical work.

REQUIRED COURSES. . . . . Units
MUSC 003 Advanced Theory 4
MUSC 004 Advanced Theory 4
MUSC 010 Concert Band. 2
OR
MUSC 021 Chorus 2
MUSC 041A Music Majors Piano 1.5
MUSC 041B Music Majors Piano. 1.5
Select One course from Selection One. . . . . 1 - 1.5
Select seven units from Selection Two. 7
    Total Units . . . . 21 - 21.5

Selection One (Select one course) . . . . Units
MUSC 030 Intermediate Piano Part II 1.5
MUSC 032 Class Lessons in Brass. 1.5
MUSC 033 Class Lessons in Strings. 1
MUSC 034 Class Lessons in Percussion 2
MUSC 039 Class Lessons in Intermediate Guitar 1.5

Selection Two (Select 7 units) . . . . Units
MUSC 008 Music Appreciation 3
MUSC 010 Concert Band. 2
MUSC 013 Multicultural Music in America 3
MUSC 014 Jazz Ensemble 2
MUSC 016 Symphony Orchestra . . . . 0.5 - 1
MUSC 017 Chamber Orchestra 2
MUSC 018 Beginning Steel Drum Band 2
MUSC 019 Instrumental Ensemble 2
MUSC 023 Handbell Ensemble 2
MUSC 042A Jazz and Pop Piano. 1.5
OR
MUSC 042B Jazz and Pop Piano 1.5
MUSC 055 Introduction to Jazz Improvisation 3
MUSC 056 Jazz Improvisational Ensemble 3

*MUSC 010 required first semester of enrollment

Music

Music-Theory-Composition

Program Description
Students may select from three music programs—Instrumental, Theory-Composition, or Vocal. Music majors are urged to take class lessons or private instruction in their specialization each semester.

Associate in Arts Degree
The Associate in Arts Degree can be obtained by completing a total of 60 units, including the courses in the major for Instrumental, or Theory-Composition, or Vocal, the general education requirements, and elective courses. All courses for this major must be completed with 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 Music - Theory – Composition Associate Degree will be able to:
1. Learn and rehearse a piece utilizing various musical techniques.
2. Analyze/compose a musical exercise using a variety of technical skills.
3. Critically evaluate a musical work
.

REQUIRED COURSES. . . . . Units
MUSC 003 Advanced Theory 4
MUSC 004 Advanced Theory 4
MUSC 010 Concert Band 2
OR
MUSC 021 Chorus 2
MUSC 041A Music Majors Piano 1.5
MUSC 041B Music Majors Piano. 1.5
Select one course from Selection One . . . . 1 - 1.5
Select seven units from Selection Two. 7
   Total Units . . . . **21 - 21.5**

Selection One (Select One Course) . . . . **Units**
MUSC 030 Intermediate Piano Part II 1.5

Selection Two (Select 7 units) . . . . **Units**
MUSC 006 Composition, Arranging, Songwriting 3
MUSC 008 Music Appreciation 3
MUSC 013 Multicultural Music in America 3
MUSC 052 Sound Recording 2
MUSC 053 Advanced Sound Recording 2
MUSC 055 Introduction to Jazz Improvisation 3
MUSC 056 Jazz Improvisational Ensemble 3
MUSC 060 Computer Assisted Music Lab . . . . 1 - 3
MUSC 061 MIDI and Computer Music
       Sequencing and Scoring. 2

*MUSC 010 is required the first semester of enrollment

Music

Music—Vocal

Program Description
Students may select from three music programs—Instrumental, Theory- Composition, or Vocal. Music majors are urged to take class lessons or private instruction in their specialization each semester.

Associate in Arts Degree
The Associate in Arts Degree can be obtained by completing a total of 60 units,
including the courses in the major for Instrumental, or Theory-Composition, or Vocal, the general education requirements, and elective courses. All courses for this major must be completed with 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 Music - Vocal Associate Degree will be able to:
    1. Learn and rehearse a piece utilizing various musical techniques.
    2. Analyze/compose a musical exercise using a variety of technical skills.
    3. Critically evaluate a musical work.

REQUIRED COURSES . . . . Units
MUSC 003 Advanced Theory 4
MUSC 004 Advanced Theory 4
MUSC 010 Concert Band 2
OR
MUSC 021 Chorus 2
MUSC 041A Music Majors Piano 1.5
MUSC 041B Music Majors Piano. 1.5
Select One course from Selection One 1.5
Select seven units from Selection Two. 7
    Total Units **21.5**

Selection One (Select one course) . . . . Units
MUSC 035A Beginning Voice I 1.5
OR
MUSC 035B Beginning Voice II 1.5
MUSC 036A Intermediate Voice I 1.5
OR
MUSC 036B Intermediate Voice II. 1.5

Selection Two (Select 7 units) . . . . Units
MUSC 008 Music Appreciation 3
MUSC 013 Multicultural Music in America 3
MUSC 020 Choir 2
MUSC 024 Master Works Chorale 2
MUSC 025 Chamber Choir 2
MUSC 026 Vocal Jazz Ensemble. 2
MUSC 051 Jazz and Popular Solo Voice. 1.5

*MUSC 010 is required the first semester of enrollment

Music

MUSC 001   **4.0 Units**
Beginning Theory I
Course Advisory: MUSC 027 or knowledge of musical notation; SCC minimum English and Math standards. This course is 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 creative assignments are included to provide experience in the application of materials learned in class. It includes analysis and composition and is required for music majors. C-ID MUS 120. *Four hours lecture.*

MUSC 002   **4.0 Units**
Beginning Theory II
Prerequisite: MUSC 001 with a minimum grade of C. Course Advisory: MUSC 028; SCC minimum English and Math standards. This course 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. C-ID MUS 130. *Four hours lecture.*

MUSC 003   **4.0 Units**
Advanced Theory I
Prerequisite: MUSC 002 with a minimum grade of C. This course 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. C-ID MUS 140. *Four hours lecture.*

MUSC 004   **4.0 Units**
Advanced Theory II
Prerequisite: MUSC 003 with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. This course is a continuation of MUSC 003. 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. This course is required for music majors. C-ID MUS 150. *Four hours lecture.*

MUSC 005   **3.0 Units**
Music Fundamentals
Course Advisory: SCC minimum English and Math standards. This course introduces t1
he 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. C-ID MUS 110. *Three hours lecture.*

MUSC 007   **3.0 Units**
Jazz and Popular Music in America: Ragtime to Rock
Course Advisory: SCC minimum English standard. A survey of jazz and popular music in America, using an historical approach. Includes listening to and analyzing examples of jazz and popular music in relation to the social, technical and historical trends. *Three hours lecture.*

MUSC 008   **3.0 Units**
Music Appreciation
Course Advisory: SCC minimum English standard. This course is 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. This course requires no previous musical study. *Three hours lecture.*

Music

MUSC 009   **2.0 Units**
Wind Ensemble
Course Advisory: SCC minimum English standard; Limitation on Enrollment: Ability to play a wind ensemble instrument. 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. This course may be taken four times for credit. Repeatable 3 times. C-ID MUS 180. *One hour lecture, two hours activity, one hour by arrangement.*

MUSC 010   **2.0 Units**
Concert Band
Course Advisory: SCC minimum English standard; Limitation on Enrollment: Ability to play a concert band instrument. 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. This course may be taken four times for credit. Repeatable 3 times. C-ID MUS 180. *One hour lecture, two hours activity, one hour by arrangement.*

MUSC 011   **2.0 Units**
Symphonic Band
Course Advisory: SCC minimum English standard; play a band instrument. 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. *One hour lecture, two hours activity, one hour by arrangement.*

MUSC 013   **3.0 Units**
Multicultural Music in America
Course Advisory: SCC minimum English standard. A survey of multicultural music in America, including listening to and analyzing examples of multicultural music in relations 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. *Three hours lecture.*

MUSC 014   **2.0 Units**
Jazz Ensemble
Course Advisory: SCC minimum English standard; Limitation on Enrollment: Ability to play at least one instrument commonly used in jazz ensemble. 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. This course may be taken four times for credit. Repeatable 3 times. C-ID MUS 180. *One hour lecture, two hours activity, one hour by arrangement.*

MUSC 015   **2.0 Units**
Stage Band
Course Advisory: SCC minimum English standard; Limitation on Enrollment: 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. An instrumental ensemble class analyzing and performing stage band music. This class requires public performance. Repeatable 3 times. C-ID MUS 180. *One hour lecture, two hours activity, one hour by arrangement.*

MUSC 016   **1.0 Unit**
Symphony Orchestra
Course Advisory: SCC minimum English standard; Limitation on Enrollment: Ability to play an orchestral instrument. 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. C-ID MUS 180. *One half-hour lecture, one hour activity, one half-hour by arrangement.*

MUSC 017   **2.0 Units**
Chamber Orchestra
Course Advisory: SCC minimum English standard; Limitation on Enrollment: 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. 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. C-ID MUS 180. *One hour lecture, two hours activity, one hour by arrangement.*

Music

MUSC 018   **2.0 Units**
Beginning Steel Drum Band
Course Advisory: SCC minimum English and Math standards. 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. *One hour lecture, two hours activity, one hour by arrangement.*

MUSC 019   **2.0 Units**
Instrumental Ensemble
Course Advisory: Ability to read music and play an instrument. 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. *Two hours lecture, one hour activity.*

MUSC 020   **2.0 Units**
Choir
Course Advisory: SCC minimum English standard. Limitation on Enrollment: Ability to sing in a choir. Students must demonstrate an adequate level or proficiency to participate and perform with the choir. 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. Note: This course may be repeated three times for a total of four enrollments since skills are enhanced by supervised repetition and practice. Attendance at public performances required. Field trips may be required. Students will be involved in public performances. Repeatable 3 times. C-ID MUS 180. *One hour lecture, two hours activity, one hour by arrangement.*

MUSC 021   **2.0 Units**
Chorus
Course Advisory: SCC minimum English standard. Limitation on Enrollment: Ability to sing in a chorus. Students must demonstrate an adequate level of proficiency to participate and perform with the chorus. 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. Note: This course may be repeated three times for a total of four enrollments since skills are enhanced by supervised repetition and practice. Repeatable 3 times. *One hour lecture, two hours activity, one hour by arrangement.*

MUSC 023   **2.0 Units**
Handbell Ensemble
Course Advisory: SCC minimum English and Math standards. 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. *One hour lecture, two hours activity, one hour by arrangement.*

MUSC 024   **2.0 Units**
Master Works Chorale
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. *Course Advisory: SCC minimum English standard.* 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. This course may be repeated three times for a total of four enrollments. Repeatable 3 times. C-ID MUS 180. *One hour lecture, two hours activity, one hour by arrangement.*

Music

MUSC 025   **2.0 Units**
Chamber Choir
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 Chamber Choir. Audition required. *Course Advisory: SCC minimum English standard.* 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. Repeatable 3 times. C-ID MUS 180. *One hour lecture, two hours lab, one hour by arrangement.*

MUSC 026   **2.0 Units**
Vocal Jazz Ensemble
Course Advisory: SCC minimum English standard. Limitation on Enrollment: 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 jzaa ensemble idiom. 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. *One hour lecture, two hours lab, one hour by arrangement.*

MUSC 027   **1.5 Units**
Elementary Piano Part I
Course Advisory: SCC minimum English. 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. *One hour lecture, one hour activity.*

MUSC 028   **1.5 Units**
Elementary Piano Part II
Prerequisite: MUSC 027. Course Advisory: SCC minimum English standards. A continuation of MUSC 027, this course expands the elementary piano techniques by exploring a progressive series of pieces and exercises which develop the reading skills and other concepts used in performance practice. Stresses use of all major and minor scales, arpeggios in exercise form, sight reading, chromatic fingering, and performance. *One hour lecture, one hour activity.*

MUSC 029   **1.5 Units**
Intermediate Piano Part I
Prerequisite: MUSC 028. *Course Advisory: SCC minimum English standards.* Presents the intermediate level of piano technique and literature. Emphasis is on interpretation, fingering, phrasing, technical studies and exercises including performance. Sight reading and continued development through the mastery of progressive pieces enables the pianist to reach a greater overall skill level and confidence during performance. *One hour lecture, one hour activity.*

MUSC 030   **1.5 Units**
Intermediate Piano Part II
Prerequisite: MUSC 029. Course Advisory: SCC minimum English standards. 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, 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. *One hour lecture, one hour activity.*

MUSC 031   **1.5 Units**
Class Lessons in Woodwinds
Course Advisory: SCC minimum English standard. Class instruction in woodwind instruments. Music majors are required to take one unit of instruction in their major instrument for graduation. Four units are recommended for transfer majors. This class requires outside practice. *One hour lecture, one hour activity.*

Music

MUSC   032   1.5 Units
Class Lessons in Brass
Class instruction in brass instruments. Music majors are required to take one unit of instruction in their major instrument for graduation. Four units are recommended for transfer majors. This class requires outside practice. *One hour lecture, one hour activity.*

MUSC   033   1.0 Unit
Class Lessons in Strings
Class instruction in strings. Transfer students are required to study four semesters in their major instrument. *One hour lecture, one hour activity.*

MUSC   034   2.0 Units
Class Lessons in Percussion
Class instruction in percussion instruments. Music majors are required to take one unit of instruction in their major instrument. Transfer majors are required to study four semesters in their major instrument. This class requires outside practice. *One hour lecture, two hours activity.*

MUSC   035A   1.5 Units
Beginning Voice I
Course Advisory: SCC minimum English standard. 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. Transfer voice majors should study voice each semester. *One hour lecture, one hour activity.*

MUSC   035B   1.5 Units
Beginning Voice II
Prerequisite: MUSC 035A or equivalent skills. Course Advisory: SCC minimum English standard. 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. *One hour lecture, one hour activity.*

MUSC   036A   1.5 Units
Intermediate Voice I
Prerequisite: MUSC 35B or evidence of equivalent skills. *Course Advisory: SCC minimum English standard.* A continuation of MUSC 35B 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. *One hour lecture, one hour activity.*

MUSC   036B   1.5 Units
Intermediate Voice II
Prerequisite: MUSC 36A or equivalent skills. A continuation of MUSC 36A 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. *One hour lecture, one hour activity.*

MUSC   038   1.5 Units
Class Lessons in Beginning Guitar
Presents the principles and techniques of fundamental guitar performance. The course stresses first position techniques, notereading, 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. *One hour lecture, two hours activity.*

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. 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. *One hour lecture, two hours activity.*

Music

MUSC 040A   **0.5 Unit**
Applied Music I

Corequisite: Student must be concurrently enrolled in a large performance ensemble (MUSC 009, 010, 011, 014, 015, 016, 017, 020, 021, 024 or 025) 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. 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. Audition required. Student must meet the performance standards of an entering first semester college traditional music major as determined by an entrance audition. *One hour lab, one half-hour by arrangement.*

MUSC 040B   **0.5 Unit**
Applied Music II

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 with a mininmum grade of C. Audition required: Students must meet the performance standards of an entering second-semester college traditional music major as determined by an entrance audition. 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. Audition required. Student must meet the performance standards of an entering second semester college traditional music major as determined by an entrance audition. *One hour lab, one-half hour by arrangement.*

MUSC 040C   **0.5 Unit**
Applied Music III

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 with a minimum grade of C. Audition required: Student must meet the performance standards of an entering third-semester college traditional music major as determined by an entrance audition. 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. *One hour lab, one-half hour by arrangement.*

MUSC 040D   **0.5 Unit**
Applied Music IV

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 with a grade of C or better. Audition required: Student must meet the performance standards of an entering fourth-semester college traditional music major as determined by an entrance audition. 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. *One hour lab, one-half hour by arrangement.*

Music

MUSC 041A   1.5 Units
Music Majors Piano
Course Advisory: Note reading and SCC minimum English and Math standards. Instruction, practice and application of the techniques of piano performance. Emphasis will be placed on a variety of keyboard skills including harmonic progressions, scales, fingerings, drills and exercises, sight reading, and keyboard ear-training. 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. *One hour lecture, one hour activity.*

MUSC 041B   1.5 Units
Music Majors Piano
Prerequisite: MUSC 41A. Course Advisory: SCC minimum English standard. 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 plus other forms, 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 and the use of the piano as a teaching tool. *One hour lecture, one hour activity.*

MUSC 042A   1.5 Units
Jazz and Pop Piano
Prerequisite: MUSC 027, 028, or equivalent as determined by instructor. Instruction, practice, performance, and application of the techniques of Jazz and Pop piano performance. Emphasis will be placed on establishing the foundations for an improvised approach as well as a review of available literature. The course will focus on the concepts of jazz and popular styles involving the realization of lead sheets, chord voicing, applied scale theory, rhythmic structure, arrangement techniques, improvisation, and accuracy in the development of all styles considered. *One hour lecture, one hour activity.*

MUSC 042B   1.5 Units
Jazz and Pop Piano
Prerequisite: MUSC 027, 028, or equivalent as determined by instructor. Course Advisory: MUSC 042A. Instruction, practice, performance, and application of the techniques and principles of intermediate jazz and popular piano styles and skills. Emphasis will be directed to continuing the presentation made in 042A. Focus will be centered around arranging, improvisations, voicings, dialogue, hand formats, performance of literature, written projects and a further introduction to styles. The realization of lead sheets, sight reading, ear training, transcriptions of solos, fingerings, scale theory, exercises, and performance strategies will all be discussed. *One hour lecture, one hour activity.*

MUSC 049   1.0 to 3.0 Units
Music Honors
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. Course Advisory: SCC minimum English standard. An independent study course in a selected musical area for sophomore students. The student works by arrangement with the instructor on an 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. *Three to nine hours by arrangement.*

MUSC 051   1.5 Units
Jazz and Popular Solo Voice
Course Advisory: SCC minimum English standard; MUSC 035A or other solo voice experience. 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 class requires public performance and/or field trips. *One hour lecture, one hour activity.*

Music

MUSC   052   **2.0 Units**
Sound Recording
Course Advisory: SCC minimum English standard.
Designed for musical performers and students
interested in recording specifically. Development of
recorded performances in the studio environment.
Emphasis on acoustics, vocal and instrumental
recording requirements, control board management,
microphone techniques, organization and supervision
of the recording session, mixing and mixdown.
Particular attention is given to the hands-on
experience in recording engineering and the overall
recording process, including production, musical
arrangement, mixdown, and studio demeanor. One
hour lecture, three hours lab.

MUSC   053   **2.0 Units**
Advanced Sound Recording
*Prerequisite: MUSC 052. Course Advisory: SCC minimum
English and Math standards.* Advanced recording
techniques with particular attention given to hands-on
techniques. *One hour lecture, three hours lab.*

MUSC   055   **3.0 Units**
Introduction to Jazz Improvisation
*Course Advisory: SCC minimum English standard and
knowledge of music fundamentals and basic instrumental
skills.* 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. *Two hours lecture, one hour activity, one
hour by arrangement.*

MUSC   056   **3.0 Units**
Jazz Improvisation Ensemble
Course Advisory: MUSC 055. 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 from performance in
this ensemble. Repeatable 3 times. *Two hours lecture,
one hour activity, one hour by arrangement.*

MUSC   060   **1.0 to 3.0 Units**
Computer Assisted Music Lab
Corequisite: MUSC 052, 061, 062, 063, or 066A - G.
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. *Three to
twelve hours lab.*

MUSC   061   **2.0 Units**
**Midi-Computer Music Sequencing
And Scoring**
*Course Advisory: SCC minimum English and Math
standards; MUSC 027.* 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 Macintosh
computer, practical use of sequencing and scoring
software, and an understanding of Midi terminology.
One hour lecture, three hours lab.

MUSC   062   **1.5 Units**
Introduction to Pro Tools
*Course Advisory: Minimum Standards: SCC minimum
English Standard. MUSC 052 with a minimum grade of C.*
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. This course is the first
in a series of four courses leading to certification as a
Pro Tools Operator. *One-half hour lecture, three hours lab.*

Music

MUSC 063   1.5 Units
Pro Tool Production
Course Advisory: SCC minimum English standard. Prerequisite: MUSC062 with a minimum grade of C. This course provides a more detailed look at the Pro Tools system above and beyond the knowledge gained in MUSC 162 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. *One half hour lecutre, three hours lab.*

MUSC 066A   1.5 Units
Advanced Sound Recording - Signal Processing
Course Advisory: Minimum Standards: SCC minimum English Standard. Prerequisite: MUSC 052 with a minimum grade of C. 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. *One half hour lecutre, three hours lab.*

MUSC 066B   1.5 Units
Advanced Sound Recording- Microphone Technique
Course Advisory: SCC minimum English standard. Prerequisite: MUSC052 with a minimum grade of C. 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. *One half hour lecture, three hours lab.*

MUSC 066C   1.5 Units
Advanced Sound Recording - Mixing and Mastering
Course Advisory: SCC minimum English standard. Prerequisite: MUSC052 with a minimum grade of C. 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. *One half hour lecture, three hours lab.*

MUSC 066D   1.5 Units
Advanced Sound Recording - Analog Recording
Course Advisory: SCC minimum English Standard with a minimum grade of C. Prerequisite: MUSC052 with a minimum grade of C. Continues, building upon MUSC 052 skills, focusing on recording music with analog equipment. This course is designed for students particularly interested in learning to record without computers. *One half hour lecutre, three hours lab.*

MUSC 066E   1.5 Units
Advanced Sound Recording - Home Studio Recording
Course Advisory: SCC minimum English standard with a minimum grade of C. Prerequisite: MUSC052 with a minimum grade of C. 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. *One half hour lecture, three hours lab.*

MUSC 066F   1.5 Units
Advanced Sound Recording - Studio Design and Equpment
Prerequisite: MUSC 052 with a minimum grade of C. Course Advisory: SCC minimum English standard. This course is one in a series of Advanced Sound Recording electives and continues, building upon MUSC 052 skills, focusing on learning how to physically design and equip any recording studio. This course is designed for students particularly interested in designing, building and equipping a recording studio. Off-campus field trip may be required. *One-half hour lecture, three hours lab.*

Music

MUSC 066G   **1.5 Units**
Sound Recording Project
Prerequisite: MUSC 052 with a minimum grade of C.
Course Advisory: SCC minimum English standard. This course is one in a series of Advanced Sound Recording electives and continues building upon MUSC 052 skills, focusing on practical application of recording skills. This course is designed for students particularly interested in applying recording skills in real-world situations. Required attendance at up to three recording sessions which take place outside of normal classroom hours. *One-half hour lecture, three hours lab.*

MUSC 071   **3.0 Units**
Business of Music I
Course Advisory: Eligibility for English 001. 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. *Three hours lecture.*

MUSC 072   **3.0 Units**
Business of Music II
Course Advisory: Eligibility for English 001. 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. *Three hours lecture.*

MUSC 073   **3.0 Units**
Artist Management
Course Advisory: Eligibility for English 001. 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 artist's tour. *Three hours lecture.*

MUSC 074   **3.0 Units**
Music Promotion
Course Advisory: Eligibility for English 001. This course covers 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. *Three hours lecture.*

MUSC 162   **1.5 Units**
Introduction to Pro Tools
Course Advisory: SCC minimum English standard; MATH 002; and MUSC 152. 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. This course is the first in a series of four courses leading to certification as a Pro Tools Operator. In order to take the course online, students will be required to have access to recording software (Pro-Tools) and hardware. *One-half hour lecture, three hours lab.*

Nursing

Nursing, Registered

Program Description
The Registered Nursing Program at Solano Community College is a 2-year Associate Degree Program fully accredited by the State 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 take the National Council Licensing Examination (NCLEX) 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.

Associate in Science Degree
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 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 Nursing, Registered Associate Degree will be able to:
1. Qualify for state licensure as a registered nurse by achieving a passing score on the National Council Licensure Examination for registered nurses (NCLEX-RN).
2. Synthesize principles of the nursing process and critical thinking to assist individuals, families and communities to achieve positive adaptation to change in health or a peaceful death.
3. Integrate evidenced based concepts of nursing practice across the health care continuum to ensure quality patient centered care.

