

Solano Community College

2012-2013 CATALOG



Vacaville Center . Fairfield Campus . Vallejo Center

www.solano.edu



2012-2013 General Catalog

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 Director of Human Resources: (707) 864-7122.

ALTERNATIVE MEDIA – This document can be made in alternative formats. For more information, please contact the Alternate media office at (707) 864-7000 ext. 4466 or max.hartman@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 Cosmetology.
- The Aeronautics program is certified by the Federal Aviation Administration (FAA) in accordance with 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.

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)
- North Bay Cooperative Library System (NBCLS)
- Research and Planning Group of California Community Colleges
- Solano County Economic Development Corporation (Solano EDC)
- Solano, Napa and Partners (SNAP) Library Consortium

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!



Jowel C. Laguerre, Ph.D.
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 community college system of 112 campuses in 72 districts across the state. The College's service area encompasses the communities of Benicia, Dixon, Fairfield, Suisun, Vacaville, Vallejo and Travis Air Force Base as well as Winters in Yolo County. Many graduates of the area's 16 public high schools and three private schools take advantage of the educational opportunities offered by Solano Community College.

Solano's classes are held during two semesters each year (spring and fall) and 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.

Mission, Vision, Values and Goals

MISSION

Solano Community College prepares a diverse student population to participate successfully in today's local and global communities.

We accomplish our mission by providing:

- quality teaching
- innovative programs
- effective transfer preparation
- a broad curriculum
- services that are responsive to the needs of our students
- life-long learning
- economic and workforce development

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 data-driven decision making
- **Mutual Respect** — valuing the intrinsic worth of each person in an atmosphere of collegiality
- **Collaboration**— working together across areas of responsibility or interest to achieve common goals and objectives
- **Innovation**— the search for and use of effective processes or procedures
- **Accountability**— individual and collective responsibility for achieving the highest level of performance
- **Student Well-being**— considering and addressing the impact on students of any and all actions or inactions

STRATEGIC GOALS

Goal 1: Foster Excellence in Learning

Goal 2: Maximize Student Access & Success

Goal 3: Strengthen Community Connections

Goal 4: Optimize Resources

Institutional Learning Outcomes

I. Communication

- A. Read
- B. Write
- C. Listen
- D. Speak and Converse

II. Critical Thinking and Information Competency

- A. Analysis
- B. Computation
- C. Research
- D. Problem Solving

III. Global Awareness

- A. Scientific Complexities
- B. Social Diversity and Civics
- C. Artistic Variety

IV. Personal Responsibility and Professional Development

- A. Self-Management and Self-Awareness
- B. Social and Physical Wellness
- C. Workplace Skills

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

Institutional Learning Outcomes

- 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.

Information on posting materials and conducting fund-raising activities is available in the Student Development Office Rm. 1425/1426.

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 wide selection of reference books, study aids, greeting cards, 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: Choose the rental option on select textbooks and save over 50%. Buy used and

save 25% off the new price. Go digital and experience the latest in learning,...nookstudy.

Book Buyback: Get up to 50% back on your textbooks if they are being used in the upcoming term! You can sell your books back 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, Bldg. 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 preference, color, 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. 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

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

WORKFORCE AND ECONOMIC DEVELOPMENT

Solano Community College partners with local business, industry, and agencies to develop training solutions for your workforce. In partnership with you, we assess your training needs and implement optimum training opportunities. The Solano Community College Office of Workforce and Economic Development excels at designing and delivering appropriate and comprehensive customized programs to meet your specific training and education needs.

Employees are every organization's most important resource. As processes, procedures, products, and goals change, employees need new and upgraded skills. Through a careful needs assessment we:

- Identify your real workplace needs
- Customize solutions specifically for your business and employees
- Implement training on a schedule and at a site that best meets your organization's requirements
- Offer excellent instruction, as well as a variety of delivery method.
- Evaluate the training to assure that there has been a transfer of skills and knowledge from the training environment to the workplace
- Provide cost effective training and services

For information and a free needs assessment, please call or email **Deborah Mann** at (707) 864-7195 or deborah.mann@solano.edu

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 the 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 and spring semesters Monday, Tuesday, Thursday and Friday from 9:30 a.m. to 1:00 p.m. and 5:00 p.m. to 8:00 p.m. in Building 1600, Room 1610. All work is done by students only with instructor supervision. Appointments are appreciated but not required. For more information, please call (707) 864-7180 day and (707) 863-7849 evening appointments.

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., Rm 1109.

A DRUG-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: The unlawful sale, possession, use, or distribution of any drug or substance controlled by State or Federal law on District or College-controlled property or at any District or College-sponsored or supervised function. Such drugs or substances include but are **not** limited to legally controlled hallucinogenics, narcotics, depressants, stimulants, marijuana and its products, toluene, and alcoholic beverages. Additionally, such controlled substances, as defined in the California Education Code (§87011 and §88022), include: cocaine, LSD, heroin, methadone, mescaline, peyote, and methaqualone, among others.

General Campus Information

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 more detailed information and a listing of assistance programs (including on-campus meetings of Alcoholics Anonymous and Al-Anon), contact:

Student Health Center - Room 1409

Counseling Department - Building 400

Enabling Services - Room 407

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.

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 must be purchased online at www.solano.edu. Parking permits are required each semester and during summer sessions. The cost is \$20 per vehicle for Fall and Spring semesters and \$6 per vehicle during Summer session. Permits must be completely and clearly visible (semester and permit # or date and time for daily 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 students park on campus. If the permit dispensers malfunction, notify the Police in Room 1109 immediately. If a dispenser is out of service, you must purchase a permit in an adjacent lot. Daily parking permits are valid in lots 1-6 and 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.

Rideshare 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 cannot 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.

General Campus Information

Visitor Parking: Limited 30-minute visitor parking stalls are available at the 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.

Fairfield Campus: 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 disabled persons. Student parking is provided in Lots 1-6. The California Vehicle Code and District parking regulations are enforced by the Solano Community College Police Department.

Vacaville and Vallejo Centers: A parking permit is required to park at both the Vacaville Center and the Vallejo Center. Parking permits cost \$20 per vehicle and are required each semester. Summer session fees are \$6 per vehicle. Daily permits (\$1 per day) may be purchased at the Vacaville and Vallejo sites.

Parking Enforcement: During the first two weeks of the Fall/Spring semester and during the first week of Summer session, parking permits are not enforced in general parking lots 1-6. 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.

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. 600), and at the Information Booth (Bldg. 400). An Amnesty Program and an appeal process are available to contest parking citations. For more information regarding parking, access our Web site at www.solano.edu/police or email us at sccpd@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 weekly bulletin, the ASSC Newsletter, and a weekly campus newspa-

per, *The Tempest*. The College also maintains a Web site with current information on classes, 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 1109. 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.