Program Requirements and Courses
All courses taken toward the Registered Nursing Degree must be completed with a letter grade of C or better.

Students are encouraged to attend a Registered Nursing Information Workshop prior to seeing a counselor individually. These workshops provide a basic understanding of the nursing program and the requirements for application. After attending the Nursing Information Workshop students planning to major in Nursing should make an appointment with a counselor for assistance in developing an education plan.

Admission Procedures
Prerequisites
All courses taken toward the Registered Nursing Degree must be completed with a letter grade of C or better. To be eligible to apply to the Registered Nursing Program, students must have completed the following four prerequisites.
Please note that these courses may also have prerequisites:
  • ENGL 001 College Composition (3 units)
  • BIO 004 Human Anatomy (5 units)
  • BIO 005 Introductory Physiology (5 units)
  • BIO 014 Principles of Microbiology (4 units)
NOTE: No online Anatomy, Physiology, or Microbiology courses will be accepted.
You must achieve a composite score of 73 or above to qualify for the waiting list. Composite score is determined by a combination of: (a) overall college GPA, (b) English GPA, (c) core Biology (Anatomy, Physiology & Microbiology) GPA, and (d) core Biology course repetitions.

Other required courses in the Nursing Major include
  • NUTR 010 Nutrition (3 units)
  • CDFS 070 Lifespan Human Development (3 units)
  • NURS 052 Pharmacology (3 units)
  • PSYC 001 General Psychology (3 units)
OR
  • SOCS 022 Minority Group relations (3 units)
  • COMM 001 or approved communications class. It is also highly recommended that English 062 or the College reading requirement be met prior to entering the program as well as all SCC Local District General Education requirements.

Nursing

Application Steps:

1. **Letter grades of at least "C" or better must be officially posted to a transcript to verify COMPLETION of the following prerequisite courses in order to apply for the RN Waitlist.**

   ENGL 001 College Composition
   BIO 004   Human Anatomy w/Lab   *(4 semester units minimum)*
   BIO 005   Physiology w/Lab   *(4 semester units minimum)*
   BIO 014   Microbiology w/Lab   *(4 semester units minimum)*

Note: *No ONLINE Anatomy, Physiology, or Microbiology courses will be accepted.*

2. **APPLY** for admission to SCC online at *www.solano.edu (if not already a current/continuing student).*

3. **We RECOMMEND that you attend a RN Information Workshop**
   For the RN Information Workshop schedule go to *www.solano.edu (Click the A-Z index, then "N" for Nursing)*

4. **APPLY in person at the Admissions and Records (A&R) Office located in the 400 Building at the Fairfield Main Campus (Monday – Thursday 9am – 3pm)**

   PLEASE BRING
   1. **Your California Driver's License or photo ID.**
   2. **OFFICIAL transcripts in sealed, unopened envelopes from ALL colleges, universities, or educational institutions EVER attended, except Solano. (Transcripts must be hand carried.)**
   3. **New, current transcripts are required even if transcripts were submitted prior to submitting the application in person.**

   Note: *We* need *ALL* transcripts
   Even if you did not complete any of the ADN (Associate's Degree in Nursing) required classes at the other institutions you attended, *we still need the transcript.* Even if you feel the courses taken do not relate to our Nursing Program, we still need ALL transcripts.

   <div align="center">

   **FAILURE TO LIST ALL COLLEGES OR UNIVERSITIES, AND SUBMIT ALL TRANSCRIPTS,
   WILL VOID THIS APPLICATION.**

   </div>

5. **WAIT 90 BUSINESS DAYS**. During this time, A &R will evaluate your transcripts and calculate your overall RN Composite Score. Students must earn a score of 73 or above to qualify for the waitlist. **DO NOT CONTACT A & R FOR YOUR RESULTS.** At the end of the 90 days, you will receive a letter by mail from the School of Health Sciences with your results. **IMPORTANT:** Completion timeline may be extended beyond 90 days depending on volume of applications received.

6. Once on the waitlist, you will be invited to take the TEAS V test and you must earn a 62 or higher.
   For more information, see: *https://www.atitesting.com/Solutions.aspx*. You will also be required to meet with a Counselor once you have been on the waitlist one year to review ADN degree requirements.

   International college or university transcripts are also required, but may be unofficial photo copies along with an official international evaluation service summary in a sealed, unopened envelope from an approved credential evaluation service** and must include:
   - *A detailed report which distinguishes lower division from upper division courses*
   - *A-F letter grade values*
   - *Course descriptions for any RN science prerequisites (Anatomy, Physiology, Microbiology) that were completed at an international institution.*

   **A list of acceptable evaluation service companies is available from A&R.

NOTE: Dishonest or unethical conduct during the application process may lead to disqualification of the application.

Prior to First Class Meeting, Students Accepted into the Nursing Program Must Have:
   1. Physical examination indicating physical fitness and freedom from illness with required immunizations.
   2. Cardiopulmonary Resuscitation (CPR) for Health Care Providers card.
   3. Attended a mandatory orientation meeting with nursing faculty to be arranged by Health Sciences.
   4. Taken the reading assessment test or have met the reading requirement for graduation.
   5. Provided a clear criminal background check and drug screen.
   6. Achieved a score of 62 or greater on the TEAS V test.

Nursing

Retention in Program:
1. Students are required to undergo criminal background checks and drug screens. 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 terminated from the nursing program.
3. If a student's physical or emotional health appears to be such that he or she cannot meet the objectives of the program in nursing, the student may be asked to leave the nursing program.
4. In order to remain in the program and to graduate, a student must maintain a letter grade of C or better in the theory and the clinical portions of the nursing program.
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 . . . . **Units**
Nursing courses must be taken in sequence because one course is prerequisite to another.
NURS 058 Mediated Skills Development. . . . . 0.5 -1.5
(Concurrent enrollment in NURS 058 is required for each of the following Nursing courses except NURS 052 & 065.)

First Year Courses . . . . **Units**
NURS 050A Fundamentals of Nursing 5
NURS 050B Basic Human Needs 6
CDFS 070 * Lifespan Human Development 3
NUTR 010 * Nutrition 3
NURS 052 * Pharmacology for Nursing 3
NURS 054 Maternal-Child Nursing. 5
NURS 055 Nursing of Adults I 5
PSYC 001 ** Introduction to Psychology. 3
OR
SOCS 022 Ethnic, Racial and Minority Group
        Relations in Harmony and Conflict. 3
*Course must be completed prior to entry into NURS 054
**Course must be completed prior to entry into NURS 060/061

Second Year Courses
NURS 060 Nursing of Adults II/
        Medical-Surgical Nursing 5
NURS 061 Psychiatric and Mental Health Nursing 5
NURS 063 Advanced Medical Surgical
        and Community Nursing. 7
NURS 064 Issues and Leadership
        in Health Care Today 2
NURS 065 Role Transition in Practice 2.5

Concurrent Courses
The following courses are required for graduation and must be completed prior to entering the fourth semester of the Nursing Program, as the fourth semester schedule does not accommodate the scheduling of other courses.
ENGL 062 Analytical Reading 3
OR
meet the reading requirement
Communications course other than ENGL 001 3

Nursing

Career Mobility

The Career Mobility Program at Solano Community College provides an opportunity for qualified licensed vocational nurses to be admitted with advanced placement into the Registered Nursing program. This program is designed to prepare technically competent nurses for service in the community. The curriculum includes study in general education, biophysical and social science courses. Principles derived from academic study are applied to the practice of nursing. The nursing major is comprised of lecture-discussion classes on campus and client care laboratory experience in agencies within the community. Nursing preparation includes the care of adults and children in medical, surgical, psychiatric and community settings. This program is accredited by the California Board of Registered Nursing.

Program Requirements and Courses

Students are encouraged to attend a Registered Nursing Information Workshop prior to seeing a counselor individually. These workshops provide a basic understanding of the nursing program and the requirements for application. After attending the Nursing Information Workshop students planning to major in Nursing should make an appointment with a counselor for assistance in developing an education plan.

Program Information

Licensed vocational nurses have two career mobility options:

Associate Degree Option:

Applicants must complete prerequisites for the nursing program, science courses and the general education requirements for the Associate Degree. By choosing this option:
- You would complete a total of 49 to 52 units toward the 60 units required for the Associate Degree.
- You would be a graduate of an accredited ADN program.
- You would be eligible for RN licensure by endorsement in other states.

Prerequisites

To be eligible to apply to the Career Mobility Program Associate Degree Option, students must have completed:
- ENGL 001 - College Composition (3 units)
- BIO 004 - Human Anatomy (5 units)
- BIO 005 - Introductory Physiology (5 units)
- BIO 014 - Principles of Microbiology (4 units)
- NUTR 010 - Nutrition (3 units)
- CDFS 070 - Lifespan Human Development (3 units)
- NURS 052 - Pharmacology for Health Care Professionals I (3 units)
- PSYC 001 - Introduction to Psychology: Individual & Social Processes (3 units)

OR
- SOCS 022 - Ethnic, Racial, and Minority Group Relations in Harmony and Conflict (3 units)

NOTE: **All courses required for graduation should be completed prior to entering the fourth semester of the Nursing Program, as the fourth semester schedule does not accommodate the scheduling of other courses. It is highly recommended that ENGL 062 or the college reading requirement be met prior to entering the program.**

Thirty-Unit Option:

By choosing this option:
- You would complete a total of 29-30 units.
- You would not be a graduate of an Associate Degree Program.
- You would not be a graduate of the Solano College Nursing Program and may not wear the school pin.
- You would be eligible for licensure in California and may not be eligible for licensure in other states.

Prerequisites
- BIO 005 - Introductory Physiology (5 units)
- BIO 014 - Principles of Microbiology (4 units)

You must achieve a composite score of 73 or above to qualify for the waiting list. Composite score is determined by a combination of : (a) overall college GPA, (b) English GPA, (c) core Biology (Anatomy, Physiology & Microbiology) GPA, and (d) core Biology course repetitions.

Nursing

Application Steps

1. In order to apply to the LVN-RN Waitlist, letter grades of at least C or better must be officially posted to a transcript to verify COMPLETION of the following EIGHT prerequisite courses.

ENGL 001 College Composition	NUTR 010 Nutrition
BIO 004 Human Anatomy w/Lab (4 sem. units minimum)	CDFS 070* Lifespan Human Development
BIO 005 Physiology w/Lab (4 sem. units minimum)	NURS 052 Pharmacology
BIO 014 Microbiology w/Lab (4 sem. units minimum)	PSYC 001 *or* SOCS 022 Ethnic Race Relations

2. APPLY for admission to SCC online at *www.solano.edu* (if not already a current/continuing student).

3. WE HIGHLY RECOMMEND THAT YOU ATTEND A RN INFORMATION WORKSHOP
For the RN Information Workshop schedule, go to www.solano.edu (Search for Nursing in the A – Z index)

4. APPLY IN PERSON at the Counseling Office located in the 400 Building at the Fairfield Main Campus (Monday-Thursday 8:30-6:00, Friday 8:30-3:00)

PLEASE BRING:
1. California Driver's License or photo ID.
2. OFFICIAL TRANSCRIPTS in sealed, unopened envelopes from ALL colleges, universities, or educational institutions EVER attended, except Solano. (Transcripts must be hand carried. New, current transcripts are required even if transcripts were submitted prior to submitting the application in person.)

Note: We need ALL transcripts
Even if you did not complete any of the ADN (Associate's Degree in Nursing) required classes at the other institutions you attended, *we still need the transcript*. Even if you feel the courses taken do not relate to our Nursing Program, we still need ALL transcripts.

Failure to list ALL colleges or universities, and submit ALL transcripts, will VOID this application.

5. WAIT 90 BUSINESS DAYS. During this time, Admissions and Records (A&R) will be evaluating your transcripts and calculating your overall RN Composite Score. Students must earn a score of 73 or above to qualify for the waitlist. **Do not contact A&R for your results**. IMPORTANT: Completion timeline may be extended beyond 90 days depending on volume of applications received.

6. WAIT 90-BUSINESS-DAYS RETURN IN PERSON OR CALL (707-864-7101) the Counseling Office to schedule a one-hour "LVN-RN Referral Appointment." *This is your responsibility.*

7. ATTEND THE SCHEDULED LVN-RN REFERRAL APPOINTMENT. During your counseling appointment, the counselor will review and post all completed pre-Major and General Education requirements, and list the remaining required courses for you to graduate from Solano Community College. You will then receive a wait list number by mail from the School of Health Sciences.

8. Once on the waitlist, you will be invited to take the **TEAS V Test** and you must earn a 62 or higher. For more information, see: *https://www.atitesting.com/Solutions.aspx* .

NOTE: Dishonest or unethical conduct during the application process may lead to disqualification of the application.

Other Requirements
  • Upon admission to the program, students are required to enroll in NURS 159 during the next session.

Prior to First Class Meeting, Students Must Have:
  1. Physical examination indicating physical fitness and freedom from illness with required immunizations.
  2. Cardiopulmonary Resuscitation (CPR) for Health Care Providers card.
  3. Attended an orientation meeting with nursing faculty to be arranged by Health Occupations.
  4. Taken the reading assessment test or have met the reading requirements for graduation.
  5. Provide a clear criminal background check and drug screen.
  6. Achieve a score of 67 or greater on the TEAS V test.

Nursing

Retention in Program:

1. Students are required to undergo criminal background checks and drug screens. The Health Occupations Division 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 terminated from the nursing program.
3. If a student's physical or emotional health appears to be such that he or she cannot meet the objectives of the program in nursing, the student may be asked to leave the nursing program.
4. In order to remain in the program and to graduate, a student must maintain a grade of "C" or better in the theory and the clinical portions of the nursing program.
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 any license 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.

Certified Nursing Assistant
Job-Direct Certificate

The required courses must be completed with a grade of C or better.

REQUIRED COURSES . . . . Units
NURS 200 Certified Nursing Assistant /
       Home Health Aide 6
   Total Units 6

Emergency Medical Technician I
Job-Direct Certificate

The required courses must be completed with a grade of C or better.

REQUIRED COURSES . . . . Units
EMT 112 Emergency Medical Technician (Basic). 7
   Total Units 7

Nursing

Emergency Medical Technician

EMT   112   7.0 Units
Emergency Medical Technician (Basic)
Prerequisite: EMT 128 with a minimum grade of C. Course Advisory:Eligibility for ENGL 001 and SCC minimum Math standard. Based on state Emergency Medical Services Association regulations, the goal of the EMT (Basic) course is to acquire essential assessment & treatment skills for the delivery of prompt, efficient & 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 & 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 & 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 orientation meeting in order to enroll in the course. Can be repeated every 2 years. *Five hours lecture, six hours activity.*

EMT   128   3.0 Units
Emergency Medical Responder
Course Advisory: SCC minimum English and Math standards. 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. *Five hours lecture, three hours lab (8-week course).*

EMT   213   1.0 Unit
Emergency Medical Technician (Basic) Refresher
Prerequisite: EMT 212 or equivalent or previous EMT 213. Course Advisory: SCC minimum English and Math standards. Consists of review and update of EMT 212 course content and focuses on hands-on practice of all pre-hospital emergency skills, meeting the education requirements for EMT renewal. Topics and skills include: legal issues (including HIPAA), trauma, triage, use of airway/ventilation equipment with CPR, automated external defibrillation (AED), patient exam (medical & trauma), assessments and treatments for breathing, cardiovascular, neurologic, musculoskeletal, soft tissue injury, childbirth & environmental emergencies. Students apply assessments and treatments during pre-planned patient care skills scenarios to meet EMSA requirements for skills verification. May repeat every 1-2 years, ad infinitum (as stipulated by EMSA regulations for EMT I refresher and renewal). *Four and one half hours lecture, four and one half hours activity (3-week course).*

Nursing

NURS   050A   5.0 Units
Fundamentals of Nursing
Corequisite: NURS 058A. Prerequisite: A minimum grade of C in ENGL 001, BIO 004, BIO 005, and BIO 014; current CPR for Healthcare Providers, current physical exam, immunizations and background check with drug screen. Authorization to enter RN program. Course Advisory: Basic computer navigation skills and frequent internet access is required. Introduction to the principles of nursing to meet needs common to all individuals. Utilizing the concept of homeostasis and communications theory, the student will study stressors affecting the patient's position on the wellness-illness continuum. The nursing process will be introduced, utilized and applied at the beginning level. The basis of the nurse-patient relationship will be explored. Clinical assignments, self-study modules and small group seminars will be offered concurrently with theory. *Eight hours lecture, six hours lab (8-week course).*

NURS 050B   **6.0 Units**
Basic Human Needs
Corequisite: NURS 058A Prerequisite: NURS 050A with a minimum grade of C. Course Advisory: Basic computer navigation skills and frequent internet access is required. This course is an introduction to the demands for increased care that are necessitated by deviations in health in the adult. Emphasis is placed on the basic human needs of activity and rest, oxygenation, fluid and electrolytes, nutrition, comfort, and elimination. Also included in the course are gerontology, nursing process, oral and injectable medication administration, wound care, and care of the adult perioperative patient. Clinical assignments, self-study modules and seminar will be offered concurrently with theory. *Seven hours lecture, fifteen hours lab (8-week course).*

NURS 052   **3.0 Units**
Pharmacology for Nursing
Prerequisite: BIO 005 with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. Basic computer navigation skills and frequent internet access is required. Nursing or Pre-nursing Students. This course is 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. *Three hours lecture.*

NURS 054   **5.0 Units**
Maternal-Child Nursing
Corequisite: Concurrent enrollment in NURS 058B. Prerequisite: Minimum grade of C in NURS 050A, NURS 050B, NURS 052, NUTR 010, and CDFS 070. Course Advisory: Basic computer navigation skills and frequent internet access is required. A family centered course with emphasis on nursing care of women and children. The focus includes the antepartal, intrapartal, postpartal, neonatal and pediatric client, both sick and well. This course provides students the opportunity to synthesize and utilize nursing knowledge and skills in providing care to clients in a variety of settings. Concepts of homeostasis, communication, and growth and development are integrated throughout the course. The nursing process is utilized with concepts of legal aspects, pharmacology, clinical skills, safety and asepsis, crisis intervention, health teaching, and self-evaluation. Clinical assignments and self-study modules are offered concurrently with theory. This course must be completed successfully with a minimum grade of C to advance in the nursing program. *Five hours lecture, fifteen hours lab (8-week course).*

NURS 055   **5.0 Units**
Nursing Of Adults I
Corequisite: Concurrent enrollment in NURS 058B or 058E. Prerequisite: Completion with a minimum grade of C in NURS 050A & 050B, NURS 052, NUTR 010, and CDFS 070. Course Advisory: Basic computer navigation skills and frequent internet access is required. Covers the theory and practice of nursing necessary to assist the adult in meeting selected health care needs. Emphasis is placed on the client experiencing health alterations in the musculoskeletal, respiratory, cardiovascular and gastrointestinal systems. The concepts of safety, communication, clinical decision making, asepsis, pharmacology, legality, ethics, health teaching and self-evaluation are integrated throughout the course. Issues related to culture, developmental level and sexuality are considered, as nursing care is individualized to the client. Skill modules and clinical experiences are offered concurrently with theory. *Five hours lecture, fifteen hours lab (8-week course).*

NURS 058   **0.5 Unit**
Mediated Skills Development

Prerequisite: Concurrent enrollment in either NURSE 50A & 50B, 54, 55, 60, or 63. A variable unit course which is required of all nursing students in each semester of the nursing program. A portion of the unit credit may be used for group and/or individual study time. Students have the opportunity to practice the required skills modules for each nursing course. This practice takes place under the supervision of the skills laboratory instructor, a registered nurse. The skills modules have been leveled to match the content. Students must demonstrate competency in all of the assigned skills modules. Peer checkoff is permitted on some of the modules, whereas more complex modules require checkoff by the skills lab instructor. The mediated skills lab is a valuable adjunct to all of the nursing courses as it allows students the time and place to not only practice and master skills, but to study theoretical concepts. This is a credit/no-credit class. May be repeated to a maximum of 6 units, including initial enrollment. *One and one-half to four and one-half hours lab.*

NURS 058A   **1.0 Unit**
Skills Lab I

Corequisite: NURS 050A with a minimum grade of C (may be taken concurrently). Course Advisory: Basic computer navigation skills and frequent internet access is required. This is a 1.0 unit course that is required for students who are enrolled in the first semester of the nursing program. Students will participate in basic skills and introduction to simulations that involve group, peer and instructor evaluations. Students have the opportunity to practice and employ the required knowledge, skills and attitudes of a Registered Nurse through the use of the nursing process and QSEN standards for each course throughout the curriculum. Students are required to demonstrate competency in the required skills modules as well as participation in human patient care simulation scenarios by the end of the semester. Major modules that are instructor moderatedinclude:applying a dry, sterile dressing, administering enteral feedings, administering and managing primary intravenous line therapy and insertion, irrigation and discontinuing a nasogastric tube. Other peer evaluated skills include application of cold/heat therapy, use of compression devices, incentive Students are required to purchase a Nursing Skills Lab kit, stethoscope, white lab coat and uniform per the Registered Nursing Student Handbook. This is a Pass/No Pass only course. *Three hours lab.*

NURS 058B   **1.0 Unit**
Skills Lab II

Corequisite: Concurrent enrollment in NURS 055 or NURS 054. Prerequisite: NURS 058 or successful completion of NURS 058A. Course Advisory: Basic computer navigation skills and frequent internet access is required. This is a 1 unit course that is required for students who are enrolled in the second semester of the nursing program. Students will build on previously learned concepts, content and participate in skills and simulations that involve group, peer and instructor evaluations. Students have the opportunity to practice and employ the required knowledge, skills and attitudes of a Registered Nurse through the use of the nursing process and QSEN standards for each course throughout the curriculum. Students are required to demonstrate competency in the required skills modules including: urinary catheter insertion, care and removal, application of a wet-to-damp dressing/packing, Intravenous (IV) piggyback medication, IV push medication, conversion of an IV to a saline lock, IV pump programing, ostomy bag application and management, performing blood glucose monitoring, collection of a pediatric urine specimen. Participation in human patient care simulation scenarios by the end of the semester are required. Students are required to purchase a Nursing Skills Lab kit, stethoscope, white lab coat and uniform per the Registered Nursing Student Handbook. This is a Pass/No Pass only course. *Three hours lab.*

Nursing

NURS   058C   **0.5 Units**
Skills Lab III

Corequisite: Concurrent enrollment in NURS 060 or NURS 061. Prerequisite: NURS 058 or successful completion of NURS 058B or 058E. Course Advisory: Basic computer navigation skills and frequent internet access is required. This is a 0.5 unit course that is required for students who are enrolled in the third semester of the nursing program. Students will continue to build on previously learned concepts, content and participate in skills and simulations that involve group, peer and instructor evaluations. Students will continue to practice and employ the required knowledge, skills and attitudes of a Registered Nurse through the use of the nursing process and QSEN standards for each course throughout the curriculum. Students are required to demonstrate competency in the required skills modules including: administration of blood and blood products, central line care including blood drawing, flushing, dressing change and injection port change, continual practice of previouly completed modules from first year skills courses and participation in human patient care simulation scenarios. Students are required to purchase a Nursing Skills Lab kit, stethoscope, white lab coat and uniform per the Registered Nursing Student Handbook. This is a Pass/No Pass only course. *One and one-half hours lab.*