General Campus Information

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 1109 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.

SMOKE-FREE CAMPUS/WORKPLACE

For reasons of health and safety, Solano Community College District does **not** permit smoking in any campus building; smoking is only permitted outside and more than 20 feet from building entrances. (Board Policy §4215). It is the responsibility of all students and employees to observe this policy. Violation of this policy could lead to disciplinary action under usual disciplinary procedures. (This policy does **not** supersede more restrictive policies that may be in force in compliance with State or Federal regulations.)

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 **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.

General Campus Information

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 correctness 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 Dean 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.

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 Solano Community College District is committed to the principle that all students equally achieve their educational goals.

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 Director of Human Resources, building 600. 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 Director of Human Resources, building 600.

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 Director of Human Resources, building 600.

General Campus Information

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

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

Examples of Sexual Harassment:

1. Making unsolicited verbal, physical, written, and/or visual contact of a sexual nature.
 - 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 Director of Human Resources. Immediately following notification to the supervisor or school official, the party shall notify the Director 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 Director of Human Resources immediately.

General Campus Information

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 INFORMATION

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.

In conformance with the "Student Right-to-Know Act" of 1990, completion and transfer rate statistics can be viewed at <http://srtk.cccco.edu/index.asp> or are available in the offices of the Vice Presidents of Academic Affairs and Student Services, and the office of the Associated Students of Solano College. Additional information is also available on the College's web site in the Research and Planning area under the title "Student Information and Statistics."

Student Services

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 Development Office (Room 1425) concerning requirements for holding a student government office. The A.S.S.C. meets weekly 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 Development 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

Your Path to Success begins with Solano College's CalWORKs program. We offer programs designed to prepare CalWORKs students for entry-level jobs and career opportunities combined with extensive coordinated services to assist in the transition from welfare to long-term self-sufficiency. Solano's CalWORKs program can help you access:

- Childcare
- Financial aid
- Counseling
- Assistance with transportation
- Work readiness skills
- Workstudy
- Assistance with job search and placement

Solano College's CalWORKs training programs are approved by the Solano County Department of Health & Social Services. To begin your journey to success call (707) 864-7000, ext. 4645 or 7252, or stop by Room 426 on campus.

CHILDREN'S PROGRAMS

The Solano Community College Children's Programs provide child development and childcare services for children of student parents and from the neighboring community. The program is also the early childhood education laboratory school for students studying early childhood education.

We are open for child care from 7:45-3:30 Monday through Friday, serving children between the ages of 1 and 5 in part day and full day programs.

To place your child on the subsidized or non-subsidized 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 house. To support the consistency and structure that children need, we emphasize a consistent enrollment schedule for each child. We do not provide drop in child care services

High quality, developmentally appropriate services are provided daily by well-qualified, dedicated teachers. Early childhood education 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.

Stop by to visit the Children's Programs in building 200 on the Fairfield campus. The office staff is available to assist you Monday – Friday from 8:00 – 4:00. You may also call 864-7182 for more information.

Student Services

CARE PROGRAM (Cooperative Agency Resources for Education)

The CARE Program provides additional support services to EOPS students. To be eligible you must be an EOPS student and receiving the Pell grant, at least 18 years of age and a single parent head-of-household, a current recipient of TANF/CalWORKs cash aid or their dependent child/ children are currently receiving cash aid, have at least one child under 14, and be enrolled full-time at Solano Community College.

Support services include: reimbursement with child care expenses, textbooks and supplies, and transportation costs; meal reimbursement, academic counseling, and personal development activities and workshops. Amount of assistance depends on the level of State funding to SCC.

For more information, contact the EOPS Office in Room 426, or call (707) 864-7000, ext. 4444; from Vallejo/Benicia call (707) 552-4330, ext. 4444.

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 advised to consult with a counselor prior to each registration period.

All new students are expected to meet with a counselor prior to enrolling in classes if they are new non-exempt students (see Exemption criteria listed under "Matriculation"), choosing one of the following educational goals at the time of application:

- Transfer to a 4-year college with Associate Degree
- Transfer to a 4-year college without Associate Degree
- Associate Degree, Vocational, without transfer
- Associate Degree, without transfer
- Vocational Certificate
- Job skills - to prepare for a new job
- Undeclared goal
- Discover/formulate career interests, plans, goals
- Improve basic skills in English, reading or math

In addition, 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/counseling_services.htm
3. Call the campus where you would like to make the appointment.

Main Campus (707) 864-7101

Vallejo Center (707) 642-8188

Vacaville Center (707) 863-7872

Travis Air Force Base (707) 863-7878

ENGLISH AS A SECOND LANGUAGE (ESL) LAB

The English as a Second Language Department operates an ESL Lab in Room 130 of the Library/Student Services Building to provide listening comprehension and pronunciation 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 3 units.

EOPS PROGRAM (Extended Opportunity Programs & Services)

The EOPS Program is a state funded categorical program that offers "over and above" services to eligible EOPS students who are both economically and educationally disadvantaged. Additional eligibility criteria for the EOPS Program includes:

1. Be a California resident.
2. Be enrolled in 12.0 semester units at Solano College.
3. Qualify and receiving the BOGFW A or B.
4. Be educationally disadvantaged according to State defined Title V Education Regulations.

Services offered to eligible students: academic, career, and personal counseling; develop a roadmap for students to achieve their educational goals on-and-off campus; referrals; assistance in preparing to transfer to four-year colleges and universities; EOPS newsletter; EOPS orientation; priority registration; registration assistance; progress reports; year end celebration; workshops; and EOPS book voucher during the fall and spring semester.

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.

Student Services

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.

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.

Be aware that application processing may take up to 10 weeks after completing and submitting additional “Student Requirements” (forms and documentation) to the Financial Aid Office. 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 coming soon!
- 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 coming soon!
- Meet the following 2012-2013 Income Standards:

Family Size (Number in household including self)	2011 Income
1	\$16,335
2	\$22,065
3	\$27,795
4	\$33,525
5	\$39,255
6	\$44,985
7	\$50,715
8	\$56,445
Each Additional Family Member	\$ 5,730

- These 2012-2013 Income Standards are based upon the federal guidelines, as published each year by the U.S. Department of Health and Human Services. Under Title 5 of the California Education Code of Regulations, the student or the student’s family must have a total income in the prior year (in this case 2011) that is equal to or less than 150% of the U.S. Department of Health and Human Services Poverty Guidelines based upon family size.
- The U.S. Department of Health and Human Services published the 2011 Poverty Guidelines in January 2011 (Federal Register/Vol. 76, No. 13/Thursday, January 20, 2011/Notices).
- These income standards are for the 2012-2013 academic year and are to be used to determine BOGFW-B eligibility EFFECTIVE July 1, 2012.