NURS   058D   **0.5 Unit**
Skills Lab IV

Corequisite: NURS 063. Prerequisite: Successful completion of NURS 058 or NURS 058C. Course Advisory: Basic computer navigation skills and frequent internet access is required. This is a 0.5 unit course that is required for students who are enrolled in the fourth semester of the nursing program. Students will continue to build on previously learned concepts, content and participate in more advanced skills and simulations that involve group, peer and instructor evaluations. Students will continue to practice and employ the required knowledge, skills and attitudes of a Registered Nurse through the use of the nursing process and QSEN standards for each course throughout the curriculum. Students are required to demonstrate competency in the required skills modules including venipuncture, tracheostomy care and suctioning, management of a chest tube drainage system and practice of all previously completed skills from prior semesters. Participation in human patient care simulation scenarios is required. Students are required to have purchased a Nursing Skills Lab kit, stethoscope, white lab coat and uniform per the Registered Nursing Student Handbook. This is a Pass/No Pass only course. *One and one-half hours lab.*

NURS 058E   **1.0 Unit**
Skills Lab for LVN Transition Students
Corequisite: Concurrent enrollment in NURS 159 or NURS 055. Course Advisory: Basic computer navigation skills and frequent internet access is required. This is a 1.0 unit course that is required for students who are enrolled in the LVN to RN Transition Course, NURS 159. Students will continue to build on previously learned concepts, content and participate in skills and simulations that involve group, peer and instructor evaluations including: dry-sterile dressing application, wet-to-damp dressing and packing, enteral feedings, insertion, maintainance and discontinuance of nasograstric tubes, intravenous (IV) therapy and medication administration via piggyback and IV push, urinary catheter insertion, care & removal, blood glucose monitoring, conversion of an IV to a saline lock, ostomy care, nasopharyngeal suctioning, administration of non-IV medication administration. Students will continue to practice and employ the required knowledge, skills and attitudes of a Registered Nurse through the use of the nursing process and QSEN standards for each course throughout the curriculum. Students are required to demonstrate competency in the required skills modules as well as participation in human patient care simulation scenarios by the end of the semester. Students are required to puchase a Nursing Skills Lab kit, stethoscope, white lab coat and uniform per the Registered Nursing Student Handbook. This is a Pass/No Pass only course. *Three hours lab.*

NURS 060   **5.0 Units**
Nursing Of Adults Ii/Medical-Surgical Nursing
Corequisite: Concurrent enrollment in NURS 058C. Prerequisite: A minimum grade of C in NURS 054 and NURS 055 and either PSYC 001, PSYC 002 or SOCS 022. Course Advisory: Basic computer navigation skills and frequent internet access is required. This course continues with the theory and practice of nursing necessary to assist the adult in meeting selected health care needs. Emphasis is placed on the patient experiencing health alterations related to nutritional deficits, the endocrine, renal/urinary, neurological and immune systems. The concepts of delegation, safety, communication, clinical decision-making, asepsis, pharmacology, legality, ethics, health education, and self-evaluation are integrated throughout the course. Issues related to culture, developmental level and sexuality are considered, as nursing care is individualized to the patient. Leadership and management concepts are introduced. Skill modules and clinical experiences are offered concurrently with theory. *Five hours lecture, fifteen hours lab (8-week course).*

NURS 061   **5.0 Units**
Psychiatric And Mental Health Nursing
Prerequisite: NURSE 054 & 055 and either PSYC 001, or SOCS 022 with grades of "C" or better, or NURS 159 & NURS 055 and either PSYC 001, or SOCS 022 with grade of "C" or better. Course Advisory: Basic computer navigation skills and frequent internet access is required. Theory and practice related to mental health and illness is studied. This includes the principles and practices of mental health nursing using the prevailing psychobiological theories of mental health and illness, interpersonal communication, group process, growth and development and sociocultural theories. The nursing process is emphasized as the student nurse maintains and promotes mental health and seeks to prevent mental illness. Clinical experience is provided concurrently with theory in acute psychiatric hospitals, long-term care facilities and community agencies. Opportunity is provided for working with children, adolescents and adults individually, as well as in groups. *Five hours lecture, fifteen hours lab (8-week course).*

Nursing

NURS   063   **7.0 Units**
**Advanced Medical Surgical and
Community Nursing**
*Corequisite: Concurrent enrollment in NURS 058D.
Prerequisite: A minimum grade of C in NURS 060 and 061.
Course Advisory: SCC minimum English and Math
standards.* Basic computer navigation skills and
frequent internet access is required. This course builds
on the concepts introduced in previous nursing
courses. Complex alterations in physiological
processes are studied as they relate to multi-system
Illnesses. This course requires students to develop and
utilize critical thinking skills in working with patients
across the lifespan in emergency, critical care, medical
surgical units and the community. The clinical
experience affords students the opportunity to apply
theoretical knowledge, critical thinking skills (which
are inherent to the nursing process), and psychomotor
skills to a practical situation. The focus is to provide
care to multiple patients across the lifespan who have
complex multi-system illnesses and patients in the
community. This course facilitates the student's entry
into the profession of nursing. Legal and ethical
responsibilities related to professional nursing practice
are considered. Skill modules and clinical experience is
offered concurrently with theory. *Four hours lecture,
sixteen hours lab (12-week course).*

NURS   064   **2.0 Units**
Issues and Leadership in Health Care Today
*Corequisite: NURS 063 and/or NURS 065. Prerequisite: A
minimum grade of C in NURS 060 and NURS 061. Course
Advisory: SCC minimum English and Math standards.*
Basic computer navigation skills and frequent internet
access is required. This course facilitates the graduates'
entry into the profession of nursing. Topics include
current issues, trends and leadership theories in the
registered nurses 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.
Field trips may be required. *Two hours lecture.*

NURS   065   **2.5 Units**
Role Transition in Practice
*Corequisite: NURS 064. Prerequisite: NURS 063 with a
minimum grade of C. Course Advisory: SCC minimum
English and Math standards.* Basic computer navigation
skills and frequent internet access is required. This
course is 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.
Twenty-four hours lab (5-week course).

NURS   101   **3.0 Units**
Preparation For Nursing
*Course Advisory: SCC minimum English and Math
standards.* Basic computer navigation skills and
frequent internet access is required. Designed to
provide pre-nursing and beginning nursing students
with realistic and useful strategies to enhance their
success in reaching this career goal. Students will gain
a realistic understanding of the nursing profession;
critically analyze their own strengths, and develop
strategies to identify and strengthen areas needing
improvement. The course will also provide the student
with the knowledge and skills to identify and locate
social and financial resources; develop and/or
enhance language, math and communication skills to
work effectively with a culturally diverse population;
develop and enhance critical thinking skills; and
enhance self-assessment and accountability skills.
Three hours lecture.

Nursing

NURS 103   **6.5 Units**
Certified Nursing Assistant
Prerequisite: Applicants must be at least 16 years old. Course Advisory: SCC minimum English and Math standards. 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 orientation prior to the beginning of class. 8-week course. *Eight hours lecture, sixteen hours lab.*

NURS 104   **2.0 Units**
Homs Health Aide
Prerequisite: NURS 103 with a minimum grade of C (may be taken concurrently). The home health aide course is 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. 4-week course. *Six hours lecture, six hours lab.*

NURS 105   **2.0 Units**
Acute Care Nursing Assistant
Prerequisite: NURS 103 with a minimum grade of C. CNA acute care courses focus on patients with acute illness or short-term illness or injury. These classes prepare 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. *Eight hours lecture, ten hours lab. (3-week course).*

NURS 111   **3.0 Units**
Medical Terminology
Course Advisory: SCC minimum English and Math standards. Basic computer navigation skills and frequent internet access is required. Study of the language of medicine. An introduction to terms, word roots and abbreviations related to medical practice and the functioning of the systems of the body. *Three hours lecture.*

NURS 148M   **5.0 Units**
Maternal Nursing for International Nurses
Prerequisite: Dean Authorization to Enroll; Board of Registered Nursing Letter stating need for additional content and lab hours in Maternal Nursing, Physical exam, Immunizations and proof of TB clearance as required by partner health care facilities; Criminal Background check and Drug Screen per Nursing Program requirements; CPR for Health Care Providers from the American Red Cross or American Heart Association. Course Advisory: SCC minimum English and Math standards. Basic computer navigation skills and frequent internet access is required. A family-centered course with emphasis on nursing care of women and children for the foreign nurses. The focus includes the antepartal, intrapartal, postpartal, and neonatal client, both healthy and ill. This course provides students the opportunity to synthesize and use nursing knowledge and skills in providing care to clients in a variety of settings. Concepts of homeostasis, communication, and growth and development are integrated throughout the course. The nursing process is used with concepts of legal aspects, pharmacology, clinical skills, safety and asepsis, crisis intervention, health teaching, and self-evaluation. Clinical assignments and self-study modules are offered concurrently with theory. This course must be completed successfully with minimum grade of C to pass the class. *Five hours lecture, Fifteen hours lab. (8-week course)*

Nursing

NURS 148N — 1.5 Units
NCLEX-RN Exam Preparation Course
Prerequisite: Authorization of Dean to enroll. Course Advisory: minimum SCC English and math standards. This course is designed to assist nursing students/graduates in preparing to take the NCLEX-RN (National Council Licensure Examination-Registered Nurse). The student will identify knowledge deficits and learn test-taking strategies in a self-directed learning environment. Practice in answering NCLEX-style questions is a major component of the class. This is a Pass/No Pass only course. *Three hours lecture.*

NURS 159 — 3.5 Units
Career Mobility Transition
Co-requisite: NURS058E. Prerequisite: Current LVN Licensure and acceptance into the ADN Program; authorization to enroll. Course Advisory: SCC minimum English and Math standards. Basic computer navigation skills and frequent internet access is required. This course is designed to facilitate the transition of the Career Mobility student into the Associate of Science Degree in Registered Nurse (RN) program at Solano Community College. This course focuses on theory and skills needed for successful transition from the student's current role to the role of the Registered Nursing student. This course presents the major theoretical concepts (i.e., role transition, homeostasis, fluid and electrolytes, asepsis, critical thinking, nursing process, therapeutic communication, medication calculations as well as professional legal / ethical issues) that are the foundation for the Registered Nursing curriculum. This course encompasses both classroom activities and opportunities to apply theoretical knowledge in the clinical/simulated setting. *Four hours lecture, nine hours lab (8-week course).*

NURS 219 — 2.0 Units
Cardiac Rhythms
Prerequisite: BIO 004, BIO 005. Course Advisory: SCC minimum English and Math standards. Basic computer navigation skills and frequent internet access is required. Designed for health care professionals who need to distinguish among the various cardiac rhythms/dysrhythmias while caring for patients on cardiac monitors. Topics include: basic cardiac physiology, electrophysiology of cardiac tissues; basic pathophysiology of coronary artery disease; identification and interpretation of sinus rhythms versus cardiac dysrhythmias; application of chest monitoring electrodes and 12 Lead ECG electrodes; and use of an oscilloscope. *Four hours lecture (8-week course).*

NURS 223 — 4.0 Units
Critical Care Nursing
Prerequisite: RN or LVN Licensure and NURSE 219. Course Advisory: SCC minimum English and Math standards. Basic computer navigation skills and frequent internet access is required. Designed for staff nurses to provide essential knowledge and skills to adequately function in a critical care unit. For each body system, course content includes: brief review of anatomy and physiology; identification of critical illness states; potential complications; correlation of specific physical assessment/laboratory data; operational principles for the use of critical care equipment; nursing care responsibilities in the care of the critically ill patient; legal aspects of critical care nursing. *Four hours lecture.*

NURS 230 — 4.0 Units
Emergency Nursing
Prerequisite: RN or LVN licensure and NURSE 219. Course Advisory: SCC minimum English and Math standards. Basic computer navigation skills and frequent internet access is required. Prepares staff nurses with essential knowledge and skills to function effectively within an emergency department. Topics include the emergency care of patients with: respiratory, cardiovascular, shock, neurological, orthopedic, abdominal, ENT, obstetrical, gynecological, genitourinary, pediatric, environmental, endocrine, trauma, psychological, psychiatric, abuse, and toxicologic emergencies. For each topic, pertinent physical and laboratory assessments, priorities of nursing care, interventions, and standards for documentation are explored. *Four hours lecture.*

Nutrition

NUTR 010   **3.0 Units**
Nutrition
Course Advisory: Eligibility for English 001 and SCC minimum Math standards. Study of the basic principles 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. *Three hours lecture.*

NUTR 012   **0.5 to 2.0 Units**
Evaluating Current Topics in Nutrition
Course Advisory: Eligibility for English 001 and SCC minimum Math standards. 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. *One-half to two hours lecture.*

NUTR 053   **3.0 Units**
Child Health, Safety, and Nutrition
Course Advisoriy: SCC minimum English and math standards; HUDV 038 and ECE 062. This course examines basic nutrition, health, and safety needs of children from the prenatal period through school age. Topics to be covered include nutrition, common childhood diseases, and special health problems of the young child. The course emphasis is placed on maintaining the optimal health, safety, and nutritional status of children at home and in group care. *Three hours lecture.*

NUTR 054   **3.0 Units**
Child Health, Safety, and Nutrition
Course Advisory: Eligibility for ENGL 001, CDFS 038 and CDFS 062. 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 is the same course as CDFS 054. *Three hours lecture.*

Occupational Education

All unit counts may not be offered in a given semester. Students enrolled in OCED 091 may not enroll in OCED 090 or any other experiential or practicum course and count the same hours during the same semester.

Program Description

OCED 090 and 091 are variable-unit work experience courses available to all occupational education certificate and degree programs students. These courses are designed to combine academic studies with practical, on the job experience, enabling students to apply theories learned in the classrooms to real work situations while earning college credits. Students wishing to continue OCED 090 and 091 over multiple semesters must contact the Work Experience Coordinator for enrollment assistance.

Through an agreement formulated at the beginning of the semester, each student establishes specific "Measurable Learning Objectives" to be accomplished by the end of the grading period. This cooperative agreement may be in the private sector or in public agencies and may be paid or volunteer.

For more information on Solano Community College's Work Experience program, please visit
http://www.sccworkexperience.com/ .

Soft Skills for Technicians Job-Direct Certificate

Program Outcomes

Students completing a Soft Skills for Technicians Job-Direct Certificate will be able to:
1. Identify and demonstrate proper occupational readiness, solid soft skills, a professional attitude, the ability to work as a team, and identify career goals.
2. Demonstrate the ability to create an accurate and comprehensive set of technical reports.
3. Demonstrate the ability to assess and solve a technical problem through accurately selecting and applying the appropriate measurement and performing calculations to confirm results.

The required courses must be completed
with a grade of "C" or better . . . . **Units**
OCED 070 Occupational Soft Skills 1.5
OCED 071 Occupational Portfolio Development 1.5
IT 151 Vocational Mathematics. 3
IT 140 Industrial Mathematics 3
3 units from the following list 3
   Total Units **12**

Select 3 units from the following list:
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 How Things Work 3
IT 110 Modern Welding 3
OCED 090 Occupational Work Experience. 3
OCED 091 Occupational Work Experience. 3

Occupational Education

OCED 070   **1.5 Units**
Occupational Soft Skills
Course Advisory: Minimum SCC math and English requirements. 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. *Three hours lecture.*

OCED 071   **1.5 Units**
Occupational Portfolio Development
Course Advisory: SCC minimum English standard. Innovative in career planning, career portfolios are designed to assist in demonstrating skills and competencies. In this course, participants 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. Participants will analyze how the career portfolio can be used as a tool for the job search as well as career advancement. A hard copy and/or electronic career portfolio will be completed by the end of this course. *8-week course. Three hours lecture.*

OCED 090   **1.0 to 8.0 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 relate to student's major field. Course Advisory: SCC minimum English and Math standards. To Qualify for Occupational Work Experience credit, the student must be working (paid or unpaid) for a legal business in a position directly related to the declared major. Students must work 75 hours per unit of credit for paid work and 60 hours per unit of credit for unpaid work. Students will attend a weekly coordination seminar and develop job-oriented objectives. OCED 090 may be required for some majors and is an elective for all occupational education certificate and degree programs. Qualified students who are not working or volunteering may seek placement assistance from the Student Placement Office. 1 unit of credit may be earned for each 75 hours paid or 60 hours unpaid work per semester to a maximum of 8 units per semester to a total of 16 units over multiple semesters. NOTE: Students enrolled in OCED 90 may not enroll in OCED 91 or any other experiential or practicum course and count the same hours during the same semester. Lab hours are the hours students spend on their job sites. Students wishing to take the maximum OCED units may continue OCED 090 over multiple semesters not to exceed 16 units total for all work experience courses. Students wishing to continue OCED 090 in subsequent semesters must contact the Work Experience Coordinator for enrollment assistance.

Occupational Education

OCED 091   **1.0 to 6.0 Units**
General Work Experience
Corequisite: Student must be available to work 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. Course Advisory: SCC minimum English and Math standards. To Qualify for General Work Experience credit, the student must be working (paid or unpaid) for a legal business. Students must work 75 hours per unit of credit for paid work and 60 hours per unit of credit for unpaid work. Work does not need to be related to major. Students will attend a weekly coordination seminar and develop job-oriented objectives. OCED 091 is an elective for all occupational education certificate and degree programs. Qualified students who are not working or volunteering may seek placement assistance from the Student Placement Office. 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. OCED 091 may be taken over multiple semesters for a maximum of 6 units. NOTE: Students enrolled in OCED 91 may not enroll in OCED 90 or any other experiential or practicum course and count the same hours during the same semester. Total work experience units may not be more than 16. Lab hours are the hours students spend on their job sites. Note: CSU will accept up to 12 units for transfer.

OCED 101   **1.0 Unit**
Occupational Soft Skills
Course Advisory: SCC minimum English and Math requirements. Covers the critical tools to help occupational students develop the employability or soft skills needed for a smooth transition to the work force. Topics include practical elements required to meet employer expectations, create cooperative co-worker interactions and development of positive personal characteristics. Etiquette and work ethics are stressed along with practical job hunting skills such as resumes and interviews. This is not a work experience course. *One hour lecture (8-week course).*

Office Technology

Office Technology Administrative Assistant

Program Description
This program is designed to develop technical and communication skills required for management support. literacy, keyboarding skills, document formatting, proofreading and grammatical skills, presentation skills, spreadsheet, and organizational skills are emphasized.

Certificate of Achievement and Associate in Science Degree
A Certificate of Achievement can be obtained upon successful completion of all courses. An Associate in Science Degree can be obtained upon completion of 60 units, including the required courses in the major, and the general education requirements. All courses for 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 Administrative Assistant Certificate of Achievement/Associate Degree 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**
BUS 092 Business Communication 3
BUS 100 Work Readiness 1.5
BUS 181 Business Mathematics 1
CIS 001 Introduction to Computer Science. 3
OR
CIS 050 Microcomputer Applications 3
CIS 066 Microsoft Word. 3
CIS 073 Microsoft Excel 3
CIS 090 Introduction to PowerPoint. 1.5
CIS 091 Microsoft Outlook. 1.5
OCED 090 Occupational Work Experience. 1
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 056 Business Grammar and Proofreading 2
OT 151 Office Systems & Procedures 3
OT 162 Ten-Key. 1
    Total Units:. 31.5

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Office Technology Administrative Assistant."

Office Technology

Medical Front Office Clerk

Program Description
The goal of this program is to prepare students to enter the health care industry at an
entry-level position in two semester.

Certificate of Achievement
A Certificate of Achievement can be obtained upon successful completion of the 26-unit major below. All courses 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 Medical Front Office Clerk 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 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
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
BUS 100 Work Readiness 1.5
OT 056 Business Grammar and Proofreading 2
OT 059 Medical Keyboarding and
       Computer Applications 3
OT 061 Health Insurance 3
OT 101 Study of Human Diseases
       for Medical Assistants 3
   Total Units **26**

*Courses should be taken in sequence.

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Medical Front Office Clerk."

Office Technology

Office Technology Medical Office and Coding Specialist

Program Description
This program builds upon the Medical Front Office Clerk program. Additional course work prepares students to perform medical front office duties including Medical Coding.

Certificate of Achievement and Associate in Science Degree
The Certificate of Achievement can be obtained upon successful completion of all courses. The Associate in Science Degree can be obtained upon completion of 60 units, including the required courses in the selected major, and the general education requirements. All courses for this 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 Medical Office and Coding Specialist Certificate of Achievement/Associate Degree will be able to:
1. Apply both coding diagnostic and procedural for insurance billing while demonstrating understanding of medical terminology.
2. Enter patient information into medical software.
3. Keyboard accurately using the proper technique at 45+ wpm.

REQUIRED COURSES . . . . Units
BUS 092 Business Communication 3
BUS 100 Work Readiness 1.5
BUS 181 Business Mathematics 1
CIS 066 Microsoft Word. 3
CIS 073 Microsoft Excel 3
CIS 091 Microsoft Outlook. 1.5
NURS 111 Medical Terminology 3
OCED 090 Occupational Work Experience. 1
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 056 OT 056 Business Grammar and Proofreading . . . 2
OT 059 Medical Keyboarding and
      Computer Applications 3
OT 060 Administrative Medical Assistant 3
OT 061 Health Insurance. 3
OT 063 Introduction to ICD-CM Coding 3
OT 064 Intermediate ICD-CM Coding 3
OT 066 CPT-IV Coding. 3
OT 101 Study of Human Diseases
      for Medical Assistants 3
OT 151 Office Systems & Procedures 3
   Total Units 49

Recommended Electives:
ACCT 180 Introduction to Accounting
CIS 001 Introduction to Computer Science
OR
CIS 050 Microcomputer Applications
CIS 078 Access -Database Management System
CIS 090 Introduction to PowerPoint
MGMT 055 Management/Leadership Skills
OCED 090 Occupational Work Experience

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Office Technology Medical Office and Coding Specialist."

Office Technology

OT 054A   **1.5 Units**
Beginning Keyboarding A
OT 054A is 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 OT 54A if they can meet a minimum of 20 wpm with proper technique. *Three hours lecture (8-week course).*

OT 054B   **1.5 Units**
Beginning Keyboarding B
Prerequisite: OT 054A with a minimum grade of C or instructor consent. OT 054B is 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. *3 hours lecture (8-week course).*

OT 055A   **1.5 Units**
Intermediate Keyboarding/Word Processing A
Prerequisite: PT 054B witha minimum grade of C or instructor recommendation. Course Advisory: CIS 066 with a minimum grade of C. OT 055A is 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. *3 hours lecture (8-week course).*

OT 055B   **1.5 Units**
Intermediate Keyboarding/ Word Processing B
Prerequisite: OT 055A with a minimum grade of C or instructor recommendation. 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. *Three hours lecture (8-week course).*

OT 056   **2.0 Units**
Business Grammar and Proof Reading
Prerequisite: OT 055B with a minimum grade of C or P, or pass the placement test. Course Advisory: SCC minimum English and Math standards. This course is designed to prepare students for professional work in an office with a heavy emphasis on business grammar and proof-reading. Speed will be built to a minimum of 50 words per minute. *Two hours lecture.*

OT 059   **3.0 Units**
Medical Keyboarding And Computer Applications
Prerequisite: Completion of all modules of OT 054 with minimum grade of C or P or passing the OT 059 placement test; and Nursing 111 (may be taken concurrently). Course Advisory: SCC minimum English standard. A medical document processing course. Students will process documents in various medical specialty units including: head and neck, cardiovascular medicine, plastic surgery, allergy/immunology, urology, surgery, oncology, dermatology, and internal medicine. Students will build keyboarding speed and accuracy. *Three hours lecture, two hours lab.*

OT 060   **3.0 Units**
Administrative Medical Assistant
Course Advisory: Eligibility for English 001 and SCC minimum Math standards. This course introduces the student to the responsbilities 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. This course will be offered in the Learning Community for the Medical Front Office Clerk Program. It may also be offered as a course which could be taken in conjunction with the Medical Office Specialist Program. *Three hours lecture.*

Office Technology

OT   061   3.0 Units
Health Insurance
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. Introduces 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 proceedures coding. Teaches the student how to accurately complete a claim. This class is offered as part of the Medical Front Office Clerk Learning Community. If taken as part of the community, students must enroll in all other Learning Community courses. The course may also be offered independently. *Three hours lecture.*

OT   063   3.0 Units
Introduction To ICD-CM Coding
Prerequisite: A minimum grade of C in OT 101 and NURS 111. Course Advisory: SCC minimum English standard. Introductory course in the basic principles of coding disease and procedures using the International Classification of Disease, Clinical Modification (ICD—CM) and ICD—CM coding handbook for entry-level coders. Current ICD—CM books only will be utilized in this course. The impact of coding on reimbursement will be discussed. *Three hours lecture.*

OT   064   3.0 Units
Intermediate ICD-CM Coding
Prerequisite: OT 063 with a minimum grade of C or successful completion of a challenge test. Course Advisory: SCC minimum English standard. This course will build on the previous knowledge gained in OT 063 and address more complex issues related to ICD-CM Coding. Class lectures and practical applications will focus on using actual medical records and applying higher level coding skills. The Prospective Payment System and Diagnosis Related Groups (DRGs) will be introduced. *Three hours lecture.*

OT   066   3.0 Units
CPT-IV Coding
Prerequisite: NURSE 111, OT 101. Course Advisory: SCC minimum English and Math standards. Course that covers the principles and mechanics of coding professional services rendered using the Current Procedural Terminology (CPT-IV) coding system and its relationship to the Health Care Financing Administration Common Procedure (HCPCS) Coding System. *Three hours lecture.*

OT   100   1.0 Unit
Skill Building On The Computer Keyboard
Course Advisory: Ability to touch type at 20 wpm; SCC minimum English and Math standards. 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. *One to three hours lecture (8-week course).*

OT   101   3.0 Units
Study Of Human Diseases For Medical Assistants
Course Advisory: SCC minimum English standard. 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. *Three hours lecture.*

OT   151   3.0 Units
Office Systems & Procedures
Corequisite: One unit of OCED 90. Prerequisite: Typing rate of 50 words per minute and microcomputer word processing skills. Course Advisory: SCC minimum English and Math standards. 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. *Three hours lecture.*

OT   162   1.0 Unit
Ten-Key
Course Advisory: SCC minimum English and Math standards. 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. *Two hours lecture (8-week course).*

Philosophy

Program Description

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.

Associate Degree

Not offered in this discipline

PHIL   001   3.0 Units
Introduction to Critical Thinking and Reasoning
Course Advisory: ENGL 001 or ENGL 062. 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. *Three hours lecture.*

PHIL   003   3.0 Units
Introduction to Philosophy
Course Advisory: ENGL 001 or ENGL 062. 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. *Three hours lecture.*

PHIL   004   3.0 Units
Introduction to Moral Philosophy
Course Advisory: ENGL 001 or ENGL 062. Introduction to moral philosophy and major ethical theories of the Western philosophical tradition. Critical reading and writing are required. *Three hours lecture.*

PHIL   005   3.0 Units
Critical Thinking: The Philosophic
Grounds of Literacy
Prerequisite: ENGL 001. Course Advisory: SCC minimum Math standard. Designed to educate 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. *Three hours lecture.*

PHIL   006   3.0 Units
** Introduction to Political Philosophy**
Course Advisory: ENGL 001 or ENGL 062. 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 written is required. *Three hours lecture.*

Photography

Photography, Professional

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.

Certificate of Achievement and Associate in Science Degree
A Certificate of Achievement can be obtained upon completion of the 28-unit major. The Associate in Science Degree can be obtained by completing a total of 60 units, including the major and the general education requirements. All courses for this 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 Photography, Professional Certificate of Achievement/Associate Degree will be able to:
1. Demonstrate and comprehend the technical components of digital/analog cameras to effectively photograph varied subject matter with visual literacy.
2. Analyze and distinguish creative components of a photograph within its contextual usage (light, composition, impact, etc.) and apply knowledge in producing successful images as they pertaining to the photographic usage, i.e., fine art or applied world.

REQUIRED COURSES . . . . **Units**
PHOT 151 Professional Photography: Introduction 4
PHOT 152 Professional Photography: Portraiture 4
PHOT 153 Professional Photography:
       Product and Advertising 4
PHOT 154 Professional Photography:
       Interior & Exterior. 4
PHOT 156 Portfolio Development. 3
PHOT 070 Beginning Digital Imaging. 3
ART 002 Art History 3
Select three units from List A 3
   Total Units 28

List A - Select 3 units from one of the following . . **Units**
PHOT 030 Photojournalism &
       Documentary Photography. 3
PHOT 031 Intermediate Photography. 3
PHOT 052 Alternative Photography 3
PHOT 056 Photojournalism &
       Documentary Photography. 3
PHOT 071 Digital Imaging 1. 3
PHOT 155 Professional Photography:
       Travel Photography. . . . . 1.5 -3

Recommended Electives . . . . **Units**
ART 011 Survey of Modern Art 3
ART 054 Illustration I 3.5
ART 056 Graphic Design I 3.5
ART 060 Exhibition Design 3.5
CINA 010 The Art of Cinema 3
MKT 171 Introduction to Marketing 3
OCED 090 Occupational Work Experience . . . . 1 - 8
PHOT 035 Art of Photography 3

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Professional Photography."

Photography

Camera equipment for photography classes is not provided by the College. Students registering for these courses must have available a 35 mm camera or equivalent. Material costs are approximately $100 per course.

PHOT 030   3.0 Units
Beginning Photography
Course Advisory: Eligibility for ENGL 001, SCC minimum Math standard and PHOT 035, ART 011. An introduction to black and white film photography. Includes a brief history and discussion of image composition, with special emphasis on darkroom techniques, photographic principles and materials. This course is prerequisite to the Professional Photography program and most other photography courses. Camera equipment for photography classes not provided by the college. SLR 35mm film camera and related materials are required. *Two hours lecture, three hours lab*

PHOT 031   3.0 Units
Intermediate Photography
Prerequisite: PHOT 030 or PHOT 070. Course Advisory: PHOT 035, SCC minimum English and Math standards. This course is designed to further develop a student's basic technical and visual skills with an emphasis on continued visual literacy. Students may work with either film or digital cameras. Camera equipment is not provided by the college. SLR Film or SLR Digital camera is required. *Two hours lecture, three hours activity per week.*

PHOT 035   3.0 Units
The Art of Photography
Course Advisory: ENGL 001, ART 011. Learn to make better photographs through the survey of historical and contemporary photographers as a vehicle for the development of student's own photographs. Camera equipment is not provided by the college. Students registering for this class should have a film or digital camera. Film or digital camera required. *Three hours lecture.*

PHOT 051   0.50 or 1.0 Unit
Photography Laboratory
Corequiste: Concurrent Enrollment in any SCC Photography course excluding PHOT 035. Course Advisory: SCC minimum English and Math standards. Photography laboratory is intended to augment concurrent enrollment in other darkroom, digital, and/or studio courses. The class provides individual assistance with projects requiring special darkroom, lightroom, and/or studio techniques as well as reinforcement of the proper care and maintenance practices of a darkroom, digital, and studio facility. This is an Open Entry/Open Exit, Pass / No Pass only course. Students may take this course up to the maximum number of units over multiple semesters. Formerly PHOT 148. *One and one-half to three hours lab.*

PHOT 052   3.0 Units
Alternative Photography
Prerequisite: PHOT 030 or PHOT 070. Course Advisory: PHOT 035, ART 038, SCC minimum English and Math standards. Students experiment with alternative photographic and non-photographic materials to create visual images and statements. Camera equipment is not provided by the college. SLR Film or SLR Digital camera is required. *Two hours lecture, three hours lab.*

PHOT 056   3.0 Units
Photojournalism and Documentary Photography
Prerequisite: A minimum grade of C in PHOT 030 or PHOT 070. Course Advisory: Eligibility for ENGL 001. Covers aspects of the camera as a editorial, journalistic and documentary tool. Covered are news and feature photography and photographic essays, including composition, impact, and creativity, for newspapers, magazines, Internet and other mass communications media. A camera is not provided by the College for this course. SLR film or SLR digital camera required. C-ID JOUR 160. *Two hours lecture, three hours lab.*

Photography

PHOT 057   **3.0 Units**
Special Projects
Prerequisite: PHOT 052 or advanced class. Courses in special projects that are of historical and contemporary interest. Application through assignments to develop technical skills in subject areas not normally covered in other photography classes. *Two hours lecture, three hours lab.*

PHOT 070   **3.0 Units**
Beginning Digital Photography
Course Advisory: SCC minimum English and Math standards. An introduction to digital photography, including a brief history and discussion of image composition, camera usage, workflow and output options. This course is prerequisite to the Professional Photography program and most other photography courses. Camera equipment is not provided by the college. A SLR digital camera is required. *Two hours lecture, three hours lab.*

PHOT 071   **3.0 Units**
Digital Imaging 1
Prerequisite: PHOT 070. Course Advisory: Eligibility for English 001and SCC minimum Math standards. This course expands on the basic concepts and skills of digital imaging through usage of Lightroom and PhotoShop. Scanning and image editing included. SLR digital camera is required. *Two hours lecture, three hours activity.*

PHOT 072   **3.0 Units**
Digital Imaging II
Prerequisite: PHOT 071. This course expands on the digital concepts and skills of Digital Imaging I through advanced usage of the latest industry software. *Two hours lecture, three hours activity.*

PHOT 099   **1.0 to 3.0 Units**
Photography Honors
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; and permission of the School Dean based on instructor availability. An independent study class designed for students who have taken many of the basic classes and wish to continue work with an instructor in a specialized area. The student works by arrangement with the instructor on an outlined program of study. Students may take this course up to the maximum number of units over multiple semesters. *Three to nine hours by arrangement.*

PHOT 151   **4.0 Units**
Professional Photography: Introduction
Prerequisite: PHOT 030 or PHOT 070. Course *Advisory: Eligibility for English 001 and SCC minimum Math standards.* This course is designed for students who are considering a career in photography. Students will be exposed to the technical and creative possibilities of applied and personal photography. A SLR Film or SLR Digital camera is required. *Two hours lecture, six hours lab.*

PHOT 152   **4.0 Units**
Professional Photography: Portraiture
Prerequisite: PHOT 030 or PHOT 070. Course Advisory: Eligibility for English 001 and SCC minimum Math standards. This course focuses on varied applications of portrait work in the applied and fine art environments. A SLR Film or SLR Digital camera is required. *Two hours lecture, six hours lab.*

PHOT 153   **4.0 Units**
Professional Photography:
Product and Advertising
Prerequisite: PHOT 030 or PHOT 070. Course Advisory: Eligibility for English 001 and SCC minimum Math standards. This course is designed to explore varied film and lighting techniques to execute photographs in the context of advertising. Assignments will vary from studio work to location settings using a wide variety of subjects (food, wine, autos, etc). A SLR Film or SLR Digital camera is required. *Two hours lecture, six hours lab.*

Photography

PHOT   154   **4.0 Units**
Professional Photography: Interior & Exterior
Prerequisite: PHOT 030 or PHOT 070. Course Advisory: Eligibility for English 001 and SCC minimum Math standards. This course provides the student with skills to photograph architecture in the rural and urban landscape. A SLR Film or SLR Digital camera is required. *Two hours lecture, six hours lab.*

PHOT   155   **1.50 to 3.0 Units**
Professional Photography:
Travel Photography
Course Advisory: PHOT 030, 035 or 070; SCC minimum English and Math standards. This course will explore the boundaries of location photography. Lecture/demonstrations are designed to provide technical and creative support for your location project. The final project will encompass the realm of documentary, photojournalistic, editorial and personal work. A SLR Film or SLR Digital camera is required. Student will pay for travel arrangements for this course prior to enrollment. *Eight to nine hours lecture, forty-eight hours activities earns 1.5 units (one-week format) or sixteen to eighteen hours lecture, ninety six hours activities earns 3 units (two-week format).*

PHOT   156   **3.0 Units**
Portfolio Development
Prerequisite: PHOT 151 and one of the following: PHOT 031, 058, 152, 153 or 154. An advanced course designed to serve the student in the preparation of a professional fine art or commercial portfolio. Emphasis is placed on individual direction and personal goals. The student can expect individual consultation by the instructor. A digital or 35 mm analog camera is required. *Two hours lecture, three hours lab.*

Physics

For Physical Education, see Kinesiology

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.

Associate in Science Degree
The Associate in Science Degree can be obtained by completing a total of 60 units, including the 35 - 39-unit major listed below, the general education requirements, and electives. All courses for this 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 Physics Associate Degree will be able to:
1. Demonstrate analytical and problem solving skills.
2. Carry out experiments and critically assess their data.
3. Learn the roles of hypotheses, measurement and analysis in the development of scientific theory as evidenced by laboratory reports.
4. Write a laboratory report or give an oral presentation.

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 5
MATH 021 Analytic Geometry and Calculus II. 5
MATH 023 Differential Equations 4

Biological Science
Course selected from the following list. . . . . 3 - 5
Biological Science:
BIO 002, 003, 005, 006, 012, 014, 015, 016, 018

Physical Science
Course selected from the following list. 3-5
Physical Science:
ASTR 010, 020, 030, 040
CHEM 001, 002, 003, 004, 010, 011
GEOG 001, 001L
GEOL 001, 002, 005
PHSC 012
   Total Units . . . . **35 - 39**

Physics

Associate in Science in Physics for Transfer

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 Physics 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. Physics 006 is a study of mechanics, gravitation, vibration and fluids. In Physics 007, students will cover the topics of electricity, magnetism, wave motion, and sound. In Physics 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.

Associate in Science in Physics for Transfer

The Associate in Science in Physics for Transfer, which aligns with the physics TMC, 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. This preparation for success will be achieved through students mastering the student learning outcomes for individual courses, as well as the outcomes for the overall program.

To earn the Associate in Science in Physics for Transfer degree, students must:

(1) Complete 60 semester units or 90 quarter 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 or 27 quarter 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.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is not an acceptable grade for courses in the major.

Program Outcomes

Students who complete an Associate in Science in Physics degree for transfer will be able to:
1. Demonstrate analytical and problem-solving skills.
2. Carry out experiments and critically assessing the obtained data.
3. Learn the roles of hypotheses, measurement and analysis in the development of scientific theory, as evidenced by laboratory reports.
4. Write a lab report or give an oral presentation

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 5
MATH 021 Analytic Geometry and Calculus II. 5
MATH 022 Analytic Geometry and Calculus III 4

Required Major Total Units 29
CSU General Education or IGETC Pattern Units. . 37 - 39
CSU Transferable Electives
   (as needed to reach 60 transferable units)* 1
   Total Degree Units 60

* 7 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.

Physics

PHYS 002   **5.0 Units**
General Physics (Non-Calculus)
Prerequisite: A minimum grade of C in either MATH 051 or MATH 004. Course Advisory: Eligibility for English 001. PHYS 002 & 004, a two-semester sequence in introductory physics using math through trigonometry, is recommended for teachers, technicians, pre-dentistry, pre-medical, and biology majors, and others who need a general physics course. It 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. C-ID PHYS 105. *Four hours lecture, three hours lab.*

PHYS 004   **5.0 Units**
General Physics (Non-Calculus)
Prerequisite: PHYS 002 with a minimum grade of C. Course Advisory: Eligibility for English 001. PHYS 002 & 004, a two-semester sequence in introductory physics using math through trigonometry, is recommended for teachers, technicians, pre-dentistry, pre-medical, and biology majors, and others who need a general physics course. 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. C-ID PHYS 110. *Four hours lecture, three hours lab.*

PHYS 006   **5.0 Units**
Physics For Science And Engineering
Prerequisite: MATH 021 (may be taken concurrently). Course Advisory: Eligibility for English 001 and Hiigh School Physics, or PHYS 002 with a minimum grade of C. The Physics 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. 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. C-ID PHYS 205. *Four hours lecture, three hours lab.*

PHYS 007   **5.0 Units**
Physics For Science And Engineering
Prerequisite: A minimum grade of C in both PHYS 006 and MATH 021. Course Advisory: Eligibility for English 001. 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. A continuation of PHYS 006, covering the topics of 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. C-ID PHYS 210. *Four hours lecture, three hours lab.*

PHYS 008   **5.0 Units**
Physics For Science And Engineering
Prerequisite: A minimum grade of C in both PHYS 006 and MATH 021. Course Advisory: Eligibility for English 001. The Physics 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. A continuation of PHYS 006 and PHYS 007, covering 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. C-ID PHYS 215. *Four hours lecture, three hours lab.*

PHYS 010   **3.0 Units**
Descriptive Physics
Course Advisory: SCC minimum English standard; MATH 330 or MATH 330B. 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. Written assignments, tests, and a comprehensive final exam will be used to evaluate student success. Field trip may be required. *Three hours lecture.*

Political Science

Associate in Arts in Political Science for Transfer

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.

Associate in Science in Political Science for Transfer
Upon completion of the Associate in Arts in Political Science for Transfer Degree, 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, allowing students to complete baccalaureate degrees in a more timely fashion.

To earn the Associate in Arts in Political Science for Transfer degree, 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 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 Political Science for Transfer degree will be able to:
1. Increase intellectual curiosity and political awareness
2. Acquire an understanding of basic citizenship skills and requisite knowledge
3. Demonstrate competency in the SCC "Core Four" competencies
4. Expand knowledge and understanding of governmental systems and world politics. Apply political science skills to critically analyze and evaluate world governments, political movements and political change
5. Demonstrate reading, writing, and analytical skills necessary to succeed in college, to transfer to four-year institutions, and to increase career and professional opportunities.
6. Develop awareness of cultural, social, political, environmental and economic forces in the US and world and arrive at a higher level of understanding of cultural and political diversity

REQUIRED COURSES . . . . **Units**
PLSC 001 Introduction to American Government
         and Politics 3
Select 3 courses (9 – 10 units) from List A. . . . . 9 – 10
Select 2 courses (6 units) from List B 6

List A – Select 3 courses (9 – 10 units)
PLSC 002 Introduction to Comparative Government. . . . 3
PLSC 006 Basic Concepts in Political Thought. 3
PLSC 003 Introduction to International Politics. 3
OR
IR 001 Global Interdependence 3
MATH 011 Elementary Statistics 4
PLSC 004 Introduction to Political Science. 3

List B – Select 2 courses (6 units)
Any course from List A not already used and/or:
PLSC 005 Constitutional Rights in a
       Multicultural Society 3
PLSC 016 The American Legal System 3
PLSC 019 Human Rights and Sexual Orientation 3
PLSC 049 Political Science Honors . . . . 1 - 3
PLSC 050 Student Leadership 1
Required Major Total Units . . . . 18 - 19
CSU General Education or IGETC Pattern Units . 37 - 39
CSU Transferable Electives
   (as needed to reach 60 transferable units)* . . . . 8 - 17
     Total Degree Units 60

* 6 - 12 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.

Political Science

PLSC 001 3.0 Units
Introduction to American Government and Politics
Course Advisory: Successful completion of English 001 with a minimum grade of C and SCC minimum Math standard. 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. C-ID POLS 110. *Three hours lecture.*

PLSC 002 3.0 Units
Introduction to Comparative Government
Course Advisory: PLSC 001; Successful completion of English 001 with a minimum grade of C; SCC minimum Math standard. 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. C-ID POLS 130. *Three hours lecture.*

PLSC 003 3.0 Units
Introduction to International Politics
Course Advisory: Minimum Standards: ENGL 001 and SCC minimum Math standards. Successful completion of PLSC 001. 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. C-ID POLS 140. *Three hours lecture.*

PLSC 004 3.0 Units
Introduction to Political Science
Course Advisory: ENGL 001 with a minimum grade of C and SCC minimum MATH standard. An introduction to political science designed to familiarize students with basic political concepts, political ideologies, political systems, and subfields within political science. C-ID POLS 150. *Three hours lecture.*

PLSC 005 3.0 Units
Constitutional Rights in a Multicultural Society
Course Advisory: PLSC 001; ENGL 001; SCC minimum Math standard. 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. Satisfies B or E requirements for graduation. *Three hours lecture.*

PLSC 006 3.0 Units
Introduction to Political Philosophy
Course Advisory: ENGL 001 or ENGL 062. 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 method in political inquiry relevant to the life and education of citizens. Critical reading and writing are required. C-ID POLS 120. *Three hours lecture.*

PLSC 016 3.0 Units
The American Legal System
Course Advisory: PLSC 001; ENGL 001; SCC minimum Math standard. 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. *Three hours lecture.*

PLSC 019 3.0 Units
Human Rights and Sexual Orientation
Course Advisory: ENGL 001. 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. *Three hours lecture.*

Political Science

PLSC 048G   **3.0 Units**
Human Rights: A Global Perspective
Course Advisory: Completion of English 001, SCC minimum Math standards. An introduction to the developing systems, laws and norms for the promotion and the protection of human rights in the world today. This course will also provide a foundation for understanding legal, political, and economic aspects of human rights. Topics will include ideological and cultural perspectives; sources of violations; the United Nations, regional, and national systems; women's human rights; and the role of non-governmental organizations. Overall the course will be looking at prevailing concepts, institutions, rules, procedures, problems, and Human Rights potentialities. *Three hours lecture.*

PLSC 049   **1.0 to 3.0 Units**
Political Science Honors
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. 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. *Three to nine hours by arrangement.*

PLSC 050   **1.0 Unit**
Student Leadership
Course Advisory: SCC minimum English and Math standards. A class devoted to the practical application of the governmental process through participation in the student government program. Open to all students. *Two hours activity, one hour by arrangement.*

Psychology

Program Description

The psychology program provides a broad overview of psychology as a science, in particular regard to major theories, methods, and applications. The program emphasizes critical thinking, skeptical inquiry and the scientific approach to understanding behavior and mental processes. In addition, personal, social, and organizational issues are explored using psychological principles.

Associate in Arts Degree

The Associate in Arts Degree can be obtained by completing a total of 60 units, including the 18-unit major, general education requirements and electives. All courses for this 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 Psychology Associate Degree will be able to:

1. Demonstrate an understanding of major theories and applications of psychology.
2. Successfully complete required psychology (major) program courses.

REQUIRED COURSES . . . . **Units**
PSYC 001 Introduction to Psychology. 3
PSYC 002 Biological Psychology 3
PSYC 004 Research Methods in Behavioral Science 3
Choose 9 units from the list of electives 9
    Total Units **18**

Electives

Choose three courses (9 units) from the following list of courses

PSYC 005 Abnormal Psychology 3
PSYC 006 Developmental Psychology 3
PSYC 007 Cross-Cultural Psychology 3
PSYC 010 Psychology of Women 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 051 Introduction to Human Services. 3

Psychology

Associate in Arts in Psychology for Transfer

Program Description
The psychology program provides academic instruction in basic psychological concepts, theories, terminology, and research methods, and promotes life skills, personal growth, and interpersonal effectiveness.

Associate in Arts in Psychology for Transfer
The Associate in Arts in Psychology for Transfer is especially appropriate for students who plan to complete a bachelor's degree in Psychology at a CSU campus. Students completing an ADT 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 ADT 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 this ADT degree, 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 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 Psychology for Transfer degree will be able to:
1. Demonstrate an understanding of psychology as a science, in regard to major theories, methods and applications.
2. Successfully complete the required psychology (major) program

REQUIRED COURSES . . . . **Units**
PSYC 001 Introduction to Psychology. 3
PSYC 004 Research Methods in Behavioral Science 3
MATH 011 Elementary Statistics 3
Select one course from List A 3-4
Select one course from List B 3
Select one course from List C 3

List A (Select one course) . . . . **Units**
PSYC 002 Biological Psychology 3
BIO 015 Introduction to Biology. 4
BIO 016 Introduction to Human Biology 3

List B (Select one course). . . . . **Units**
PSYC 002 Biological Psychology 3

List C (Select one course)
PSYC 005 Abnormal Psychology 3
PSYC 006 Developmental Psychology 3
PSYC 007 Cross-Cultural Psychology 3
PSYC 010 Psychology of Women 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
   Total Units **19-20**

CSU General Education or IGETC Pattern Units . **37 - 39**
CSU Transferable Electives
   (as needed to reach 60 transferable units)* . . . . **10 - 19**
   Total Degree Units **60**

* 9 - 15 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.