Student Services

BOG Fee Waiver C:

- Be a California resident.
- Apply with the 2012-2013 FAFSA (Free Application for Federal Student Aid) online at www.fafsa.gov.
- Demonstrate minimum need threshold of \$1,104.00 based upon FAFSA data.
- The “minimum need” threshold will be established annually by the California Community College Chancellor’s Office. The minimum need threshold shall be in effect beginning Summer 2012—Spring 2013 term.

CCCApply online BOG Fee Waiver application is coming soon for **BOG Fee Waiver A & B!** Refer to www.solano.edu, click “Financial Aid” for the paper application or for the latest information about the CCCApply online BOG fee waiver application coming soon!

AB-540 Students-

The California Dream Act of 2011 (AB130/131) provides undocumented and documented students who meet certain provisions 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), the BOG fee waiver application will become available. Find out more details at www.solano.edu, click “Financial Aid,” then “Fee Waiver,” or “Scholarships” after November 2012.

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 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.
- 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.

Student Services

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 stan-

dard 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 75% 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.

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 usually 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

Student Services

- 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” 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.

INTERCOLLEGIATE ATHLETICS

The Intercollegiate Athletics Program is governed by the California Community Colleges 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)

MEN AND WOMEN

ATHL 010 Intercollegiate Swimming/Diving (S)
ATHL 020 Intercollegiate Water Polo (Fall)

*One unit, nine week courses only.

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.

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, PowerPoint, and the Web. It also contains a Bibliographic Instruction Classroom accommodating students in library orientations and workshops as well as Information Competency, Research and Web Searching courses. Independent and group study/work spaces are available as well.

The Library is open Monday through Friday, 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.

Student Services

MATHEMATICS, ENGINEERING AND SCIENCE ACHIEVEMENT (MESA)

The MESA program offers a wide range of support for students planning to transfer to a university in math, science or engineering. 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.

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 www.solano.edu/mesa.

OCCUPATIONAL WORK EXPERIENCE

Occupational and General Work Experience opportunities and credit are provided for eligible students. Requirements for participation are found under Occupational Education in the course listing section of this catalog. A maximum of 8 units per semester and 16 units of total credit is available through this program (not all unit options are available every semester. Please check current course schedule for unit offerings). Occupational and General Work Experience may not be taken concurrently. For information and assistance, contact the Work Experience Office, Room 1811, or telephone (707) 864-7139, or e-mail debra.berrett@solano.edu. Additional information may be found at: <http://www.sccworkexperience.com>.

PUENTE PROJECT

Solano Community College is one of 75 community colleges participating in the Puente Project, a one-year writing, counseling and mentoring program open to all students. Puente's main objective is to empower students to access four-year colleges and universities. The Puente Program has three main components:

- 1) A rigorous one-year writing program, ENGL 370-English Fundamentals and ENGL 1-English Composition. These classes provide a supportive and stimulating environment for Puente students to build confidence in writing skills.
- 2) Focused counseling services, COUN 007-College Study Techniques and COUN 050-Career/Life Planning. 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.

READING LAB

THE READING IMPROVEMENT LAB (English 320)

The Reading Improvement Lab (English 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 including students not enrolled in any other English classes. Any Solano College student may enroll in this class. This class focuses on reading foundation skills with individualized instruction providing an opportunity to address specific reading needs.

THE WRITING SKILLS LAB (English 310)

The Writing Skills Lab (English 310) is an open-entry, open-exit class offering individualized instruction in writing skills. The Lab is especially designed to serve independent students not enrolled in any other English classes. The Lab is designed to serve all Solano College students, especially including students not enrolled in any other English classes. Assignments are based on individual needs and will vary for each student.

Student Services

SCHOLARSHIP FOUNDATION

The Solano College Scholarship Foundation is a non-profit corporation that awards scholarships to students at Solano Community College on the basis of their academic achievement and demonstrated potential for excellence. The Foundation is administered by a Board of Directors with representatives 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 the fall of 2009 over 60 awards were presented and over \$25,000 was distributed to Solano students. The goal of the Scholarship Foundation is to promote academic excellence among Solano students by recognizing 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 Foundation administers two scholarship programs, the General Scholastic Achievement Program and the Memorial and Special Endowments Program. Each of these scholarships has been established to honor and commemorate specific individuals or purposes. Most have designated majors and/or other specific qualifying requirements that determine eligibility for consideration.

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)

Jean Chapman Scholarship (Science)

Naomi "Chris" Christensen Memorial (Music)

Joe Clevenger Tribute Scholarship (Business Administration)

James "Jim" Cooper Memorial (Business)

John and Carol DeKloe Biotechnology Scholarship

Ray O. Duey Memorial (Registered Nursing)

Eddie Edwards Memorial (Re-entry)

Fairfield-Suisun Twilight Rotary Club (Business or related major)

Jane H. Ford Memorial (English)

Robert D. Ford Memorial (Science)

Gilbert Memorial (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 Nursing Award

Peggy 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 (Athlete who plans to transfer)

Hosley Family Scholarship (Academic Excellence/Transfer)

Margaret Lee Jenkins Memorial (Cosmetology)

Math and Science Instructors' Scholarship

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)

William Michaels Memorial (History or Vocational Education)

Jim Mills Scholarship (Biotechnology)

Martin Mini Memorial

Diana Muir Memorial (Re-entry, English)

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, Solano Group, Scholarship (Environmental Concerns)

Dennis Stevens Memorial

Taylor Memorial (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

Lawrence "Jack" Wheeler Memorial (Counseling)

Bill and Jean Wilson Memorial (Leadership/Service, Athletics)

Morgan "Porky" Wood Memorial (Athletics)

For additional information, please visit the Solano College website at http://www.solano.edu/president/scholarship_foundation.html, contact the Scholarship Foundation, at PO Box 2208, Fairfield, CA 94533 or phone (707) 425-4590.

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 Services

STUDENT ACTIVITIES TRANSCRIPT

The Activities Transcript is an opportunity for SCC students to document college sponsored involvement, service, and volunteerism beyond the classroom. This transcript, bearing the official College seal, is offered free to students. For more information, please contact the Director of Student Development at (707) 864-7168, or pick up a packet from Room 1425/1426.

STUDENT CLUBS

A wide range of clubs and organizations reflecting cultural, social, ethnic and academic interests are active on the campus. Announcements of meetings and activities are available from the Student Development Office, Room 1426, 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 Director of Human Resources, Room 616, ext. 7122. The Director 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 415/556-4275; California Community College Chancellor's Office at 916/445-8752, and Equal Employment Opportunity Commission at 415/356-5100.

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 Student Development Office (Room 1426), the Vice President of Student Services (Room 433), and the Counseling Office (Student Services Building). 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.