Psychology

PSYC   001   **3.0 Units**
Introduction to Psychology
Course Advisory: Eligibility for English 001and SCC minimum Math standards. An 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. C-ID PSY 110. *Three hours lecture.*

PSYC   002   **3.0 Units**
Biological Psychology
Prerequisite: PSYC 001 with a minimum grade of C. Course Advisory: Eligibility for ENGL 001 and SCC minimum Math standards. Presents the relationship of genetic and physiological factors to behavior. Topics include neural mechanisms underlying sensory and perceptual processes, emotions, motivation, mental disorders, states of consciousness, learning and memory. C-ID PSY 150. *Three hours lecture.*

PSYC   004   **3.0 Units**
Research Methods in Behavioral Science
Prerequisite: A minimum grade of C in both PSYC 001 and MATH 011. Course Advisory: Eligibility for English 001. Introduction to basic 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. C-ID PSY 200. *Three hours lecture.*

PSYC   005   **3.0 Units**
Abnormal Psychology
Prerequisite: PSYC 001. Course Advisory: ENGL 062, eligibility for English 001, and SCC minimum Math standard. Theoretical approaches to the explanation of psychological disorders. Survey of selected disorders in DSM IV, including psychoses, anxiety disorders, and depression. Survey of major therapeutic methods. *Three hours lecture.*

PSYC   006   **3.0 Units**
Developmental Psychology
Course Advisory: Eligibility for English 001, SCC minimum Math standard, and PSYC 001. The course is a 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. *Three hours lecture.*

PSYC   007   **3.0 Units**
Cross-Cultural Psychology
Course Advisory: A minimum grade of C in ENGL 001, MATH 320, and PSYC 001. An overview of cross-cultural psychology with a critical and comparative study of psychological topics such as ethnicity, gender, emotion, personality, health, cognition, social interaction. Emphasis is on discussion of contemporary and historical research on the influence of culture on human mind and behavior. Various ethnic populations within the United States will be examined. Students will examine cultural values and individual beliefs in the context of this class through service learning and field trips. A service learning component of eight to ten hours/semester and field trips (1-2) may be part of the course. *Three hours lecture.*

PSYC   010   **3.0 Units**
Psychology of Women
Course Advisory: PSYC 001. Study of contemporary women from a biological, psychological and sociological perspective. Theory and research pertaining to female development will be presented and critically examined. Open to all students. *Three hours lecture.*

PSYC   020   **3.0 Units**
Personal and Social Behavior
Course Advisory: SCC minimum English and Math standards. 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, relationship, careers and personal growth. *Three hours lecture.*

Psychology

PSYC   030   **3.0 Units**
Introduction to Social Psychology
Course Advisory: PSYC 001; Eligibility for English 001 and SCC minimum Math standard. This course will 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. *Three hours lecture.*

PSYC   034   **3.0 Units**
Human Sexual Behavior
Course Advisory: SCC minimum English standard. 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. *Three hours lecture.*

PSYC   040   **3.0 Units**
Drugs, Society and Behavior
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. The course will cover 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. *Three hours lecture.*

PSYC   049   **1.0 to 3.0 Units**
Psychology Honors
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. 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. *Three to nine hours by arrangement.*

Real Estate

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.

Certificate of Achievement and Associate in Science Degree
A Certificate of Achievement can be obtained by completing the 24-unit major. The Associate in Science degree can be obtained by completing 60 units, including the major, general education requirements, and electives. The major consists of 18 units selected from the courses listed below plus 6 units selected from the list of recommended electives which have been approved by the California Department of Real Estate. All courses for this 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 Real Estate Certificate of Achievement/Associate Degree 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. Students will 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 171 Real Estate Economics 3
OR
ECON 001 Principles of Economics (Macroeconomics) . . 3
OR
ECON 002 Principles of Economics (Microeconomics) . . 3
RE 172 Real Estate Practice 3
RE 173 Legal Aspects of Real Estate 3
RE 174 RE Finance 3
RE 175 Principles of Appraisal 3
Electives selected from the list of
    Recommended Electives 6
    Total Units 24

Select 6 units from this list of Recommended Electives:
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

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Real Estate."

Real Estate

RE   164   3.0 Units
Real Estate Principles
Course Advisory: SCC minimum English and Math standards. 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. *Three hours lecture.*

RE   171   3.0 Units
Real Estate Economics
Course Advisory: SCC minimum English and Math standards. 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. *Three hours lecture.*

RE   172   3.0 Units
Real Estate Practice
Course Advisory: SCC minimum English and Math standards. 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 course for continuing education as required by the Department of Real Estate. *Three hours lecture.*

RE   173   3.0 Units
Legal Aspect of Real Estate
Course Advisory: SCC minimum English and Math standards. Comprehensive study and analysis of California law as applied to the legal problems involved in real estate transactions. Includes contract, agency, and finance devices. *Three hours lecture.*

RE   174   3.0 Units
Real Estate Finance
Course Advisory: SCC minimum English and Math standards. Comprehensive study and analysis of money markets, interest rates, and financing as applied to real estate transactions. *Three hours lecture.*

RE   175   3.0 Units
Principles of Appraisal
Course Advisory: SCC minimum English and Math standards. 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. *Three hours lecture.*

RE   176   3.0 Units
Advanced Residential Appraisal Practice
Prerequisite: RE 175. Course Advisory: SCC minimum English and Math standards. Advanced appraisal course covering the principles, procedures and techniques needed to appraise all types of residential properties up to four units. The contents include: 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). Student will appraise a custom home, a condominium and a small income residential property. *Three hours lecture.*

RE   177   3.0 Units
Income Property Appraisal and Analysis
Prerequisite: RE 175. Advanced appraisal course covering the principles, procedures and techniques needed to appraise commercial property, including large apartment buildings. The course content 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. *Three hours lecture.*

Science, General

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, physics, geology, or health sciences. This program is a path for immediate entry into science-based technology careers.

Associate in Arts Degree
The Associate in Arts Degree can be obtained by completing a total of 60 units, including a minimum of 18 units in the major, the general education requirements, and electives. The major consists of courses selected from the lists below and must include twelve (12) units in courses with laboratory work and at least one course in each of the areas Biological Science and Physical Science. All courses for this 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 Science, General Associate Degree will be able to:
    1. Demonstrate analytical and/or conceptual problem solving skills.
    2. Carry out experiments and critically assess their data.
    3. Learn the role of hypotheses, measurement and analysis in the development of scientific theory as evidence by laboratory reports.
    4. Learn how to write a laboratory report or give an oral presentation.

BIOLOGICAL SCIENCE
BIO 002 * Principles of Cell and Molecular Biology
BIO 003 * Evolution, Ecology & Biodiversity
BIO 004 * Human Anatomy
BIO 005 * Introductory Physiology
BIO 012 Environmental Science
BIO 012L * Environmental Science Laboratory
BIO 014 Principles of Microbiology
BIO 015 * Introduction to Biology
BIO 016 Introduction to Human Biology
BIO 016L* Human Biology Laboratory
BIO 018 Biology of Sex
BIO 019 * Marine Biology
ANTH 001 Physical Anthropology

PHYSICAL SCIENCE
ASTR 010 General Astronomy
ASTR 020 * Astronomy Laboratory
ASTR 030 The Solar System
ASTR 040 Stars, Galaxies, and Cosmology
CHEM 001 * General Chemistry
CHEM 002 * General Chemistry
CHEM 003 * Organic Chemistry I
CHEM 004 * Organic Chemistry II
CHEM 010 * Intermediate Chemistry
CHEM 011 * Basic Organic Chemistry and Biochemistry
CHEM 051 Chemistry for the Health Sciences
GEOG 001 Physical Geography
GEOG 001L * Physical Geography Laboratory
GEOL 001 Physical Geology
GEOL 002 * Geology Laboratory
GEOL 005 Geology of California
PHSC 012 * Introduction to Principles of Physical Science
PHYS 002 * General Physics (Non-Calculus)
PHYS 004 * General Physics (Non-Calculus)
PHYS 006 * Physics for Science and Engineering
PHYS 007 * Physics for Science and Engineering
PHYS 008 * Physics for Science and Engineering
PHYS 010 Descriptive Physics
Laboratory Class

Science, General

Associates in Arts in Geography for Transfer

Program Description
Solano Community College offers an Associate in Arts in Geography for Transfer degree to introduce students to principles, theory, and applied methods of spatial analysis in studying both the natural and human environment. The Associate in Arts in Geography for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in Geography or similar major. 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. Recipients of the Associate in Arts for Transfer degree are guaranteed admission with junior standing at a campus of the California State University system. 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.

Associates in Arts in Geography for Transfer
The Associate in Arts in Geography for Transfer degree is especially designed for students who plan to complete a bachelor's degree in Geography at a CSU campus. Students completing an Associate in Arts in Geography 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 Associate in Arts in Geography for Transfer degree 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 degree, which aligns with the Geography TMC, will prepare students for a baccalaureate degree in Geography at a CSU institution. Geography 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 degree, 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 Requirements.
   b. A minimum of 18 semester units or 27 quarter 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 Geography for Transfer degree 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 002L Physical Geography Laboratory 1
GEOG 002 Cultural Geography 3
Select 2 – 3 courses (6 – 9 units) from List A . . . . 6 – 9
Select 2 courses (6 units) from List B 6

List A (Select 6-9 units). . . . . Units
GEOG 004 World Geography 3
GEOG 006 California Geography 3
GEOG 010 Introduction to
            Geographic Information Systems 3

List B (Select 6 units) . . . . Units
ANTH 002 Cultural Anthropology. 3
GEOL 001 Physical Geology 3

Required Major Total Unit 19-22
CSU General Education or IGETC Pattern Units. . 37 - 39
CSU Transferable Electives
   (as needed to reach 60 transferable units)* . . . . 15 - 17
   Total Degree Units 60

* 13 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern.
Consult with a counselor for more information.

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Science, General

Astronomy

ASTR   010   **3.0 Units**
General Astronomy
Course Advisory: Eligibility for English 001; SCC minimum Math standard. 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. *Three hours lecture.*

ASTR   020   **1.0 Unit**
Astronomy Laboratory
Prerequisite: ASTR 010, 030, or 040 (courses may be taken concurrently). Course Advisory: Eligibility for English 001, SCC Minimum Math standard. Students will gain familiarity with the sky, telescopes, and other astronomical equipment. They will do experiments in Physics related to Astronomy. Topics will cover the moon, planets, stars, galaxies, and cosmology. Field trips may be required. *Three hours lab.*

ASTR   030   **3.0 Units**
The Solar System
Course Advisory: Eligibility for English 001; SCC minimum Math standard. 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 trips may be required. *Three hours lecture.*

ASTR   040   **3.0 Units**
Stars, Galaxies, And Cosmology
Course Advisory: Eligibility for English 001; SCC minimum Math standard. An introductory study of stars, galaxies, the universe, and the physics related to these topics. This includes an examination of the facts relating to the sun, stellar lifetimes, supernovae, black holes, and cosmology. Field trip may be required. *Three hours lecture.*

Geography

GEOG   001   **3.0 Units**
Physical Geography
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. This course is 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. C-ID GEOG 110. *Three hours lecture.*

GEOG   001L   **1.0 Unit**
Physical Geography Laboratory
Prerequisite: GEOG 001 with a minimum grade of C (may be taken concurrently). Course Advisory: Eligibility for ENGL 001 and SCC minimum Math standards. This course is 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. *Three hours lab.*

GEOG   002   **3.0 Units**
Cultural Geography
Course Advisory: Eligibility for English 001. This course is a study of diverse human populations, their cultural origins, diffusion and contemporary spatial expressions. Topics include: demography, languages and religions, urbanization and landscape modification, political units and nationalism, and economic systems and development. A field trip may be required. However, if the student cannot attend the field trip, there will be an optional research paper assignment. C-ID GEOG 120. *Three hours lecture.*

GEOG 004   **3.0 Units**
World Geography
Course Advisory: Eligibility for English 001. 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. C-ID GEOG 125. *Three hours lecture.*

GEOG 006   **3.0 Units**
California Geography
Course Advisory: Eligibility for English 001. 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. C-ID GEOG 140. *Three lecture hours.*

GEOG 010   **3.0 Units**
Introduction to Geographic Information Systems
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. Basic computer literacy is desirable. 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 as GEOL 010. Not open to students who have completed GEOL 010. Field trips may be required. C-ID GEOG 155. *Three hours lecture.*

Geology

GEOL 001   **3.0 Units**
Physical Geology
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. 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. C-ID GEOL 100. *Three hours lecture.*

GEOL 002   **1.0 Unit**
Geology Laboratory
Prerequisite: GEOL 001 or 005 (either course may be taken concurrently). Course Advisory: SCC minimum English and Math standards. 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. C-ID GEOL 100L. *Three hours lab.*

GEOL 005   **3.0 Units**
Geology Of California
Course Advisory: Eligibility for ENGL 001 and SCC minimum math standard. An introductory course on the geology of California covering its geologic provinces, minerals (including gold), rocks, geologic hazards including earthquakes, and the development of scenic landscapes. Field trips will be taken to areas of geologic interest. A field trip report will be required. However, if a student cannot attend the trip, there will be an optional research paper assignment. *Three hours lecture.*

GEOL 010   **3.0 Units**
Introduction To Geographic Information Systems
Course Advisory: Eligibility for English 001 and SCC minimum Math standards. Basic computer literacy is desirable. 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 as GEOG 010. Not open to students who have completed GEOG 010. C-ID GEOG 155. *Three hours lecture.*

Science, General

GEOL 049   **1.0 to 3.0 Units**
Geology Honors
Prerequisite: Completion of 24 units of college credit with a minimum GPA of 3.0; completion of GEOL 001, GEOL 005, or GEOL 010 with a minimum grade of B; an ability to work independently; and permission of the School Dean based on instructor availability. Course Advisory: Eligibility for English 001. 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. *Three to nine hours by arrangement.*

Physical Science

PHSC 012   **4.0 Units**
Introduction to the Principles of Physical Science
Course Advisory: Eligibility for ENGL 001; SCC minimum Math standard. An 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. This is a general education course in the physical science area for non-science majors that satisfies the physical science requirement for most universities and colleges. Field trips may be required. *Three hours lecture, three hours lab.*

Social Sciences

Program Description
This program offers students the opportunity to study aspects of the human experience and the intricate relationship among them.

Associate in Arts Degree
The Associate in Arts Degree can be obtained by completing a total of 60 units, Including the 18-unit major, general education requirements and electives. The 18-unit major is composed of courses selected from six subject areas shown below. All courses for this 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 Social Sciences Associate Degree will be able to:
1. Be aware of the social and cultural aspects of human behavior.
2. Understand the relationship between individual/self, society and others
3. Demonstrate understanding regarding diverse individuals and groups in society.
4. Understand diverse groups and the social and cultural aspects of relationships
5. Think, read, and write critically with respect to the social sciences.
6. Apply the knowledge and skills to life experience, including employment, social and individuals.
7. Understand the purpose and value of social sciences across the curriculum.
8. Major in the Social Science field.

REQUIRED COURSES . . . . **Units**

ANTH 001 Physical Anthropology 3
OR
ANTH 002 Cultural Anthropology 3
ECON 001 Principles of Economics (Macroeconomics) . . 3
GEOG 001 Physical Geography 3
OR
GEOG 002 Cultural Geography 3
OR
GEOG 004 World Geography 3
Any History OR American Studies Course 3
PLSC 001 Introduction to American Government
        and Politics 3

OR
PLSC 006 Basic Concepts in Political Thought. 3
OR
PLSC 016 The American Legal System 3
PSYC 001 Introduction to Psychology. 3
OR
SOC 001 Introduction to Sociology 3
OR
Any Social Science Ethnic Studies course that
    is not used to complete the above. 3
    Total Units 18

SOCS   022   **3.0 Units**
Ethnic, Racial, & Minority Group Relations in Harmony & Conflict
Course Advisory: SCC minimum English standard.
Examination of the historical, economic, psychological, and sociological aspects of majority-minority group relationships (ethnic, racial and gender) in the United States and selected cross-cultural situations. *Three hours lecture.*

SOCS   023   **3.0 Units**
The African-American Family
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. Analyze theory and research dealing with the modern African-American family, its structure, and functions. Course survey will include an examination of the historical changes, differing family patterns, and influences of contemporary society as it impacts the African-American family. Social policies will also be examined. *Three hours lecture.*

Social Sciences

SOCS 025 3.0 Units
Mexican-American Experience
Course Advisory: SCC minimum English standard.
Interdisciplinary examination of the historical, economic, psychological, and sociological aspects of the Mexican-American experience. *Three hours lecture.*

SOCS 027 3.0 Units
Native American Experience
Course Advisory: ENGL 001; SCC minimum Math standard. Introduction to the diverse cultures of the Native American people of North, Central and South America. Emphasis is on Native American voices in the expression of cultural views and in the experience of conflicting values. *Three hours lecture.*

SOCS 028 3.0 Units
Introduction to African Studies
Course Advisory: Eligibility for ENGL 001 and SCC minimum Math standard. Introduction to African studies, including African history, political development, culture and literature, economic issues and Africa's role in world affairs. *Three hours lecture.*

SOCS 030 3.0 Units
Peace, Non Violence and Conflict Resolution
Course Advisory: Eligibility for English 001. Introduces the student to the study of peace, non violence 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. *Three hours lecture.*

SOCS 049 1.0 to 3.0 Units
Social Science Honors
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. Independent study designed for honor students who intend to major in social sciences. Students may take this course up to the maximum number of units over multiple semesters. *Three to nine hours by arrangement.*

SOCS 051 3.0 Units
Mediation
Course Advisory: Eligibility for English 001. Introduces the student to the study of Mediation. This course is designed to provide students with the framework and analytical skills needed to conduct mediation. Emphasis is placed on the mediation process, the role of the mediator, communication skills and listening skills and the human dynamics of conflict. Mediation is a process by which parties submit their dispute to a neutral third party who works with them to reach a mutually agreeable settlement of their dispute. This course is beneficial for those persons pursuing Human Services, Business, Social Services, Speech and other majors that require analytical communication skills. The mediators role is to assist disputing parties in reaching peaceful resolutions to conflict. *Three hours lecture.*

SOCS 053 3.0 Units
Civil Rights, Non- Violence and Race Relations
Course Advisory: SCC minimum English and Math standards. The Civil Rights Movement is one of the most significant sources of social change in the United States during the 20th century. This is a travel study course that will analyze the structure and dynamics of the Civil Rights Movement from a Social Science perspective. Students will be required to pay for the cost of travel. *Sixteen hours lecture, twenty-four hours activity (2-week course)*

SOCS 053A 3.0 Units
Civil Rights, Non-Violence and Race Relations South
Course Advisory: SCC minimum English and Math standards. The Civil Rights Movement is one of the most significant sources of social change in the United States during the 20th century. This is a travel study course that will analyze the structure and dynamics of the Civil Rights Movement in the Southern United States from a Social Science perspective. Students will be required to pay for the cost of travel. *Sixteen hours lecture, twenty-four hours lab (2-week course).*

Social Sciences

SOCS   053B   3.0 Units
Social Movements, Civil Rights,
and Non-Violence
The Civil Rights Movement is one of the most significant sources of social change in the United States during the 20th century. This is a travel study course that will analyze the structure and dynamics of the Civil Rights and other Social Movements in the United States from a Social Science perspective. This course analyzes the structure and dynamics of Social Movements including: Civil Rights Movement, Voting Rights, Harlem Renaissance, Integration, Women's Suffrage Movement, and War on Poverty, United Farm Workers Movement, Vietnam War Protests, and Political Structures from a Social Science perspective. Close attention will be paid to the roles of organizations, educational institutions, resources, leadership, recruitment, commitment, values, ideology, political culture, gender, and counter-movements. Students will have the option of traveling virtually. Students will be required to pay for the cost of travel. 2-week course. *Sixteen hours lecture, twenty-four hours lab.*

Sociology

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.

Associate in Arts Degree
The Associate in Arts Degree can be obtained by completing a total of 60 units, including the 18 - 19-unit major, general education requirements and electives. The 18 - 19-unit major is composed of courses selected from the three (3) subject areas shown below. All courses for this 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 Sociology Associate Degree will be able to:
1. Have a basic knowledge of the history of the development of sociology as a separate discipline.
2. Become more aware of cultural, social, political, environmental, and economic forces within the world they live.
3. Critically think, in addition to increase reading, writing and basic research skills.

REQUIRED COURSES . . . . **Units**
PSYC 004 Research Methods in Behavioral Science 3
SOC 001 Introduction to Sociology 3
SOC 002 Social Issues and Problems 3
Select six units from Selection One 6
Select at least three units from Selection Two . . . . 3 - 4
    Total Units . . . . **18 – 19**

Selection One: Select 6 units from the following:
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

Selection Two: Select at least 3 units from the following:
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
SOCS 022 Ethnic, Racial and Minority Group
        Relations in Harmony and Conflict 3

Recommended Electives:
CDFS 052 Issues In Aging
ENGL 012 Modern Women Writers
ENGL 036 Multi-Ethnic Literature in America
GEOG 002 Cultural Geography
IR 001 Global Interdependence
PHIL 001 Introduction to Critical Thinking and Reasoning
SOCS 030 Peace, Non Violence and Conflict Resolution
SOC 049 Sociology Honors

Sociology

Associate in Arts in Sociology for Transfer

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.

Associate in Arts in Sociology for Transfer
The Associate in Arts for Transfer (AA-T) in Sociology is intended for students who plan to complete a bachelor's degree in Sociology at a CSU campus. Students completing this degree (AA-T in Sociology) are guaranteed admission to the CSU system, but not to a particular campus or major.

To earn the Associate in Arts in Sociology for Transfer degree, student must:
1. 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 Sociology for Transfer degree will be able to:
1. To prepare students to become more aware of cultural, social, political, environmental, and economic forces within the world they live.
2. To help students to raise their ethnic consciousness to a higher level of understanding and acceptance.
3. To educate the students' skills in critical thinking, reading and writing.
4. To improve the students' 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
Select 6-7 units from Area 1 . . . . 6 - 7
Select 6 units from Area 2 6
Select 3 units from Area 3 3

Area 1 - Select 6-7 units from the following: . . . . . . Units
SOC 002 Social Issues and Problems 3
PSYC 004 Research Methods in Behavioral Science 3
MATH 011 Elementary Statistics 4

Area 2 - Select 6 units from the following . . . . Units
SOC 030 Introduction to Social Psychology 3
SOC 040 Sociology of the Family 3
SOCS 022 Ethnic, Racial and Minority Group
        Relations in Harmony and Conflict. 3

Area 3 - Select 3 units from the following . . . . Units
SOC 045 Sociology of Religion 3
SOC 075 Introduction to Sociology of Sport. 3
SOC 049 Sociology Honors . . . . 1 - 3
SOCS 030 Peace, Non Violence and
        Conflict Resolution. 3

Required Major Total Units . . . . 18 - 19
CSU General Education or IGETC Pattern Units . 37 - 39
CSU Transferable Electives
(as needed to reach 60 transferable units)* . . . . 11 - 14
    Total Degree Units 60

* 9 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.

Sociology

SOC 001   **3.0 Units**
Introduction to Sociology
Course Advisory: Eligibility for English 001. 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. C-ID SOCI 110. *Three hours lecture.*

SOC 002   **3.0 Units**
Social Issues and Problems
Course Advisory: SOC 001, Eligibility for English 001. 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. *Three hours lecture.*

SOC 023   **3.0 Units**
Sociology of African Americans
Course Advisory: SOC 001 or SOC 022; Eligibility for English 001. An introductory sociological study of African Americans. Emphasis will be on culture, community, social institutions, social relationships and social problems. *Three hours lecture.*

SOC 030   **3.0 Units**
Introduction to Social Psychology
Course Advisory: PSYC 001; Eligibility for English 001 and SCC minimum Math standard. This course will 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 PSYC 030. *Three hours lecture.*

SOC 040   **3.0 Units**
Sociology of the Family
Course Advisory: SOC 001 and Eligibility for English 001. A comparative cultural view of the family, the history of the family and its present role in our society with special emphasis on kinship relations, sex roles, ethnic variations of the family and alternative family styles. *Three hours lecture.*

SOC 045   **3.0 Units**
Sociology of Religion
Course Advisory: Eligibility for English 001. 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. *Three hours lecture.*

SOC 049   **1.0 to 3.0 Units**
Sociology Honors
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. 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. *Three to nine hours by arrangement.*

SOC 075   **3.0 Units**
Introduction to Sociology of Sport
Course Advisory: SCC minimum English and Math standards; SOC 001. Sociology of Sport 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. *Three hours lecture.*

Theatre Arts

For Speech see Communication Studies

Program Description
This program is designed to provide a foundation in theater arts for the student who wishes to enter the entertainment industry. Students may choose from two emphasis areas —Acting and Technical.

Associate in Arts Degree
The Associate in Arts Degree in Theatre Arts can be obtained by completing a total of 60 units, including the 18-unit major in one of the emphasis areas listed below, the general education requirements, and electives. All courses for this 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 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.
3. Demonstrate comprehension of technical and artistic production elements including
4. Stagecraft, scenery, costumes, lighting and sound.

ACTING EMPHASIS . . . . Units
THEA 003 Stagecraft 3
THEA 004 Stage Movement 2
THEA 010 History of Theatre 1 3
THEA 011 History of Theatre 2. 3
Select 6 units from Selection One and
    select 1 unit from any course in Selection Two 7
    Total Units 18

Selection One:
    Select 6 units in the following. . . . . Units
THEA 001 Acting 1. 3
and
THEA 002 Acting 2. 3

Selection Two:
    Select 1 unit in any of the following . . . . Units
THEA 005 Applied Drama. . . . . 2 - 3
THEA 047 Technical Production . . . . 1 - 3

TECHNICAL EMPHASIS . . . . Units
THEA 001 Acting 1. 3
THEA 003 Stagecraft 3
THEA 010 History of Theatre 1 3
THEA 011 History of Theatre 2. 3
THEA 020 Introduction to Stage Lighting 3
THEA 047 Technical Production. 3
    Total Units 18

Recommended Elective:
THEA 013 Diversity in American Theatre:
    A Contemporary Focus
OCED 070 Occupational Soft Skills

Theatre Arts

Associate in Arts in Theatre for Transfer

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. courses offered in the UC and CSU system. The Associate in Arts in Theatre for Transfer provides the academic and practical experience that will prepare students for a career in the Theatre industry, or to transfer into the CSU system to complete a bachelor's degree in Theatre.

Associate in Arts Degree
The Associate in Arts in Theatre for Transfer (A.A.-T) is intended for students who plan to complete a bachelor's degree in performance theatre or technical theatre. Students completing this degree (A.A.-T in Theatre) are guaranteed admission to the CSU system, but not to a particular class or major.

To earn this AA-T degree, 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 Requirements.
   b. Completion of 18-19 semester units for the Associate in Arts in Theatre for Transfer degree.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes
Students who complete the Associate in Arts in Theatre Arts for Transfer degree 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 arts persuasively and thoroughly.

REQUIRED COURSES . . . . **Units**
THEA 006 Introduction to Theatre. 3
THEA 001 Acting 1 3
Select 3-4 units from Performance/
    Production Course list. 3-4
Three courses (9 units) from List A 9

Performance/Production Courses (select 3-4 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. 4
THEA 047A Technical Theatre in Production – Comedy . 3
THEA 047B Technical Theatre in Production – Drama. . . 3
THEA 047C Technical Theatre in Production – Classical . 3
THEA 047D Technical Theatre in Production – Musical. . 3

List A (Select 3 courses – 9 units). . . . . **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
THEA 032B Fundamentals of Costume Design –
        Drama 3
THEA 032C Fundamentals of Costume Design –
        Classical 3
THEA 032D Fundamentals of Costume Design –
        Musical. 3

Required Major Total Units . . . . **18 - 19**
CSU General Education or IGETC Pattern Units . **37 - 39**
CSU Transferable Electives
    (as needed to reach 60 transferable units)* . . . . . . **4 - 9**
        Total Degree Units **60**

* 3 - 6 units may be double counted toward both the major area of emphasis and CSU General Education or IGETC Pattern. Consult with a counselor for more information on completing this degree.

Theatre Arts

THEA   001   **3.0 Units**
Acting 1
Course Advisory: Eligibility for English 001. This course 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. C-ID THTR 151. *Three units lecture.*

THEA   002   **3.0 Units**
Acting 2
Prerequisite: THEA 001 with a minimum grade of C. Course Advisory: Eligibility for English 001 and SCC minimum Math standard. 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. C-ID THTR 152. *Three hours lecture*

THEA   003   **3.0 Units**
Stagecraft
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. An 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. C-ID THTR 171. *Two hours lecture, three hours lab.*

THEA   005   **2.0 to 3.0 Units**
Applied Drama
Prerequisite: Audition for actors only. *Course Advisory: SCC minimum English standard.* The study and rehearsal of dramatic, comedic and musical works for the stage which includes: classical plays, contemporary dramas and comedies, revues, poetry presentations and one-acts. Students participate as actors, ensemble members and/or accompanists. This is an Open Entry/Open Exit course. *Two unit option requires nineteen and one-third hours lab, three unit option requires an additional nine and one-half hours. (5-week course).*

THEA   006   **3.0 Units**
Introduction to Theatre
Course Advisory: Concurrent enrollment in or successful completion of English 001, and SCC minimum math standards. This course 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. C-ID THTR 111. *Three hours lecture.*

THEA   008   **3.0 Units**
Stage Make-Up
Course Advisory: Eligibility for English 001. Students will receive instruction and practice in a lecture/laboratory setting in all phases of makeup specifically designed for theatrical use. C-ID THTR 175. *Two hours lecture, three hours activity.*

THEA   009   **3.0 Units**
Script Analysis
Course Advisory: Successful completion of (minimum grade of C) or concurrent enrollment in English 001. 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. C-ID THTR 114. *Three hours lecture.*

THEA   010   **3.0 Units**
Theatre History 1
Course Advisory: Successful completion of English 001 and SCC minimum Math standards. 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. *Three hours lecture.*

Theatre Arts

THEA 011   **3.0 Units**
Theatre History 2
Course Advisory: Successful completion of English 001 and SCC minimum Math standard. 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. Field trip may be required. *Three hours lecture.*

THEA 013   **3.0 Units**
Diversity in American Theatre:
A Contemporary Focus
Course Advisory: Eligibility for English 001 and SCC minimum Math standard. 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. *Three hours lecture.*

THEA 020   **3.0 Units**
Introduction to Stage Lighting
Course Advisory: SCC minimum English and Math standards. This course involves the study and execution of stage lighting with an emphasis on equipment, control, color and their relationship to design. This course discuss the methods and materials utilized in designing lighting for the stage. Focus on the practical skills needed to complete a light design project. C-ID THTR 173. *Two hours lecture, three hours lab.*

THEA 021   **3.0 Units**
Introduction to Theatre Design
Course Advisory: Successful completion of English 001 with a minimum grade of C and SCC minimum Math standards. Prerequisite: THEA 003 with a minimum grade of C. 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. C-ID THTR 172. *Two hours lecture, three hours lab.*

THEA 024A   **4.0 Units**
Rehearsal and Performance
in Production - Comedy
Course Advisory: SCC minimum English standard. This course provides 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 THTR 191. *Three hours activity, seventeen hours by arrangement (10- week course).*

THEA 024B   **4.0 Units**
Rehearsal and Performance
in Production - Drama
Course Advisory: SCC minimum English standard. This course provides 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. C-ID THTR 191. *Three hours lab, sixteen hours by arrangement (10-week course).*

THEA 024C   **4.0 Units**
Rehearsal and Performance
in Production - Classical
Course Advisory: SCC minimum English standard. This course provides 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. C-ID THTR 191. *Three hours lab, sixteen hours by arrangement (10 week course).*

Theatre Arts

THEA 024D   **4.0 Units**
**Rehearsal and Performance
in Production - Musical**
Course Advisory: SCC minimum English standard. This course provides 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. C-ID THTR 191. *Three hours lab, seventeen hours by arrangement (10-week course).*

THEA 032A   **3.0 Units**
Fundamentals of Costume Design - Comedy
Course Advisory: Eligibility for English 001. Students will study comic costume history, design, and construction techniques as an introduction to comedy costuming. Fabrics and their various uses will also be investigated. Students will learn how to design and construct costumes for comedy performances with multiple costume changes. Students will also learn how stock characters and their costumes support an exaggerated theme. Each student will be given an increasing level of responsibility 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. C-ID THTR 174. *One hour lecture, six hours lab.*

THEA 032B   **3.0 Units**
Fundamentals of Costume Design - Drama
Course Advisory: Eligibility for English 001. This is a practicum course that covers the fundamentals of costume construction and its integration into the theatre process. In this course, students will focus their studies on costumes for realistic drama. This will include drama history, design, and construction. Fabrics and their various uses will also be investigated. Students will learn how to design and construct costumes for drama performances with multiple costume changes. Students will also learn how realistic characters and their costumes support a drama's theme. Each student will be given an increasing level of responsibility 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. Repeatable to a maximum of 12 unit, including initial enrollment. C-ID THTR 174. *One hour lecture, six hours lab.*

THEA 032C   **3.0 Units**
Fundamentals of Costume Design - Classical
Course Advisory: Eligibility for English 001. Students will learn how to research costuming from historical Western eras such as: Greek, Roman, Medieval, and the Renaissance. Students will also study ancient Eastern, African, or other historical costumes, depending upon the semester's theatre production. Tailoring, heirloom sewing, theatrical closures, alterations and sewing shortcuts will also be included in instruction. *One hour lecture, six hours lab.*

Theatre Arts

THEA   032D   **3.0 Units**
Fundamentals of Costume Design - Musical
Successful completion (minimum grade of C) or enrollment in English 001. Students will study musical costume history, design, and basic construction techniques as an introduction to musical theatre costuming. Fabrics and their various uses will be investigated. Students will learn how to design costumes for large musical casts with multiple costume changes. Students will also learn how music and dance influence costume construction. 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. Repeatable to a maximum of 12 unit, including initial enrollment. *One hour lecture, six hours lab.*

THEA   034   **2.0 to 4.0 Units**
Musical Theatre
Prerequisite: Audition for actors only, no auditions for crew and other staff. Course Advisory: SCC minimum English standard. The study, rehearsal, and public performance of musical works for the stage including operas, operettas and musicals. Students participate as vocalists, musicians, dancers, and accompanists. Variable units: 48 hours of participation equals one unit of credit. This is an Open Entry/Open Exit course. Students may take this course up to the maximum number of units over multiple semesters. Formerly MUSC 022. *One hour lecture, three hours lab, three to six hours by arrangement.*

THEA   047A   **3.0 Units**
Technical Theatre in Production-Comedy
Course Advisory: SCC minimum English standard. This course is oriented for the student to work with the unique technical requirements used in a Comedy production, such as abstract and whimsical scenic design elements, comic color pallets and special property elements that are designed specifically to 'get a laugh'. Students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. C-ID THTR 192. *Nine hours lab.*

THEA   047B   **3.0 Units**
Technical Theatre in Production-Drama
Course Advisory: SCC minimum English standard. This course is oriented for the student to work with the unique technical requirements used in a Drama production, such as, Realistic and period scenic design elements: Architecture as well as natural settings. The student will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. C-ID THTR 192. *Nine hours.*

THEA   047C   **3.0 Units**
Technical Theatre in Production - Classical
Course Advisory: SCC minimum English standard. This course is oriented for the student to work with the unique technical requirements used in a Classical production, such as Historical and renaissance period design pieces and accurate stage properties of the time. The students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. C-ID THTR 192. *Nine hours lab.*

THEA   047D   **3.0 Units**
Technical Theatre in Production - Musical
Course Advisory: SCC minimum English standard. This course is designed for the student to work with the unique technical requirements used in a Musical Theatre Production: Such work can involve use of, Scenery that has multiple settings, set pieces that employ special rigging, scenic wagons as well as special live audio and lighting effects. The Students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. C-ID THTR 192. *Nine hours lab.*

Theatre Arts

THEA 048A   **3.0 Units**
Theatre Appreciation
Course Advisory: SCC minimum English and Math standards. Students will be required to purchase tickets for live performances. An introduction to methods of evaluating theatre in performance. Students will attend several plays each semester (approximately six to be determined by instructor), producing a written analysis/critique of each. Lectures will focus on the elements of a play in production and critical analysis and writing techniques. *Two and one half hours lecture, one and one half hours by arrangement.*

THEA 050   **3.0 Units**
Acting for the Camera
Course Advisory: Minimum Standards: Eligibility for English 001. 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. *Three hours lecture.*

THEA 108   **2.0 Units**
Advanced Theatre Touring Company
Prerequisite: THEA 106 with a minimum grade of C, THEA 034/048C may be substituted for THEA 106. Entrance by audition. Advanced Theatre Touring Company students will gain experience touring throughout Solano County, performing from the American Musical Theatre repertoire. Travel is required to various Solano County venues for performances. *One hour lecture, two hours lab, one hour by arrangement.*

University Studies

Liberal Studies with Emphasis on Education

Program Description
The Associate in Arts Degree in University Studies is designed for students who wish a broad knowledge of arts and sciences plus additional coursework in an area of academic interest. With proper planning, students will complete lower division major preparation and general education for transfer while simultaneously completing the University Studies Associate Degree. This major is an ideal choice for students planning to transfer to the University of California (UC), the California State University (CSU), or any other baccalaureate-granting college or university.

Students are encouraged to develop a transfer plan in consultation with a counselor and to refer to www.assist.org for current articulation of Solano Community College and university courses.
- Choose either Solano Community College Option B or C for the General Education pattern related to your educational goal.
- For both options: complete a Cross Cultural Studies Graduation Requirement.
- Complete at least 18 units in on Area of Emphasis from those listed below.
- Choose electives if necessary to complete the 60 units required for the Associate Degree.
- All courses for this 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.

General Education . . . . **GE Units**
I. Option B: IGETC
   Minimum 34 semester units
Complete units necessary to meet full IGETC certification requirements.

II. Option C: CSU/GE/Breadth Pattern
   Minimum 39 semester units
Complete units necessary to meet full CSU/GE-Breadth certification requirements.

Areas of Emphasis
- 18 units required from one Area of Emphasis listed below.
- Where appropriate, courses in the Area of Emphasis may also be counted for GE.
- Courses numbered 1-49 transfer to UC, CSU and most independent and out-of-state colleges and universities. Courses numbered 50-99 transfer to CSU and some independent and out-of-state colleges and universities. Courses numbered 100-199 are associate degree applicable but usually do not transfer to baccalaureate-granting institutions.

Elective Units
Electives may be necessary to meet the 60-unit requirement for the Associate Degree.

Program Outcomes:
Students completing an Associate Degree will be able to:
1. Develop a pattern of thinking and a knowledge base consistent with the scholarship required to pursue further study in a major at a university.
2. Discover the nature and common themes of the disciplines represented by an area of emphasis
3. Examine the relationship between personal perspective and evidence-based evaluation of information.

University Studies

Arts and Humanities

Minimum 18 units required

Minimum six units from the Arts and six units from Humanities

Maximum three units of credit for studio/performance courses

These courses emphasize the study of cultural, literary and humanistic activities and the artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to each other and the world around them through artistic and cultural creation.

Majors at a 4-year institution appropriate for this Area of Emphasis include but are not limited to: Classical Civilization, Design, Dramatic Arts, Film Studies, Literature, Music, and Philosophy.

ARTS

ART 001, 002, 003,010, 011, 012

ART Studio: 004, 005, 006, 007, 008, 014, 015, 016, 017, 018, 021, 022, 023, 026, 027, 030B, 031, 032, 033, 034, 038, 039, 040, 041, 042, 043

CINA 010, 011

CINA Performance: 015

MUSC 001, 002, 003, 004, 005, 007, 008, 013

MUSC Studio: 027, 028, 029, 030, 041A, 041B

PHOT 035

THEA 006, 010, 011, 013, 048A

THEA Performance: 001, 002, 003, 020

TV 050

HUMANITIES

COMM 015

ENGL 002, 006, 007,012, 014, 016, 018, 021, 023, 024, 025, 030, 031, 033, 035, 036 038, 040, 041, 044, 046, 047

FREN 001, 002, 003, 004, 011, 012, 031, 032

GRMN 001, 002, 003, 004, 011, 012, 031, 032, 033, 034

HIST 002, 003, 004, 005, 010, 017, 018, 028, 029, 031, 037

ITAL 031, 032

LATN 001, 002, 003

PHIL 003, 004

SPAN 001, 002, 003, 004, 011, 012, 025, 031, 032, 033, 034

University Studies

Communication

*M*inimum *18 unit*s *r*equir*ed*

*M*inimum *th*ree *unit*s *from each of th*ree *diff*erent *di*scipline*s*

These courses emphasize the content, understanding and production of verbal and written communication. Students will learn to evaluate and assess communication as a process of human symbolic interaction while developing skills in such areas as reasoning, organization, accuracy, reading and effective listening.

Majors at a 4-year institution appropriate for this Area of Emphasis include, but are not limited to: Advertising and Public Relations, English, Journalism, Linguistics, Mass Communication, Rhetoric, and Speech.

BUS 092
COMM 001, 002, 006, 008, 010, 012, 015, 060
COUN 062
ENGL 002, 004, 006, 007, 046, 047, 058, 062,
FREN 001, 002, 003, 004, 031, 032
GRMN 001, 002, 003, 004, 031, 032, 033, 034
HS 054
ITAL 031, 032
JOUR 001, 002, 011, 060
LATN 001, 002, 003
PHIL 005
SPAN 001, 002, 003, 004, 025, 031, 032, 033, 034
SOCS 030, 051
TV 050, 060, 061

University Studies

Liberal Studies with Emphasis on Education

Minimum 18 units required

Minimum three units from each of four different disciplines

This Area of Emphasis is intended for students who plan to complete a baccalaureate degree and a California Multiple subject Teaching Credential. Most students pursue this credential with the goal of becoming elementary school or special education teachers. This degree is designed to accommodate the differing requirements of the California State University and the University of California campuses that offer majors preparing students for the multiple subject credentials.

ANTH 002, 007
ART 001, 002, 003, 006, 010, 011, 012, 014, 017, 023, 031, 039
ASTR 010
BIO 003, 004, 005, 012, 014, 015, 016, 019
CDFS 038, 039, 070, 071
CHEM 010
CINA 010, 011
CDFS 038, 039, 070, 071
ECON 001
ENGL 012, 016, 030, 031, 032, 033, 035, 036, 038, 040, 041. .
GEOG 002, 004
GEOL 001, 002
HED 002
HIST 002, 003, 004, 005, 010, 017, 018, 028, 029, 037
HUMN 003
MATH 002, 004, 011, 012
MUSC 005, 007, 008, 013
PHIL 001, 003, 004, 005
PHYS 010
PHSC 012
PLSC 001, 005
PSYC 001, 002, 005, 010
SOC 001, 002, 023, 040
SOCS 022
THEA 001, 010, 011, 013

University Studies

Science and Quantitative Reasoning
Minimum 18 units required
Minimum six units from Science and six units from Quantitative Reasoning
Chemistry courses may be used as either Science or Quantitative reasoning but not in both.

These courses emphasize the natural sciences which examine the physical universe, its life forms and its natural phenomena. Courses in math emphasize the development of mathematical and quantitative reasoning skills beyond the level of intermediate algebra. Students will be able to demonstrate an understanding of the methodologies of science as investigative tools. Students will also examine the influence that the acquisition of scientific knowledge has on the development of the world's civilizations.

Majors at a 4-year institution appropriate for this Area of Emphasis include but are not limited to: Animal Science, Biology, Computer Science, Engineering, Geology, Nursing, and Physics.

Program Outcomes:
Students completing the Associate Degree will:
1. Learn how to write a laboratory report or give an oral presentation
2. Demonstrate analytical and/or conceptual problem solving skills
3. Learn to carry out experiments and critically assess their data. Students will learn the roles of hypotheses, measurement, and analysis in the development of scientific theory as evidenced by laboratory reports.

SCIENCE
ANTH 001
ASTR 010, 020, 030, 040
BIO 002, 004, 005, 012, 012L, 014, 015, 016, 018, 019
CHEM 001, 002, 003, 004, 010, 011, 051
ENGR 017, 030, 045
GEOG 001, 001L
GEOL 001, 002, 005
PHYS 002, 004, 006, 007, 008, 010
PHSC 012
PSYC 002

QUANTITATIVE REASONING
CIS 001, 015, 020, 022, 023, 035
CHEM 001, 002, 010
GEOG 010 (GEOL 010)
MATH 002, 004, 011, 012, 020, 021, 022, 023, 030, 031, 040, 051
PSYC 004

University Studies

Social Science

Minimum 18 units required
Minimum three units from each of three different disciplines
These courses emphasize the perspective, concepts, theories and methodologies of the vast variety of disciplines that comprise study in the Social Sciences. This emphasis examines people and their interactions with each other, within their social and political institutions and as members of the larger society. Course work will explore behavior - sometimes the behavior of an individual, other times the behavior of a system, society, or culture. Topics and discussion will stimulate critical thinking about ways people have thought and acted in response to their upbringing, environment and society.

Majors at a 4-year institution appropriate for this Area of Emphasis include but are not limited to: Anthropology, Child Development, Government, History, Psychology, and Social Work.

ANTH 002, 007
CDFS 038, 039, 040, 050, 052, 053, 070
COMM 012
COUN 055, 058, 062, 083
CJ 001, 002, 011
ECON 001, 002, 010
GEOG 002, 004
HIST 002, 003, 004, 005, 010, 017, 018, 028, 029, 030, 031, 037
HS 051, 054, 053
IR 001
JOUR 011
PLSC 001, 002, 005, 016, 019
PSYC 001, 002, 004, 005, 010, 020, 024, 030, 034
SOC 001, 002, 023, 030, 040
SOCS 022, 023, 025, 027, 030, 051, 053
COMM 012
TV 050

Water and Wastewater Technology

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.

Certificate of Achievement and Associate in Science
A Certificate of Achievement can be obtained by completing the 25-33-unit major. The Associate in Science Degree can be obtained upon completion of 60 units, including the major, the general education requirements, and electives. All courses for this 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 Water and Wastewater Technology Certificate of Achievement/Associate Degree will be able to
1. Certification of plant operators
2. Treatment methods & technology
3. 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
Select 4 or 5 units from Specialty Courses 4-5
Select from Option 1, 2, or 3 3-9

Specialty Courses - Select 4 or 5 Units
WATR 105 Wastewater Treatment II 3
WATR 108 Water Treatment II 3
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
CHEM 010 Intermediate Chemistry 4
OR
CHEM 051 Chemistry for the Health Sciences 5
OR
CHEM 001 General Chemistry 5

OPTION 3
WATR 103 Biological Principles of Water
       and Wastewater 3
    Total Units 25-32

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Water & Wastewater Technology."