***At time of printing, this policy and procedures were under review and it was anticipated there would be changes. See web site for current policy and procedures, or contact the VP of Student Services Office, Bldg. 400, Fairfield Campus.*

STUDENT CONDUCT & DISCIPLINE 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, placed on social probation or given a lesser sanction may come within, but is **not** limited to, one or more of the following categories:

- Failure to comply with the directions of District or College officers or employees acting in the performance of their duties; or violation of District or College policies or regulations.
- Violating District regulations concerning the registration of student organizations, use of College facilities, and the time, place or manner of public expression, distribution of leaflets, pamphlets or other materials.
- Academic dishonesty, such as cheating or plagiarism.
- Forgery, alteration, misuse, misappropriation or theft of College papers, documents, records or identification or knowingly furnishing false information to the District or College or its officers or employees.
- Disruption or obstruction of classes, meetings, disciplinary proceedings, or other authorized functions or activities of the District or College, whether conducted on the Solano Community College campus or elsewhere including, but not limited to, the use of

Student Services

headsets, MP3 players, cellular telephones or pagers in the classroom.

- Abusive behavior directed toward, or hazing of, a member of the campus community on or off campus property, including verbal abuse, harassment, intimidation, or the threat of abuse, to the person or property of any member of the campus community, or of members of his or her family.
- Engaging in disorderly conduct, gambling, lewd, indecent, obscene or offensive behavior on District-owned or controlled property or at any District or College-sponsored or supervised function or activity.
- The unlawful sale, possession, use or distribution of any drug or substance controlled by state or federal law on District or College controlled property or at any District or College sponsored or supervised function. Such drugs or substances include but are **not** limited to legally controlled hallucinogenics, narcotics, depressants, stimulants, marijuana and its products, toluene, and alcoholic beverages. This regulation does not apply to lawful possession of prescription drugs by the person named on the prescription or possession of contraband drugs or substances by peace officers and College instructors for use as evidence or teaching aids.
- Theft of, or intentional damage to, campus property, or property in the possession of, or owned by, a member of the campus community, or theft of software by copying. Unauthorized entry into, unauthorized use of, or misuse of campus property to include "computer piracy," which is unauthorized entry into information which is campus property.
- Illegal operation of a motor vehicle on the Solano Community College campus.
- Possession or use of explosives, dangerous chemicals or deadly weapons on campus property or at a college function.
- Violation of any order of the Superintendent/President, notice of which had been given prior to such violation and during the academic term in which the violation occurs, either by publication in the campus newspapers, or by posting on an official bulletin board designated for this purpose, and which order is not inconsistent with any other provision of this Section.
- Soliciting or assisting another to do any act which would subject a student to expulsion, suspension or probation pursuant to this Section.
- Littering on campus property including grounds, facilities and parking lots.
- 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.

Types of Disciplinary Action: There are several types/levels of discipline that may be imposed for violations of the policies or the Rules and Regulations of the District or College:

- Official Warning
- Reprimand
- Social Probation
- Restitution
- Suspension by Teacher
- Emergency/Summary Suspension
- Disciplinary Suspension
- Disciplinary Probation
- Expulsion

The definition, process and implication of each of these are detailed in the District's procedures on "Student Conduct and Discipline (§5300)," available in the Student Development Office (Room 1425/1426), the Vice President of Student Services Office (Room 433), and the Counseling Office (Building 400).

Student Disciplinary Procedures: The Vice President of Student Services 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 "Student Conduct and Discipline (§5300)" are available free, upon request, from the Vice President of Student Services Office (Room 443).

STUDENT DEVELOPMENT OFFICE

The Student Development 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 Development Office supports an active student government program and encourages students to use the many services provided by the College.

The Student Development 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.

Student Services

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 computer technology, audio books, notetakers, specialized equipment, and faculty and community liaison. An adapted physical education program, which is individualized to the student's needs, is also offered.

The College campus is ideal for the student with physical disabilities. All rooms are on the ground level with many accessible restrooms and ramps. The DSP maintains a working relationship with the 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.

Learning Disability Center: Solano College offers thorough testing to determine learning strengths and weaknesses for a student with a possible learning disability. This leads to a comprehensive evaluation for services, Learning Skills classes, and to help with college success. Classes focus on learning strategies and all services stress access to the college experience. For more information contact the Learning Disability Specialist, (707) 864-7234.

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, telephony, 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 Development Office, Room 1425/1426. Also, bus schedules are available on the college Web site at www.solano.edu.

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 \$2.50 cost for this express service. Please visit our website for additional information at www.solano.edu then click on the Admissions link.

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.

WRITING SKILLS LAB

The English Department operates the Writing Skills Lab in Room 130 of the Library building to assist students with problems in basic grammar, sentence structure, spelling, punctuation, and vocabulary. Any student can enroll in English 310, Writing Skills Lab, and earn .5 to 1.5 units per semester to a maximum of 3 units of credit depending on learning modules completed. Students may also register for English 64, Writing the Research Paper, and earn from .5 to 1.5 units.

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 for the prior semester, or
3. An international student, or
4. A student in grades K-12 enrolled in a public or private school seeking special admission.
5. All students should apply online at www.solano.edu/mysolano.

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.

At the time of printing, the Special Admission process was under review with changes expected to happen in 2012-13. Please visit the A&R website for current information, <http://www.solano.edu/oar/>

Admission and Registration

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 ww.solano.edu then click on the Admissions link.

INTERNATIONAL STUDENT ADMISSION*

Solano College admits international students each year. 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 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 \$189 per unit plus the \$46.00 per unit enrollment fee for the 2012-12 school year. All fees are subject to change by the Board of Governors.

Email to international@solano.edu for additional information.

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 a 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 the ever-increasing occurrences of identity theft.

TRANSCRIPTS FOR ADMISSION

The following students are **required** to submit official transcripts from all 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.
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 website www.solano.edu for transcript information. Click on the Admission, Registration & Records link, then click on Transcript for additional help, or email us at admissions@solano.edu.

*Subject to change

Admission and Registration

Transfer of Credit From Other Colleges

Only those courses from accredited colleges may be accepted for transfer to a degree or certificate program.

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 reading 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 service, you should plan on completing the matriculation process in the following sequence:

- 1) Complete and file an "Application for Admission" 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 counselor 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. The Assessment Center schedules all matriculation tests. The Center is located in Building 400, Room 442. The schedule for testing is Mon/Tue/Thur/Fri 9 am or 1 pm, Wed 1 pm or 5 pm. Schedule your test on line at <http://www.solano.edu/counseling/assessment.html>, and at the Assessment Center Office. 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 Admissions 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, Vallejo, (707) 642-8188. Travis University Center is located at 530 Hickam, Travis AFB, (707) 863-7878. The Vacaville Center is located at 2001 Akerly Drive, Vacaville, (707) 863-7872.

In addition to the sites listed above, each semester there are classes offered at many other locations. Students should consult 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 University Center, and the Vacaville Center. Further information 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.