Water and Wastewater Technology

WATR 100   **4.0 Units**
Wastewater Treatment I
Course Advisory: SCC minimum English and Math standards. 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. *Four hours lecture.*

WATR 101   **4.0 Units**
Basic Chemistry for Water and Wastewater
Course Advisory: SCC minimum English and Math standards. 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. *Four hours lecture.*

WATR 103   **3.0 Units**
Biological Principles of Water and Wastewater
Course Advisory: SCC minimum English and Math standards. This course examines 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. *Three hours lecture.*

WATR 104   **3.0 Units**
Water Treatment I
Course Advisory SCC minimum English and Math standards. This course examines the elementary engineering aspects of the design, operation, process control, and facilities of a plant designed to treat and purify drinking water. *Three hours lecture.*

WATR 105   **3.0 Units**
Wastewater Treatment II
Prerequisite: WATR 100. Course Advisory: SCC minimum English and Math standards. Study of the elementary engineering aspects of design, operation process control, and maintenance of wastewater treatment plants and facilities. *Three hours lecture.*

WATR 106   **3.0 Units**
Instrumentation and Control
Course Advisory: SCC minimum English and Math standards. 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. *Three hours lecture.*

WATR 107   **4.0 Units**
Mathematics of Water and Wastewater Treatment
Course Advisory: SCC minimum English and Math standards. A study of calculations - hydraulics, chemicals, solids - used in the design, operation, process control, and maintenance of treatment plants and facilities. *Four hours lecture.*

WATR 108   **3.0 Units**
Water Treatment II
Prerequisite: WATR 104 with a minimum grade of C. Course Advisory: SCC minimum English and Math standards. This course covers 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   **2.0 Units**
Wastewater Treatment III
Prerequisite: WATR 105. Course Advisory: SCC minimum English and Math standards. This course will cover 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. *Two hours lecture.*

Water and Wastewater Technology

WATR   120   **2.0 Units**
Distribution Systems Maintenance
Course Advisory: SCC minimum English and Math standards. Study of the operation and maintenance of water distribution systems covering the design, construction and the functioning of these systems. *Two hours lecture.*

WATR   121   **2.0 Units**
Collection Systems Maintenance
Course Advisory: SCC minimum English and Math standards. Study of the operation and maintenance of wastewater collection systems covering the design, construction and functioning of these systems. *Two hours lecture.*

WATR   125   **2.5 Units**
Water Conservation
Course Advisory: SCC minimum English and Math standards. 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. *Two and one half hours lecture.*

WATR   126   **3.0 Units**
Pumps and Motors
Course Advisory: SCC minimum Math standard. 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. *Three hours lecture.*

Welding

Welding, Industrial Technician

Program Description
Designed to upgrade the skills of persons employed as welders, providing advanced training in a variety of welding applications.

Certificate of Achievement and Associate in Science Degree
A Certificate of Achievement can be obtained upon completion of the 24-unit major listed below. The Associate in Science Degree can be obtained by completing a total of 60 units, including the major, general education requirements, and electives. All courses for this 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. Certification of students as "Code Welders" is available at a nominal cost to the student.

Program Outcomes
Students who complete the Welding, Industrial Technician Certificate of Achievement/Associate Degree 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.

REQUIRED COURSES . . . . **Units**
DRFT 079 Blueprint Reading 3
IT 140 Industrial Materials 3
Electives selected from the list below 18
    Total Units **24**

Select 18 units from the following Units
WELD 120 Plate Welder (Basic) 3
WELD 121 Plate Code Welder (Advanced) 3
WELD 122 Pipe Welding (Basic) 3
WELD 123 Pipe Welding (Advanced) 3
WELD 124 Gas Tungsten Arc Welding (GTAW) 3
WELD 125 Gas Metal Arc Welding 3
WELD 126 Ornamental Iron Welding 3

Recommended Electives:
ENGL 051 Technical Writing
OCED 070 Occupational Soft Skills
OCED 090 Occupational Work Experience
OCED 091 General Work Experience
WELD 175 Welding Fabrication

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Welding, Industrial Technician."

Welding

Welding Technician

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.

Certificate of Achievement and Associate in Science Degree
A Certificate of Achievement can be obtained upon completion of the 49-unit major listed below. The Associate in Science Degree can be obtained by completing a total of 69 units, including the major and the general education requirements. All courses for this 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. Certification of students as "Code Welders" is available at a nominal cost to the student.

Program Outcomes
Students who complete the Welding Technician Certificate of Achievement/Associate Degree 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.

REQUIRED COURSES . . . . **Units**
WELD 100 Welding Technology. 10
WELD 101 Welding Technology. 10
WELD 102 Welding Technology. 10
WELD 103 Welding Technology. 0
DRFT 079 Blueprint Reading 3
IT 140 Industrial Materials 3
IT 150 Industrial Processes 3
    Total Units 49

Recommended Electives:
IT 160 Electrical Fundamentals
OCED 070 Occupational Soft Skills
OCED 090 Occupational Work Experience
OCED 091 General Work Experience
WELD 175 Welding Fabrication

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Welding Technician."

Welding Equipment Operator Job-Direct Certificate

All courses must be completed with a grade of "C" or better.

REQUIRED COURSES . . . . **Units**
WELD 175 Welding Fabrication. 2
OCED 090 * Occupational Work Experience 1- 8
    Total Units 3-10

*Students will be required to complete 80 hours of cooperative supervised work experience to receive credit.

Welding

WELD 100   **10.0 Units**
Welding Technology
Course Advisory: SCC minimum English standard.
Development of manual skills and related technical
knowledge in arc and acetylene welding and burning;
flat, horizontal, vertical and overhead positions;
machine adjustments, rod identification and
characteristics; joints metal expansion and contraction.
Five hours lecture, fifteen hours lab.

WELD 101   **10.0 Units**
Welding Technology
*Prerequisite: WELD 100 or comparable industry experience
or training. Course Advisory: SCC minimum English
standard.* Designed to present the theory, procedures,
and manipulative skills required to weld mild steel
plate to code certification levels with the shielded
metal arc and flux cored arc welding processes. A basic
understanding of metallurgy, metals identification,
layout, and welding of other metals is also presented.
Five hours lecture, fifteen hours lab.

WELD 102   **10.0 Units**
Welding Technology
*Prerequisite: WELD 101 or comparable industry experience
or training. Course Advisory: SCC minimum English and
Math standards.* Designed to present the theory,
procedures, and manipulative skills required to weld
metals of various thicknesses with the gas metal arc
welding process. Introduces the student to the theory,
procedures, and manipulative skills required to weld
mild steel pipe to industrial standards. *Five hours
lecture, fifteen hours lab.*

WELD 103   **10.0 Units**
Welding Technology
*Prerequisite: WELD 102 or comparable industry experience
or training. Course Advisory: SCC minimum English
standard.* Designed to present the theory, procedures
and manipulative skills required to weld metals of
various thicknesses with the gas tungsten arc process,
as well as the theory, procedures and manipulative
skills required to weld and fit pipe in all positions. *Five
hours lecture, fifteen hours lab.*

WELD 112   **1.0 Unit**
Carpentry Apprentice Welding
*Course Advisory: SCC minimum English and Math
standards.* Provides introductory safety instruction and
manipulative practice in the setup and use of oxy-
acetylene and arc welding and cutting equipment.
Manipulative and written tests are used to give
students practice and to evaluate performance in
applying techniques learned. *Twelve hours lecture,
twenty-four hours lab (1-week course).*

WELD 120   **3.0 Units**
Plate Welder (Basic)
*Course Advisory: Successful completion of IT 110 or prior
welding experience; SCC minimum English standard.*
Presents the theory, procedure and manipulative skills
required to meet certification standards on one-inch
plate using low hydrogen electrodes in the vertical
position. Manipulative and written tests are used to
give students practice and to evaluate performance in
applying techniques earned. *Two hours lecture, three
hours lab.*

WELD 121   **3.0 Units**
Plate Code Welder (Advanced)
*Course Advisory: Successful completion of IT 110 or prior
welding experience; SCC minimum English standard.*
Develops the principles taught in WELD 120,
expanding the student's ability to weld one-inch thick
certification plates in all positions with low hydrogen
electrodes. Manipulative and written tests are used to
give students practice and to evaluate performance in
applying techniques learned. *Two hours lecture, three
hours lab.*

WELD 122   **3.0 Units**
Pipe Welding (Basic)
*Course Advisory: Successful completion of IT 110 or prior
welding experience; SCC minimum English standard.*
Presents the theory, procedure, and manipulative skills
required to meet certification standards on schedule 80
steel pipe in the horizontal fixed position.
Manipulative and written tests are used to give
students practice and to evaluate performance in
applying techniques learned. *Two hours lecture, three
hours lab.*

Welding

WELD 123   **3.0 Units**
Pipe Welding (Advanced)
Course Advisory: Successful completion of IT 110 or prior welding experience; SCC minimum English standard. Develops the principles taught in WELD 122, expanding the student's ability to weld pipe in all positions. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned. *Two hours lecture, three hours lab.*

WELD 124   **3.0 Units**
Gas Tungsten Arc Welding (GTAW)
Course Advisory: Successful completion of IT 110 or prior welding experience; SCC minimum English standard. Presents the theory, procedures, and manipulative skills required to weld aluminum steel and stainless steel with the Gas Tungsten Arc process. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned. *Two hours lecture, three hours lab.*

WELD 125   **3.0 Units**
Gas Metal Arc Welding
Course Advisory: Successful completion of IT 110 or prior welding experience; SCC minimum English standard. Presents the theory, procedures, and manipulative skills required to weld steel and aluminum with the gas metal arc process. Includes the manipulative skills required to weld with the flux cored arc process. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned. *Two hours lecture, three hours lab.*

WELD 126   **3.0 Units**
Ornamental Iron Welding
Course Advisory: Successful completion of IT 110 or prior welding experience; SCC minimum English standard. Presents the theory, procedures, and manipulative skills required to fabricate and weld ornamental iron projects. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned. *Two hours lecture, three hours lab.*

WELD 175   **2.0 Units**
Welding Fabrication
Course Advisory: SCC minimum English and Math standards. Designed to increase student knowledge and tactile skills with welding processes and related metal working equipment. *Four hours lecture, sixteen hours lab (4-week course).*

WELD 500   **.0 Units**
Special Welding Problems
Prerequisite: Permission of the instructor to verify room for special problems students. Designed to assist with vocational placement for advanced welding students who have sufficient background in welding fundamentals to pursue more independent studying in the area of their choice. The 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. *Hours by arrangement as required.*

Administration

Stan Arterberry
Interim Superintendent/President

Governing Board

A. Marie Young, President
Vallejo

Michael A. Martin, Vice President
Vacaville/Winters/Dixon

Monica Brown
Fairfield/Green Valley/Cordelia

Sarah E. Chapman, Ph.D.
Vacaville

Denis Honeychurch, J.D.
Fairfield, Vacaville, Travis Air Force Base

Pam Keith
Vallejo

Rosemary Thurston
Benicia/Vallejo/Suisun

Stan Arterberry
Board Secretary

The College's Governing Board meets the first and third Wednesdays of each month at 6:30 p.m. in the Board Room, locations are to be determined, please check the Governing Board Web site for the most current meeting information. All meetings, with the exception of closed sessions, are open to public participation. Minutes of previous meetings and current agendas are available from the Superintendent/President's Office and on the Solano Community College District Web site (www.solano.edu).

Academic and Student Affairs

Leslie Minor, Ph.D.	*Vice President, Academic Affairs*
Máire Morinec	*Vacaville Center/TAFB School of Applied Technology & Business*
Robert Gabriel, Ph.D.	*Dean, School of Health Sciences*
John Yu, Ph.D.	*Dean, School of Math and Sciences*
Keydron Guinn, Ph.D.	*Dean, School of Social & Behavioral Sciences*
Neil Glines	*Dean, School of Liberal Arts*
Thomas Kea, Ph.D.	*Dean, Vallejo Center*
Shirley Lewis, J.D.	*Chief Student Services Officer*
Jocelyn Mouton	*Dean, Counseling & DSP*

Charles Eason	*Director, Small Business Sector Navigator*
Robin Darcangelo	*Associate Dean, Students-Financial Aid, EOPS & Veterans*
Christie Speck	*Director, Children's Programs/Early Learning Center*
Shemila R. Johnson	*Director, Enrollment Services*
John Mullen	*Interim Director, Records/Registrar*
Rischa Slade, J.D.	*Director, Student Life*
Peter Cammish	*Dean, Research, Planning, and Institutional Effectiveness*
Jose Ballesteros, Ph.D.	*MESA Coordinator and High School Liaison*
Kelly Penwell	*Associate Dean, Workforce Development & Continuing Education, Small Business Development*

Finance and Administration

Yulian Ligioso	*Vice President, Finance & Administration*
Patrick Killingsworth	*Director, Fiscal Services*
Adil Ahmed	*Interim Accounting Manager*
Dwight Calloway	*Director, Facilities*

Technology Services and Support

Roger Clague	*Chief Technology Officer*
James "Kimo" Calilan	*Director, Technology Services & Support*

Human Resources

Wade Larson, D.M.	*Associate Vice President, Human Resources*
Rachel Ancheta	*Manager, Human Resources*

Institutional Advancement

Cynthia Garcia	*Grants & Resource Development Manager*

Public Relations

Yaschica J. Crawford, Ph.D.	*Chief of Staff*

Faculty & Educational Administration

Abel-Quintero, Margaret, *School of Liberal Arts*, B.A., University of Iowa; M.A., Ph.D., University of California, Santa Barbara

Allen, Darryl, *School of Mathematics & Sciences*, B.S., M.S., California State University, Hayward

Anderson, Isabel, *School of Liberal Arts*, B.A., M.A., California State University, San Francisco

Anderson, James, *Counseling/DSPS*, A.A., Solano Community College; B.A., M.S., California State University, Sacramento

Anderson, Kevin, *School of Applied Tech. & Business Ed.*, B.A., University of California, Berkely; J.D., San Francisco Law School

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Arterberry, Stan, *Interim Superintendent/President*, B.A., Whittier College; M.A., Atlanta University

Ayala, Anthony, *School of Social and Behavioral Sciences*, B.A., California State University, East Bay; M.A., Pacific Oaks College

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Berrett, Mark, *School of Applied Tech. & Business Ed.*, A.S., Solano Community College; B.S., Southern Illinois University; M.S., University of Phoenix

Blair, Emily, *School of Liberal Arts*, B.A., M.A., Ph.D., University of California, Davis

Boerner, Howard, *School of Liberal Arts*, B.A., M.A., University of California, Berkeley

Bolz, C. Sabine, *School of Social and Behavioral Sciences*, B.S., Justus-Liebig Universitaet Giessen, Germany; Hauptdiplom (ABD) Carl-von Ossietzky Universitaet Oldenburg, Germany

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Burnsed, Frank, *School of Health Sciences*, B.S., M.A., Western Kentucky College

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Cain, Ginger, *School of Health Sciences*, B.F.A. Cornish Institute;, M.A., St. Mary's College

Cammish, Peter, *Research & Planning*, B.Sc., University of Newcastle-upon-Tyne; M.Sc., Northumbria University

Cardinal, Jeffrey, *School of Health Sciences*, B.S., California State, University, Hayward; M.A., San Jose State University

Carter, Quentin, *Library Services*, B.A., University of Southern Colorado; M.A., Ph.D., University of Denver

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Christiansen, Abla, *Counseling/DSPS*, B.S., California State University, Chico; M.S., San Francisco State University

Cittadino, Nicholas, *Counseling/DSPS*, B.S., University of Idaho; M.A., Chapman University

Cobene, Harold, *School of Liberal Arts*, B.A., M.A., California State University, Sacramento

Codina, Salvador, *School of Social and Behavioral Sciences*, B.S., M.A., California state University, Sacramento

Conrad, Joseph, *School of Mathematics & Sciences*, B.S., Pennsylvania State University; M.A., University of Maryland; Ph.D., Pennsylvania State University

Conrad, Kathleen, *School of Mathematics & Sciences*, B.S., University of California, Davis; M.S., Ph.D., The Pennsylvania State University

Cook, Karen, *School of Applied Tech. & Business Ed.*, B.S., Valparaiso University; M.Ed., Azusa Pacific University

Cowee, Marion, *School of Social and Behavioral Sciences*, B.A., University of California, Berkeley; M.A., Mills College

Craig, Erin, *School of Health Sciences*, 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

Crandall-Bear, Dale, *School of Social and Behavioral Sciences*, B.A., M.A.T., University of California, Davis

Daprato, Robert, *School of Social and Behavioral Sciences*, B.A., M.A., San Francisco State University

Dauffenbach, Amy, *Counseling/DSPS*, B.S., University of Wisconsin, Madison; M.S., California State University, Sacramento

Dekloe, James, *School of Mathematics & Sciences*, B.A., M.A., and C. Philosophy, University of California, Los Angeles

Diehl, Sandra, *School of Mathematics & Sciences*, B.S., Sonoma State University; M.S.N., University of Phoenix

Donovan, Sarah, *School of Mathematics & Sciences*, B.A., University of California, Santa Cruz; M.A., University of California Davis

Duane, Erin, *Library Services*, B.A., Gonzaga University; M.L.I.S., San Jose State University

Ducoing, Christine, *School of Mathematics & Sciences*, B.S., University of California, Davis; M.S., University of Michigan

East, Evangeline, *School of Liberal Arts*, B.A., M.A., California State University, Long Beach

Enemmuo, Vitalis, *School of Health Sciences*

Esteve, Carlos, *School of Mathematics & Sciences*, B.S., Tulane University; M.S., University of New Orleans

Farmer, Erin, *School of Liberal Arts*, B.A., M.A., Mills College

Feighner, Mark, *School of Mathematics & Sciences*, B.S., Indiana, University of Pennsylvania; M.S., Michigan Technological University; Ph.D., University of California, Berkeley

Fields, Tracy, *School of Health Sciences*

Flatland, Marianne, *Counseling/DSPS*, B.A., University of California, Berkeley; M.S., California State University, Hayward

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Ahmed, Adil—Fiscal Services
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Ancheta, Rachel—Human Resources
Anderson, Gale—Admissions and Records
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Glossary

Academic Renewal - A process that allows students to petition for the elimination of clearly substandard coursework (grades D or F) in the calculation of their GPA.

Academic Year - Consists of the summer session and fall semester of one year and the spring semester of the following 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.

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**.

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.

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.

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.

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 provides educational support services to Extended Opportunity Programs and Services (EOPS) students who are CalWORKs-dependent, single parents with preschool-aged children.

Canvas - The Learning Management System used by S olano 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 - See "CRN."

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 Community Education Office, Vistas.

Concurrent Enrollment - Taking one course at a CSU or UC campus while also enrolled at Solano College.

Co-Requisite - There are two types of co-requisites. 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 co-requisites 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 co-requisite is blocked until the requirements of the co-requisite are satisfied.

Course - A particular portion of a subject selected for study. This is identified by a course number, for example, Psychology 001 (PYSC 001)

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 (CRN) - Course should read "006" (three digits) Honors - should read "049" or "099" (three digits) and "HIST 017H.".

Course Reference Number (CRN) - This is identified in the class schedule by a specific CRN number (formerly class section).

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 of Arts; 2) A.S.— Associate of 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.

Glossary

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 disabilities, 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 is a program that provides financially and educationally disadvantaged students with support services that include counseling, financial assistance, tutoring referrals, and assistance towards the purchase of their required textbooks.

EUREKA - A computerized career information system available to students in the College Career Center.

Full-time Student - A student taking twelve or more class units in a regular semester. Note: For enrollment fee purposes, the State considers 6 units as full-time.

General Education Requirements - Courses covering the broad area of thought and experience common to every person. There are two types of general education or breadth requirements, one for the associate degree and one for a bachelor's degree.

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 (G.P.A.) 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 G.P.A. is calculated by dividing the total number of grade points received by the number of units attempted.

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 non-exempt 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.

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.**

Glossary

Noncredit Course - Courses numbered 500-799 which grant no college credit or student grades. A noncredit course should not be confused with the credit/no-credit grading option defined above.

Online Courses - Courses offered by Solano 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 may be added to a program of study 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.

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 Changes - Adding or dropping classes after the original program.

Program of Study - A planned series of courses and activities.

Registration - The process of selecting and enrolling in classes and paying the required fees.

SCC Minimum English Standard - Eligibility for enrollment in English 370.

SCC Minimum Mathematics Standard - Eligibility for enrollment in Math 102 or Math 330 (Elementary Algebra).

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, instructure, 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.

Substandard Grades - A grade of D, F, or NC. (Title V 55761).

TAA - Transfer Admission Agreements.

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. Lists are posted at registration time to provide information to replace TBA.

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.

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.

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.

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.

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.

Withdrawal - Dropping one or more classes.

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2015-2016 Academic Calendars

Please visit MySolano for class-specific deadline information.
Please visit *www.solano.edu* for the most up-to-date list of Dates and Deadlines
via Google calendar, or select "View Academic Calendar" for additional information.
View course offerings online at *www.solano.edu*.

SUMMER 2015

Please visit *MySolano* for class-specific deadline information.

JUNE 2015

6/1/15	Begin 9-week classes
6/15/15	Begin 6- and 8-week classes

JULY 2015

7/2/15	No Classes – Independence Day Observed
7/4/15	Independence Day
7/27/15	End 6-week classes

AUGUST 2015

8/3/15	End 9-week classes
8/10/15	End 8-week classes

FALL 2015

The dates below refer to full term classes. Short term class deadlines vary by class/CRN#.

AUGUST 2015

8/13/15	President's Welcome for Faculty/Staff
8/17/15	Fall Term begins
8/17/15	Late Registration begins
8/30/15	Last day to Drop a full term class and receive a refund of enrollment fee only

SEPTEMBER 2015

9/5-7/15	Labor Day weekend - Campus closed
9/6/15	Last day to Add a full term class**
9/6/15	Last day to Drop a full term class without a W
9/8/15	Census Date – Full term classes
9/10/15	Last day to apply for Credit by Exam
9/17/15	Last day to file for Pass/ No Pass option or reverse

OCTOBER 2015

10/15/15	Last day to Petition for Degrees/Certificates

NOVEMBER 2015

11/1/15	Last day to Drop a full term class with a W
11/11/15	Veteran's Day - Campus closed
11/25/15	SCFA Holiday - No classes
11/27-30/15	Thanksgiving Break - Campus closed

DECEMBER 2015

12/14-18/15	Evening Class Finals
12/14-18/15	Day Class Finals
12/19-20/15	Saturday/Sunday Class Finals
12/18/15	Fall Term Ends
12/22/15	Faculty Grade Submission Deadline – by 5 p.m.

Individual registration dates and times can be viewed online at www.solano.edu. Click on MySolano, login and then select the Student tab. Under Registration, click on "When Can I Register?"

**Late Start Classes: Some classes begin each month throughout the semester. Open registration for these classes is available until midnight prior to the class start date if seats are available. Late registration will apply when the class starts.

2015-2016 Academic Calendars

SPRING 2016

The dates below refer to full term classes. Short term class deadlines vary by class/CRN#.

January 2016

1/8/16	President's Welcome for Faculty/Staff - Campus closed
1/11/16	Spring Term begins
1/18/16	Dr. Martin Luther King Jr. Holiday - Campus closed
1/12-2/1/16	Late Registration
1/25/16	Last day to Drop a full term class and receive refund of enrollment fee only

February 2016

2/1/16	Last day to Add a full term class**
2/1/16	Last day to Drop a full term class without a W
2/2/16	Census Date - Full term classes
2/5/16	Last day to apply for Credit by Exam
2/12/16	Last day to file for Pass/No Pass option or Reverse
2/13-2/16/16	President's Day weekend - Campus closed

March 2016

3/17/16	Last day to petition for Degrees/Certificates

April 2016

3/27-4/3/16	Spring Break - Campus closed
4/3/16	Last day to drop a full term class with a W

May 2016

5/11/16	No Classes
5/12-18/16	Evening Class Finals
5/12-18/16	Day Class Finals
5/14-15/16	Saturday/Sunday Class Finals
5/18/16	Spring Term Ends
5/19/16	Graduation Ceremony (Some offices closed)
5/22/16	Faculty Grade Submission Deadline - by 5 p.m.