PHOTO-IDENTIFICATION CARD (\$5.00)

A photo-identification card is required of all students who take courses on campus, except students who enroll in fee-based courses offered by Community Services. The card is to be carried by the student at all times 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. There is no charge for the validation. Student ID cards may be obtained in the Student Development Office, Room 1425/1426 (Bldg. 1400).

Admission and Registration

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/oar.

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/oar.

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 11-12 academic year, effective the first day of the summer session, 2011, is \$197 per unit. All non-resident students are also required to pay enrollment fees.

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 fee for on-campus students: A \$20 fee per vehicle.
- Student transcript record fee: \$2 (first two are free); \$7.50 Express service; \$1 unofficial transcript.
- Student enrollment verification record fee: \$2.50 (first two are free). Express service through the National Student Clearinghouse: \$2.50.
- 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).
- 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).

Admission and Registration

- Diploma mailing fee: \$3
 - Certificate of Achievement mailing fee: \$1
 - Instructional and required materials fees: See the Schedule of Classes.
 - Duplicate fee receipt or unofficial transcript: \$1
- * 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 20 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 NonResident 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.

Academic Regulations

ACADEMIC COUNCIL

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

1. The Academic Council consists of the following membership: Vice President of Academic and Student Affairs (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 Vice President of Academic and Student Affairs 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, Counseling Department, the Vallejo and Vacaville Centers or online.
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 Academic and Student Affairs may vote to break the tie.
7. The Academic Council meets to review disqualification and other petitions for the upcoming term and 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. The counselor may be asked to present a student petition to the Council. Students may be required to provide medical/legal or other documentation to support their petition.
9. Each student who petitions the Academic Council is notified in writing, by the Director of Admissions & Records or the Vice President of Academic and Student Affairs concerning the action taken by the Academic Council on his/her petition.
10. As this is an appeal process, all decisions of the Academic Council are final and may not be appealed to the Superintendent/President or the Governing Board.
11. The office of Admissions and Records is notified, and maintains a record of all Academic Council decisions. Coordinators of special programs (e.g. EOPS, DSP, etc.) will be notified of Academic

Council decisions regarding students who are participants in a special program.

12. The Academic Council Petition for each student is filed in his/her permanent electronic academic records file with a copy of the Academic Council's action.

(Reference: Student Services Policy and Procedures 5200)

STANDARDS FOR PROBATION AND DISQUALIFICATION

This policy and procedure is currently under review and likely to change during the 2012-13 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, or be disqualified. (Reference: Student Services Policy and Procedures 5100) For purposes of probation and dismissal, semesters shall be considered consecutive, not in their calendar order of succession, but in the order in which a student enrolls in them. The semester in which performance causes one to be placed on probation is the first probationary semester.

This policy is currently being revised. 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 one (1) or more of the following reasons:

1. A student has attempted at least 12 total semester units and has achieved a cumulative grade point average of less than 2.0.
2. A student is readmitted to college after academic disqualification.

B. Removal from Academic Probation

A student on academic probation is removed when his/her cumulative GPA is 2.0 or higher.

Progress Probation

A. Placement on Progress Probation

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

1. A student has enrolled in a total of at least 12 semester units and received transcript entries of "W", "I", or "NC" for 50% or more of all units attempted.

B. Removal from Progress Probation

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

Academic Regulations

Academic Disqualification

Academic Disqualification may result in dismissal.

Dismissal prohibits the student from enrolling until one academic semester has passed.

A. Placement on Academic Disqualification

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

1. A probationary student's cumulative grade point average at Solano Community College remains below 2.0 for three consecutive semesters.
2. A probationary student receives 50% or more of transcript entries as W, I, or NP for three consecutive semesters.
3. A student achieves a semester grade point average of less than 2.0 for three consecutive semesters.

B. Removal from Academic Disqualification

A student will be removed from academic disqualification for any of the following reasons (unless any condition in A. above continues to exist):

1. Satisfactory Progress After Disqualification

A student who meets the requirements for readmission after disqualification and achieves a semester GPA of 2.25 or greater, but does not have an overall cumulative GPA of 2.00 or greater, shall remain on academic probation until the cumulative GPA is 2.00 or better. (This condition only overrides A.1. above.)

2. A student's cumulative GPA is 2.0 or better.
3. A student's transcript entries of W, I, or NP are less than 50% of all units attempted.

PROBATION AND DISQUALIFICATION PROCEDURES

1. Students will be placed on Academic Probation when the total units in which grades of A, B, C, D and F were received at Solano Community College is 12 or more and the calculated grade point average is less than 2.0 for either the semester or cumulative GPA.
2. Students will be placed on Progress Probation when the total units enrolled is 12 or more and for which entries of I, W, or NP equals or exceeds 50%. (For purposes of Progress Probation, transcript entries of A, B, C, D, F, W, I, P and NP are counted for units enrolled.)
3. Students placed on probation will be notified on the student grade report. Students that are disqualified will be notified by the Admissions and Records office.
4. The student on probation should see a counselor to review academic standards for maintaining satisfactory progress.

5. Students who are dismissed for poor academic achievements must petition the Academic Council for readmission. A petition may be filed if extenuating circumstances exist which caused the substandard grades, or the student must remain out of school for one semester excluding a summer session.
6. A Counselor will review academic standards with the student and recommend readmission after disqualification. The petition for readmission must contain written comments from the Counselor prior to review by the director of Admissions & Records. The Academic Council will hear appeals and recommend conditions of readmission or denial of readmission.
7. Students that have been readmitted after disqualification and achieve a semester GPA of 2.25 or greater with no transcript entries of W, I or NP and whose cumulative G.P.A. remains under 2.0, will be automatically readmitted for the ensuing term.
8. For purposes of progress probation, the total units enrolled will begin to accumulate with the Summer 1996 term.

ACADEMIC RENEWAL

Pursuant to regulations established by the Board of Governors of the California Community Colleges, students may petition for the elimination of past substandard 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 an accredited post-secondary

Academic Regulations

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 eligible.
 5. Solano Community College may honor the Academic Renewal Policy of other accredited institutions in disregarding previous academic work.
 6. Students should understand that other colleges may not honor the Academic Renewal Regulations of Solano College.

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 auditor 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.)

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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 credit/nocredit 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 are available in Room 1425/1426 in the Student Center. For detailed membership information contact one of the AGS advisors: Dorothy Hawkes at (707) 864-7202 or Diane White at (707) 864-7285.

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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 PTK Advisor: Dr. Shirley Lewis, (707) 864-7237.

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, the college was in the process of reviewing changes in the Education Code about repeatability - there are anticipated changes to these policies and procedures. 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 and obtain approval from the Academic Council prior to enrolling in the course. Grades awarded for courses repeated under these circumstances shall not be counted in calculating a student's grade point average. Students planning to transfer to a four-year institution should check that institution's policy on repeated courses.

To improve a grade: Students receiving a grade of D, F or NP may repeat the course immediately except for courses in impacted programs. When a course is repeated to improve a grade, the subsequent grade is used in determining the student's grade point average.

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 constitutes 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. This permission is granted by the **Academic Council**. 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 (Recom- mended)	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

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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 Office on campus. After classes begin, students are required to notify the Veterans' Affairs Office 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 Office 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 30% 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 30% of the class will not appear on the student's record. Courses dropped 31% 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:

Plagiarism consists of taking the exact words or the specific substance, structure or ideas of another and passing these words or ideas off as one's own in any academic exercise. The following examples are some of the many forms plagiarism may take.

1. Submitting a term paper, examination or other work written by someone else. This includes extended paraphrasing of another's work or research. This is a flagrant instance of plagiarism.

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2. Failure to give appropriate credit for ideas, statements of facts, conclusions, or exact words derived by another either in the text or as a footnote.
3. Failure to use quotation marks or appropriate indents when using the exact words of another, whether it be a paragraph, a sentence or even a portion thereof.
4. Usage of any electronic media without providing proper citations, including the Internet, email, copied postings, or any other source of information available electronically.
5. The citing of a source which does not reasonably conform to these expectations, such as another plagiarized or otherwise undocumented paper or other resource.

Plagiarism can, in some cases, be a subtle issue. Any questions about what constitutes plagiarism should be discussed with the faculty member or a Solano Community College faculty librarian.

Cheating:

Cheating is the usage of unacknowledged or unauthorized notes, materials, information, calculators, electronic devices, or study aids in any academic exercise. Cheating also includes: using information from another student or student's paper; altering a graded work after it has been returned then submitting the work for re-grading without instructor permission; submitting another's work under one's own name. Students must not request others (including commercial term paper companies) to conduct research for them. Students may be restricted from leaving the classroom during an exam period.

Fabrication:

Fabrication is the falsification of any information or citation in an academic exercise. Fabrication includes presenting data not gathered in accordance with guidelines defining the appropriate methods for collecting or generating data or failing to include an accurate account of the method by which the data were generated or collected. "Invented" information may not be used in any laboratory experiment or other academic exercise without authorization from the instructor. The student must also acknowledge reliance upon the actual source from which cited information was obtained. A writer should not, for example, reproduce a quotation from a book review and indicate that the quotation was obtained from the book itself.

Facilitating Academic Dishonesty:

Students who knowingly or negligently allow their work to be used by other students or who otherwise aid another student in violating Academic Integrity are

guilty of Academic Dishonesty even though they may not benefit directly from the violation. Facilitating Academic Dishonesty includes making one's research, notes, essays or other work available for other students to access such as uploading one's work to the Internet or making it otherwise available.

Denying Others Access to Information:

It is a violation of Academic Integrity to deny others access to scholarly resources, or to deliberately impede the progress of another student or scholar. Examples of offenses of this type include: giving other students false or misleading information; making library material unavailable to others by stealing or defacing books or journals, or by deliberately misplacing or destroying reserve materials; or altering computer files that belong to another.

Forgery, Alteration or Misuse of Campus Documents, Records, or Identification or Knowingly Furnishing False or Incomplete Information to a Campus:

It is a violation of Academic Integrity to alter documents affecting academic records. It is also a violation to forge a signature of authorization or to falsify information on an official academic document, election form, grade report, letter of permission, petition, or any document designed to meet or exempt a student from an established College academic regulation.

Sanctions:

All violations of Academic Integrity are subject to an appropriate penalty. Violations at Solano Community College are classified into three levels according to the severity of the infraction and the discretion of the instructor and/or Vice President of Student Services. For each level of violation, a corresponding set of sanctions is recommended. These sanctions are intended as general guidelines as culpability may be assessed differentially for those with more and less experience as members of the academic community. Examples are cited below for each level of violation. These examples are illustrations and are not meant to be considered all-inclusive. Any violation of Academic Integrity which occurs within the classroom or the context of a particular class may incur Level One or Level Two sanctions at the discretion of the instructor. The instructor may also choose to refer the student to the Office of the Vice President of Student Services for possible further action at the discretion of the Vice President of Student Services, including Level Three sanctions. To refer students to the Office of the Vice President of Student Services, faculty may contact the Office of the Vice President of Student Services directly or use the Solano Community College Academic Dishonesty Report Form.

Academic Regulations

Level One Violations

Level One violations may occur due to inexperience or lack of knowledge of principles of Academic Integrity.

These violations are likely to involve a small fraction of the total course work, are not extensive, and/or occur on a minor assignment. Such infractions might include:

1. Working with another student on a laboratory or other homework assignment when such work is prohibited.
2. Failure to footnote or give proper acknowledgment in an extremely limited section of an assignment.

Recommended sanctions for Level One violations may include one or more of the following:

1. Requiring the student to complete additional academic assignments which may be at a more difficult level than the original assignment.
2. Awarding a failing grade for the assignment.
3. Imposing other sanctions of similar severity at the discretion of the instructor and/or the Vice President of Student Services.

Records of students who commit Level One offenses will be maintained in the Office of the Vice President of Student Services.

Level Two Violations

Level Two violations are characterized by dishonesty of a more serious character or which affects a more significant aspect or portion of the course work. Examples of Level Two violations might include:

1. Quoting directly or paraphrasing to a limited extent without acknowledging the source.
2. Submitting the same work or major portions thereof to satisfy the requirements of more than one course without permission from the instructor.
3. Using data or interpretative material for a laboratory report without acknowledging the sources or the collaborators.
4. Receiving assistance from others, such as research, statistical, computer programming, or field data collection help that constitutes an essential element in the undertaking without acknowledging such assistance in a paper, examination or project.

Recommended sanctions for Level Two violations may include one or more of the following:

1. Awarding a failing grade for the assignment.
2. Awarding a failing grade for the course if the assignment was valued at more than 1/2 the course evaluation.
3. Imposing other sanctions of similar severity at the discretion of the instructor and/or Vice President of Student Services.

Records of students who commit Level Two offenses will be maintained in the Office of the Vice President of Student Services.