Individual registration dates and times can be viewed online at www.solano.edu. Click on MySolano, login and then select the Student tab. Under Registration, click on "When Can I Register?"

**Late Start Classes: There are classes that begin each month throughout the semester. Open registration for these classes is available until midnight prior to the class start date if seats are available. Late registration will apply when the class starts.

Parking Information

PARKING PERMITS: Semester parking permits can be purchased online through My Solano or at www.solano.edu Parking permits are not transferable from one person to another. It is against the law to alter, forge, reproduce, sell, or loan your parking permit to another person. Parking permits are required each semester and during summer sessions. Faculty/Staff and reserved parking is enforced 7 days a week, 24 hours a day. All permits (semester and daily) must be clearly displayed. Motorcycles may park in designated motorcycle areas without cost or permits. Motorcycles parked in other areas require permits at the vehicle price.

PARKING ENFORCEMENT: During the first week of the fall/spring semester and during the first week of summer session, parking permits are not enforced in designated student parking areas with the exception for reserved parking, such as Ride Share, Visitors, Faculty and Staff, Disabled, etc. Thereafter, permit parking is enforced Monday-Friday, 7 a.m.—10 p.m. You must have a valid permit clearly displayed while parked on Solano Community College District property, including the Vacaville Center and the Vallejo Center. All other regulations and vehicle code violations are enforced 24 hours a day, 7 days a week.

FAIRFIELD CAMPUS, VACAVILLE AND VALLEJO CENTERS: A parking permit is required to park at the Fairfield Campus, and the Vacaville and Vallejo Centers. Permits are $20 per each semester and $6 for Summer sessions. Parking for students is provided in clearly designated areas of the campus. Certain parking areas are reserved for visitors, for faculty and staff who hold permanent parking permits, and for handicapped persons. Student parking is provided in Lots 1, 2, 3, 4, 5, and 6.

DAILY PARKING PERMITS: Daily parking permits may be purchased from the permit dispensers located in each student lot at a cost of $1 per day ($1 bills or coins accepted). New daily permits must be purchased each day. If a permit dispenser is out of service, purchase a permit in an adjacent lot and notify the Police in Bldg. 1800B or call (707) 864-7131. Daily permits are valid in student parking only. Daily permits are interchangeable between the Fairfield campus and the Vacaville and Vallejo Centers.

Handicap Parking: A current parking permit along with a handicap placard or plates are required to park in handicap parking. The placard/plates and parking permit must be clearly displayed.

RIDESHARE PERMITS: Rideshare permits are issued by the Student Development Office in Bldg. 1400, Room 1425. Vehicles displaying valid rideshare permits may park in the spaces reserved for rideshare participants and not in any other lots. If you do not have a rideshare permit, you may not park in the rideshare spaces. Rideshare vehicles must have 3 or more participants.

VISITOR PARKING: Limited 30-minute visitor parking is available at the Fairfield campus, and Vacaville and Vallejo Centers in designated areas. For visits longer than 30 minutes, purchase a daily permit and move your vehicle to another stall in the parking lot. Do not park in rideshare or faculty/staff lots. Visitor parking is not to be used by faculty, staff, or students.

GENERAL INFORMATION: Parking permits are good for all Solano College campus locations. Permits must be located as directed on the permit directions. Parking fees are subject to change. Parking brochures are available at the Police Department. An appeal process to contest citations is available. Got to **www. Solano.edu/police/parking.html** and click the Interactive Appeal Process Form link. For questions, call (707) 864-7131.

PARKING LOT INFORMATION:

- **FACULTY/STAFF:**
  Fairfield: Lots A-F, other designated areas
  Vacaville/Vallejo: Designated parking
- **STUDENT:**
  Fairfield: Lots 1-7
  Vacaville/Vallejo: Designated Lots
- **COSMETOLOGY PATRON PARKING:**
  (West side Lot D) Must have Patron Parking Permit from Cosmetology Department 8:30 am-10:00 pm
- **DISABLED PARKING**:
  Must have disabled placard or plates AND Solano College parking permit or daily meter ticket
- **RIDESHARE:** (3 or more passengers)
  Special permit required. For more information, contact Student Development in Bldg 1400 (across from the Bookstore)
- **VISITORS PARKING:**
  30 minutes only. If longer than 30 minutes, purchase daily meter ticket and move vehicle to regular parking lot. No Faculty/Staff or Student parking allowed.
- **CHILD CARE PARKING:**
  15 minutes only. For dropping off or pickup up only. If longer than 30 minutes, purchase daily meter ticket and move vehicle to regular parking lot. No Faculty/Staff or Student parking allowed.

Campus Maps

Travis Air Force Air Base Map
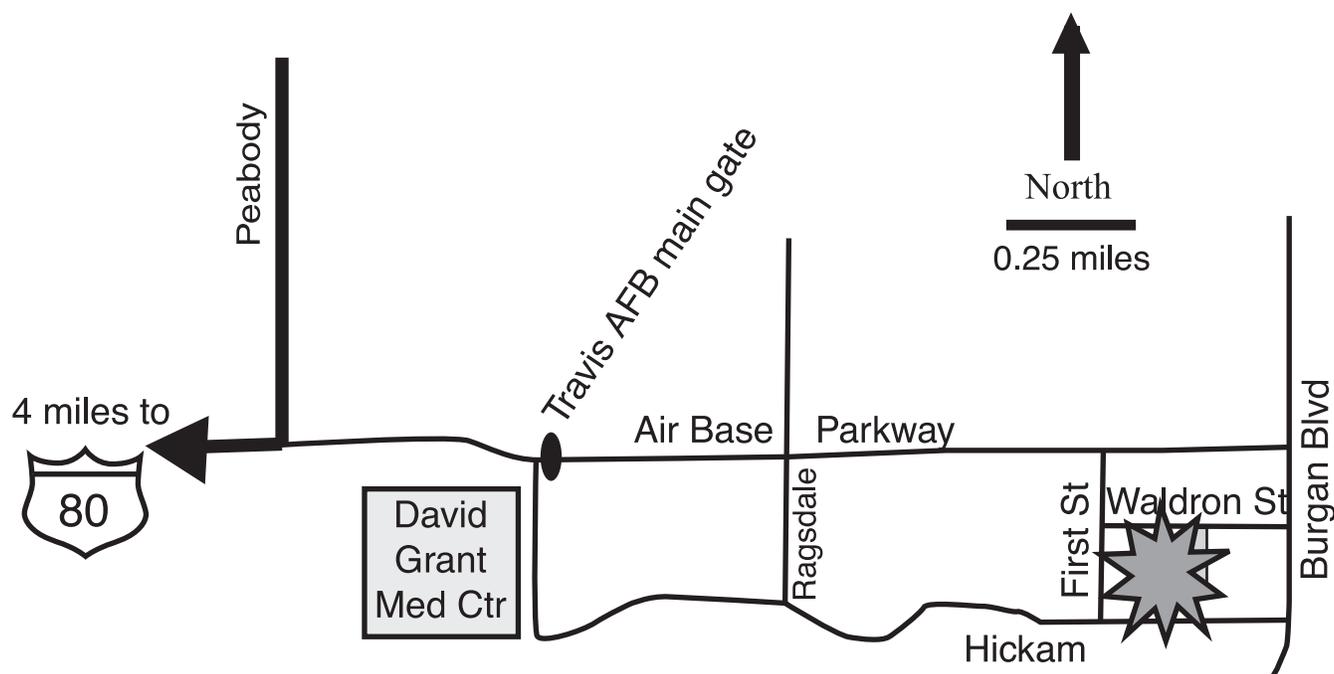
The Travis AFB University Center is located in Building 249 at 530 Hickam Avenue on Travis Air Force Base. To get to the Center, take the Air Base Parkway exit off of I-80 and follow it until it ends at the Travis Main Gate. Instructions for obtaining a pass are located below. After obtaining a pass, 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; you will see the University Center on your right. You may park in any vacant space.

TRAVIS AIR FORCE BASE GATE PROCEDURE:

Due to base security measures, all non-military students must be registered in a class that meets at Travis AFB to receive a pass to enter the base. Students already registered for Travis classes will be able to obtain their base pass at the **Visitor Control Center**, 615 Airbase Parkway, located on the left-hand side before the main gates. The office is open Monday through Friday 6:00 am - 9:00 pm. Students will be able to obtain their **base pass the day class begins. Please 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 current driver's license
2. Valid car registration (this must be the vehicle you will drive to class each week)
3. Proof of your enrollment in a class at Travis (your registration printout showing your classes).
4. Travis AFB personnel may require other forms of identification as needed.

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.

If you wish to add a Travis class, you must contact the instructor to obtain an "Add [Authorization] Code" and enroll in the course prior to being admitted to the Base. Once enrolled you must contact the SCC Travis office to inform them.

For additional information or inquiries, please call the SCC Travis Office at (707) 863-7878.

Campus Maps

Vacaville Map

To Winters

To Sacramento

Vaca Valley Pkwy

N Village Pkwy

ANNEX

CENTER

505

80

80

Leisure Town Road

80

To San Francisco

North

0.25 miles
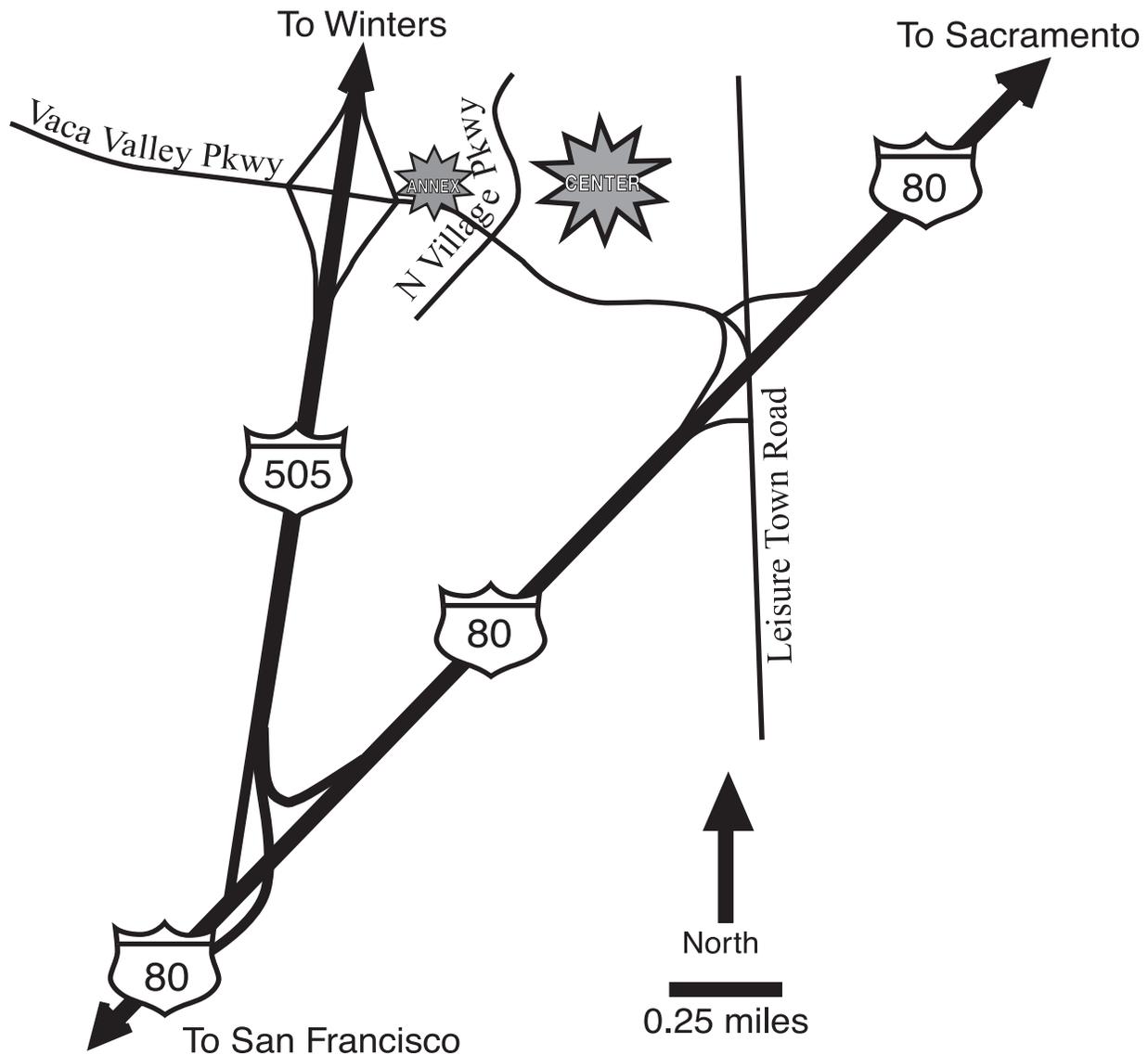
The Solano Community College Vacaville Center is located north of the City of Vacaville at 2001 North Village Parkway. Turn onto North Village Parkway (formerly known as 1990 Akerly Drive), just off of Vaca Valley Parkway. Center information and driving directions are also available on our website, please go to: www.solano.edu/campus_sites/ vaca_center.html

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: Semester parking passes are $20 per vehicle and may be purchased online through your MySolano account. The permit is valid for the Fairfield campus and the Vallejo and Vacaville Centers. Daily parking permits are available for $1 from the machines located in the parking lots. Daily permits are valid for all campus locations.

Campus Maps

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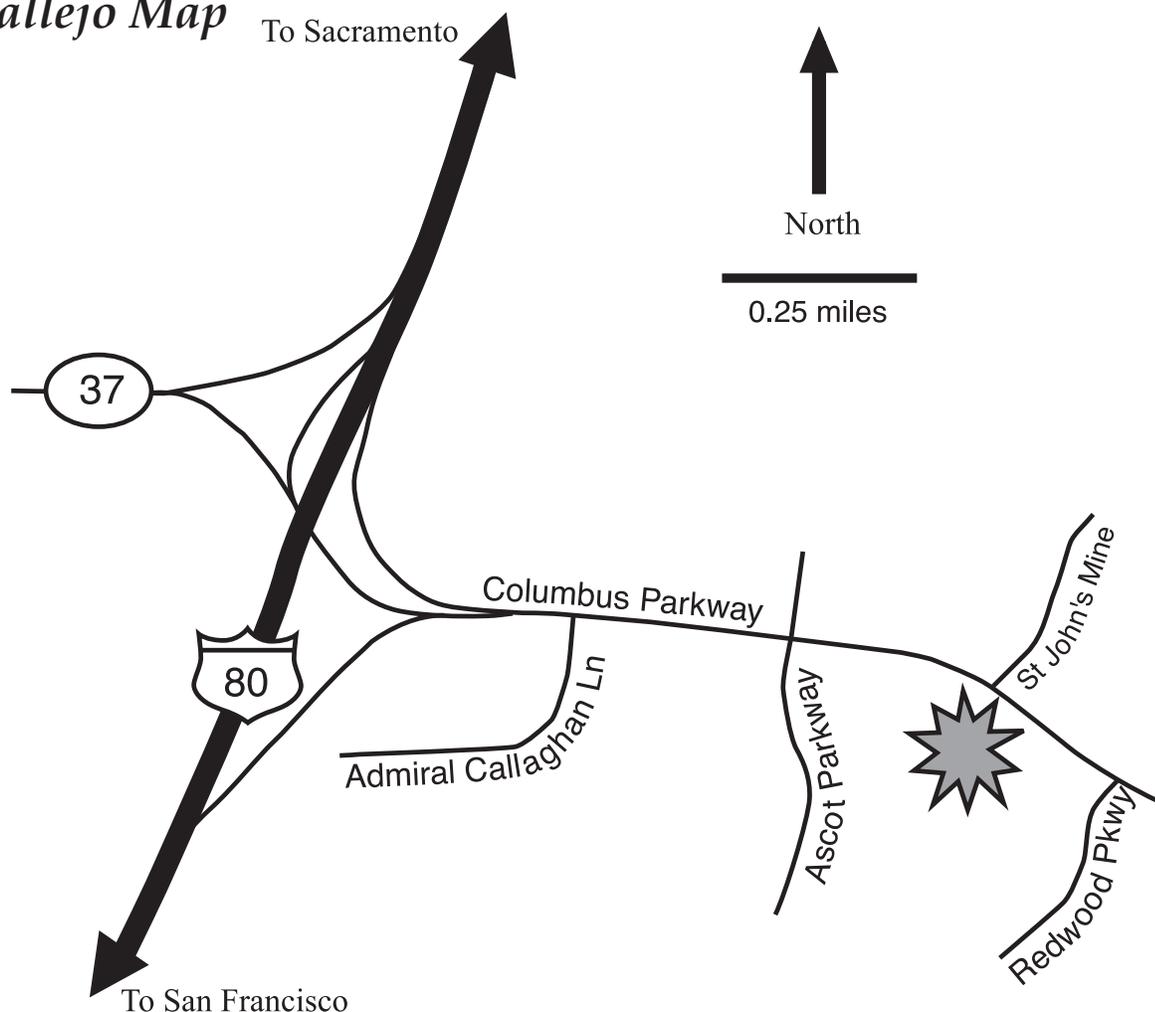
The Solano Community College Vallejo Center is located at 545 Columbus Parkway.

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 your 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 new Solano Community College Vallejo Center is located approximately 1 & 1/2 miles on your right.

Parking: Parking at the Vallejo Center is $20 per vehicle. The permit is valid for the Fairfield campus and the Vallejo and Vacaville Centers. Daily parking permits are available for $1 from the machine located in the parking lot and are valid for all campus locations. Parking is enforced 24 hours a day.

Fairfield Campus

4000 Suisun Valley Road, Fairfield, CA 94534
(707) 864-7000
www.solano.edu

SOLANO
COMMUNITY COLLEGE

(Campus map with the following labels)

Football
Baseball
Softball
Soccer
Tennis Courts
Pool
North
South
Rockville Road
Suisun Valley Road
I-80, 680

Buildings: 1000, 1900, 1800B, 1800A, 1300, 1200, 1100, 900, 800, 700, 1400, 100, 600, 500, 1700, 1700B, 1600, 200A, 1500, 200B, 300, 400

Lots: Lot 6, Lot 4, Lot 2, Lot E, Lot F, Lot D, Lot 5, Lot C, Lot A, Lot B, Lot 3, Lot 1, Visitor

● Emergency Phone
⊗ Parking Permit Machines $1 bills/coins

MAP LEGEND

100 Library/Learning Center
200 Children's Programs
300 Mathematics & Science
400 Student Services
500 Business, Computer Science
600 Administration
700 Liberal Arts
800 Health Sciences
900 Faculty Offices
1000 Horticulture
1200 Music/Theatre
1300 Fine & Applied Arts
1400 Bookstore/Cafeteria/
   Student Union
1500 Engineering/Math
1600 Cosmetology/Fine Arts
1700 Athletics/Kinesiology
1800B Campus Police
1900 Facilities/Warehouse

SERVICES-ROOM

Admission & Records - 400
ASSC & Student Union - 1400
Assessment Center - 442
Boardroom - 600
Bookstore - 1400
Business & Personnel Office - 600
Cafeteria – 1400
CalWORKs - 426
CARE Program - 426
Career & Employment Services - 403
Community Services
   & Training/Vistas – 1638
Contract Education & Training - 151
Counseling - 404
Disability Services Program - 407
EOPS - 426

Financial Aid - 425
Foundation - 433
Information - 401
Instruction Office - 600
Library - 100
MESA Program - 434
Student Health Services -1400
Student Services - 400
Superintendent/President's Office - 600
Theatre - 1200
Transfer Center - 402
Tutoring Center - 437
Veteran's Affairs - 429
Workforce & Economic
   Development - 151

Solano Community College is located on Suisun Valley Road, just off Interstate 80, nine miles northeast of Vallejo (take I-80 east),
and five miles southwest of Fairfield. Buses serve the campus from Vallejo, Benicia, Fairfield, Vacaville and Dixon.

Telephone Directory

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

Academic & Student Affairs. 864-7102
Academic Success Center . . . . 864-7000 X 7282
Aeronautics/Nut Tree 864-7185
Admissions & Records 864-7171
Assessment Center. . . . . 864-7000 x 4525
Athletics 864-7119
Bookstore 864-7111
CalWORKS . . . . 864-7000 x 4645
Cafeteria Office. 863-7887
Campus Police. 864-7131
Campus Police (After Hours) 580-6526
Child Development &
    Family Studies (ECE). 864-7183
Children's Programs/
    Early Learning Center. 864-7182
Community Education. 864-7160, 864-7115
Community Services/
    Facility Rentals. . . . . 864-7000 x 4400
Contract Education & Training 864-7195
Cosmetology Receptionist 864-7180
Counseling & Guidance 864-7101
Criminal Justice Coordinator . . . . 864-7000 x 4703
Disability Services Program 864-7136
English Lab 864-7239
Finance & Administration 864-7147
Financial Aid 864-7103
Fire Academy. . . . . 864-7000 x 4582
Student Health Center & Services 864-7163
Horticulture . . . . 864-4308, 864-7000 x 4550
Human Resources Office 864-7128
International Programs 863-7823
Library 864-7000
    Circulation/Textbooks. . . . . x 7132
    Reference Desk. . . . . x 4519
Lost and Found 864-7168
Maintenance and Operations 864-7197
Math Activities Center (MAC Lab) 864-7138
Nursing Program 864-7108
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
    Math. 864-4490
    Science. 864-7211
    Social & Behavioral Sciences . . . . . . 864-7000 x 7251
Small Business Development Center. 864-5472
Superintendent-President 864-7112
Switchboard (Operator) 864-7000

Special Services:
    EOPS/CARE 864-7145
    Student Life Center 864-7168
    Career Center 864-7124
    Student Services. 864-7173
Travis Air Force Base Center 863-7878
Technology Support Services. . . . . 864-7000 x 4690
Theater Box Office 864-7100
Transfer Center 864-7158
Tutoring Center. 864-7230
    From Benicia/Vallejo 552-4330
Vacaville Center 864-7171
Vallejo Center 864-7171
Veterans Affairs. 864-7105
Workforce & Economic Development 864-7115
Foundation. 864-7177

FAX NUMBERS
Admissions & Records 646-2053
Bookstore 864-1357
Business Office/Fiscal Services 646-2056
Career Center 646-2070
Community Services/Facility Rental 646-2074
Counseling & Guidance 646-2065
EOPS/CARE 646-2069
Financial Aid 646-2071
Fire Science . . . .
Graphics (main fax) 864-0361
Human Resources 646-2075
Maintenance and Operations 646-2051
Nursing. 646-2062
    School of:
        Applied Technology and Business 864-7190
        Health Sciences 646-2062
Liberal Arts 646-2072
Math/Science. 646-2054
Social & Behavioral Sciences 646-7001
Small Business Development Center. 864-8025
Superintendent/President 646-2085
Theater 646-2087
Vacaville Center 646-2089
Vallejo Center 646-2077
Veteran's Office. 646-2092
Work Experience. 646-2080
Workforce Development 864-7115
Parking 646-2095
Campus Police. 646-2052

COLLEGE E-MAIL
You can e-mail Solano Community College faculty
and staff by using this formula: (first name.last name)
@solano.edu. Example: john.doe@solano.edu

FAIRFIELD CAMPUS:
4000 Suisun Valley Road, Fairfield, CA 94534
707.864.7000   FAX 707.864.7175

VACAVILLE CENTER:
2001 North Village Parkway, Vacaville, CA 95688
707.863.7872   FAX 707.646.2089

VALLEJO CENTER:
545 Columbus Parkway, Vallejo, CA 94591
707.642.8188   FAX 707.646.2077