Level Three Violations

Level Three violations are those that go beyond Level One or Two which, in the opinion of the Office of Student Services, require sanctions that go beyond the measure of a single classroom. Level Three violations include dishonesty that affects a major or essential portion of work done to meet course requirements, or involves premeditation, or is preceded by one or more violations at Levels One and Two. Level Three violations represent the most serious breaches of intellectual honesty. Examples might include:

1. Copying on examinations.
2. Plagiarizing major portions of a written assignment.
3. Acting to facilitate copying during an exam.
4. Using materials prohibited by the instructor, e.g., books, notes, calculators or the like during an examination.
5. Collaborating before an exam to develop methods of exchanging information and implementation thereof.
6. Altering examinations for the purposes of re-grading.
7. Acquiring or distributing an examination from unauthorized sources prior to the examination.
8. Presenting the work of another as one's own.
9. Using a purchased or otherwise acquired term paper or other materials.
10. Removing posted or reserved material, or preventing other students to its access.
11. Fabricating data by inventing or deliberately altering material. (This includes citing "sources" that are not, in fact, sources.)
12. Using unethical or improper means of acquiring data.
13. Infractions of academic integrity in ways similar to criminal activity (such as forging a grade form, stealing an examination from a professor or from a university office; buying an examination; or falsifying a transcript or changing other records of work accomplished) .
14. Having a substitute take an examination or taking an examination for someone else.
15. Sabotaging another student's work through actions designed to prevent the student from successfully completing an assignment.

Sanctions for Level Three violations are imposed by the Office of the Vice President of Student Affairs in accordance with the established disciplinary procedures as

Academic Regulations

set forth in *Solano Community College Board Policy 5300*. Following procedures consonant with due process, a student may be expelled, suspended, placed on social probation or given a lesser sanction if the student 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. Solano Community College defines academic dishonesty as:

- Plagiarism or knowingly or unknowingly using someone else's ideas, words, or thoughts without giving credit to the source
- Receiving or providing unauthorized assistance on assignments and/or exams
- Using unauthorized materials during an exam
- Fabrication of data or references
- Denying others access to information
- Forgery, alteration, or misuse of documents, records, or identification

Solano Community College will not tolerate Academic Dishonesty.

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	3 units	MATH 320 (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	4 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	HUDV 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	MATH 030, 031
Physics B*	4,5	6 units	PHYS 002, 004
Physics C*	4,5	8 units	CHEM 006
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 minimum 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

Non-Traditional Learning

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 from the Information Window at the Office of Admissions and Records.

FORMAL MILITARY SERVICE SCHOOLS

Elective college units may be allowed for the successful completion of college-level training in formal service schools as recommended by *The Guide to the Evaluation of Educational Experiences in the Armed Services*, published by the American Council on Education.

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) to the Office of Admissions and Records for evaluation. These units do not meet the health and physical education requirements for graduation.

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.

STUDY ABROAD PROGRAM

At Solano Community College, the opportunity to study abroad is available for all students. Students of various language skills have the opportunity to participate in study abroad programs all over the world. Students can elect a program where the language of instruction is a foreign language or alternately may choose a program where the language of instruction is English. Solano Community College also has information on a wide variety of exciting opportunities such as volunteering abroad, exchange programs, internship abroad or work abroad programs.

Solano Community College has joined with other California Community Colleges and the American Institute for Foreign Study (AIFS) to offer students the opportunity to study abroad. In addition to being eligible for any California Community College Program, students may prepare for study abroad via California State University's Study Abroad Program, University of California's Education Abroad Program, or numerous higher education institutions and private programs.

Solano Community College students may participate in semester, year long, or summer programs all over the world. Many locations are available, including places such as: Australia, England, France, Mexico, Northern Europe, South America, Spain, Italy, Holland, Austria, Czech Republic, Ireland, Russia, Poland, South Africa, China and Japan. The world can be your classroom through study abroad. To be eligible to study abroad via Solano and other Community College Programs, a student must have completed 12 units of post secondary college work at Solano or another regionally accredited institution, be at least 18 years of age, and have a

Non-Traditional Learning

cumulative GPA of 2.0 or higher, depending on the program. For programs that require language skills, students typically need 1-2 years of successful work in the language. In addition, students also have the option of beginning their junior year at a CSU or UC as a study abroad student. The deadline for these academic year programs generally is in early spring. Courses offered through study abroad programs are usually transferable to accredited colleges and universities.

The FAFSA (Free Application for Federal Student Aid) program offers funding for students wishing to study abroad. Solano Community College is also affiliated with the National Security Education Program, which offers scholarships for study abroad. Additional private scholarships may be available.

Students who would like additional information on study abroad should see a counselor early in their academic program to be well prepared. Appointments can be made in the Counseling Center, Building 400, Room 407, Fairfield Campus.

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. It is required that students complete each course within the program with a grade point of 2.0 (C) or better or a P if the course is taken on a pass-no pass basis.

Certificates of Achievement programs differ from degree programs in that students are not required to complete the general education requirements and in the total number of units required. 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 six 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.

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 accredited public institution of higher education and meeting the SCC definition of continuous enrollment shall not lose their original catalog rights.

When a break in enrollment occurs, graduation requirements are determined according to the Catalog in effect at the time of re-entry into continuous enrollment.

Leaves of absence must be requested and approved in advance of the term for which absence is anticipated. Leaves of absence must be approved by the Academic Council.

Students may choose to graduate under the Catalog in effect at the time of the petition to graduate.

Each new catalog year begins with the summer session. Students may not complete general education requirements under one catalog and major requirements under another catalog.

Transfer of Credit From Other Colleges

Only those courses from 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.

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.

Graduation Requirements

- 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.
- View your Schedule Bill for course specific P/NP deadlines

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 A

See page 48

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, HUDV 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, HUDV 053, HUMN 003, MUSC 013, PLSC 005, SOCS 022, THEA 013.



General Education - Option A

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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, B-1, C, D-1, D-3 and E, as well as the local District Health and Physical Education 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 B-2 or D-4. 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 math.
3. The Area D-2 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: English 1 (Area D-1), English 62 (Area D-2) and mathematics (Area D-3).
5. Courses used to satisfy the English (Area D-1), reading (Area D-2) and mathematics (Area D-3) 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.

Area A - Natural Sciences		C	IP	P
<p>(Minimum of 3 units)</p> <p>Physical Science ASTR 010, 030, 040 CHEM 001, 002, 003, 004, 010, 011, 051,160 ENGR 030 GEOG 001 GEOL 001, 005 METR 010 PHYS 002, 004, 006, 007, 008, 010 PHSC 012</p> <p>Biological Science ANTH 001 BIO 002, 003, 004, 005, 012, 014, 015, 016, 018, 019</p> <p>Other courses that may be used to satisfy this requirement HORT 050 NUTR 010</p>				
Area B - Social and Behavioral Studies		C	IP	P
<p>(Minimum of 3 units from Area B-1)</p> <p>1. AMST 001, 002 HIST 017, 018, 028, 029, 037 IR 001 PLSC 001, 005 SOC 002</p> <p>2. The following courses may be used to fulfill the minimum 21 unit GE requirement but do not fulfill the Area B subject requirement.</p> <p>ANTH 002, 007 COUN 050, 055, 083 CJ 001 ECON 001, 002 GEOG 002, 004, 006 HIST 010, 025, 030, 031, 032 HUDV 038, 039, 040, 050, 053, 058, 070 JOUR 011 LR 012 PLSC 002, 006, 016, 019 PSYC 001, 002, 004, 005, 010, 020, 024, 030 SOCS 022, 023, 025, 026, 027, 028, 030 SOC 001, 023</p>				

06/13/12

C = Completed

IP = In Progress

P = Planned

(see reverse)

Area C - Humanities	C	IP	P
<p>(Minimum of 3 units)</p> <p>AMST 001, 002 ART 001, 002, 003, 010, 011, 012 CINA 010, 011 ENGL 002, 012, 013, 014, 016, 018, 021, 023, 024, 025, 030, 031, 032, 033, 034, 035, 036, 037, 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, 031, 032 PHOT 035 SPAN 001S, 002S, 025 SPCH 015 THEA 006, 010, 011, 013 TV 050</p>			

Area D - Language and Rationality	C	IP	P
<p>(Minimum of 6 units)</p> <p>All three sections (D1, 2, & 3) must be satisfied including one course selected from 1 and 3 below.</p> <p>1. Writing ENGL 001 (course must be completed with a "C" or better or "P" if taken on a pass-no pass basis.)</p> <p>2. Reading This requirement may be satisfied by any one of the options listed below:</p> <p>a. Achieve a college level score of 95 or better on the Solano College reading comprehension section of the assessment test.</p> <p>b. Achieve a grade of "C" or better in a college-level reading class: ENGL 062 or a special program of study in the Reading Improvement Lab for students scoring 87-94 on the reading comprehension test.</p> <p>c. Proof of one of the following:</p> <p>1. An associate degree or higher from an accredited institution.</p> <p>2. A grade of "C" or better in a college-level reading course from another community college.</p> <p>3. College-level reading test scores from another college, or a score of 500 or better on the verbal section of the SAT, or a score of 23 or better on the English section of the ACT.</p> <p>3. 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.</p> <p>a. A minimum of three units of an Intermediate Algebra level math course. MATH 104, 112, 114, 118</p> <p>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</p> <p>4. The following courses may be used to fulfill the minimum 21 unit GE requirement but do not fulfill the Area D subject requirement.</p> <p>CIS 001, 020, 023, 025, 115 PHIL 001 ENGL 004 SPCH 001, 002, 006, 010, 060</p>			

Area E - Cross-Cultural Studies	C	IP	P
<p>(Minimum 3 units)</p> <p>ART 012 HUDV 053 SPCH 012 CINA 011 HUMN 003 THEA 013 COUN 055 MUSC 013 ENGL 012, 036 PLSC 005 HIST 037 SOCS 022</p>			

Local District Requirement - Health and Physical Education	C	IP	P
<p>Two Physical Education activity courses or two Intercollegiate Athletic sports or any combination thereof that equates to two exposures.</p> <p>HED 002 or 003 may be substituted for one of the above mentioned activity courses.</p>			

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 each term that you are in attendance at SCC 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 typically reviewed by Admissions and Records and students are notified of the outcome 3-6 months after the term ends.

Email us at admissions@solano.edu if you have questions or problems.

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 Development Office.

Students should direct additional questions regarding graduation ceremony participation to the Student Development Office.

Questions? Problems?

Email us at admissions@solano.edu

Associate Degrees for Transfer

California Community Colleges are now offering associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA/T or AS-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 AA-T or AS-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 and to find out which CSU campuses accept each degree, please go to <http://sb1440.org/>. 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.

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.

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.



CSU General Education - Option C 2012 - 2013

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 and each subject area (A-E) minimum. Partial certification is also available for students missing one or more courses. Students should request certification from the Office of Admissions and Records prior to transfer. Please see a counselor for additional information and guidance.

Items to Note

1. For admission purposes, students must complete the "Golden Four" courses (AREA A1, A2, A3, and B4) with a "C" or better.
2. To meet the Solano Community College GE requirement under option C, at least one of the following cross-cultural courses must be included: ART 012, CINA 011, COUN 055, ENGL 012, 036, HIST 037, HUMN 003, MUSC 013, PLSC 005, SPCH 012, SOCS 022 or THEA 013.

Area A - English Language Communication and Critical Thinking		C	IP	P
(Minimum of 9 units)				
A1 - Oral Communication SPCH 001 Course from other college _____ Advanced Placement Exam _____				
A-2 - Written Communication ENGL 001 Course from other college _____ Advanced Placement Exam _____				
A-3 - Critical Thinking ENGL 002, 004 PHIL 001, 005 SPCH 006 Course from other college _____ Advanced Placement Exam _____				

Area B - Scientific Inquiry and Quantitative Reasoning		C	IP	P
(Minimum of 12 units, 9 at SCC) Select one physical science and one life science (one lab required) and one mathematics course.				
B-1 - 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 GEO 001, 005 METR 010 PHYS 002(L), 004(L), 006(L), 007(L), 008(L), 010 PHSC 012(L) Course from other college _____ Advanced Placement Exam _____				
B-2 - Life Science ANTH 001 BIO 002(L), 003(L), 004(L), 005(L), 012, 014(L), 015(L), 016, 019(L) Course from other college _____ Advanced Placement Exam _____				
B-3 - Laboratory Courses (One unit unless met in area B-1 or B-2) ASTR 020(L) GEOG 002(L) BIO 012(L) GEOG 001L(L) And any course in B1 or B2 with a lab indicated by (L). Course from other college _____ Advanced Placement Exam _____				
B-4 - Mathematics MATH 002, 004, 011, 012, 020, 021, 022, 023, 030, 031, 040, 051 Course from other college _____ Advanced Placement Exam _____				

(L) Lab Course + May be used in only one area. # Meets American Institutions requirement.

Area C - Arts and Humanities			C	IP	P
(Minimum of 12 units, 9 at SCC)					
Select at least one course in each of the two categories, arts and humanities.					
C-1 - Arts					
ART 001, 002, 003, 010, 011, 012 PHOT 035					
CINA 010, 011 THEA 001, 002, 005, 006, 010, 011, 013, 048A					
MUSC 005, 007, 008, 013					
Course(s) from other college_____ Advanced Placement Exam_____					
C-2 - Humanities					
AMST +001#, +002# GRMN 001, 002, 003, 004, 011, 012, 031, 032, 033, 034					
ENGL 006, 007, 012, 013, 014, 016, HIST +002, +003, +004, +005, +010, +017#, +018#					
018, 021, 023, 024, 025, 030, 031, +028#, +029#, +030, +031, +032, +037#					
032, 033, 034, 035, 036, 037, 038 HUMN 001, 002, 003,					
040, 041, 044, 046, 047, 058 ITAL 031, 032, 033, 034					
FREN 001, 002, 003, 004, 011, 012, 031, PHIL 003, 004, 031, 032					
032, 033, 034 SPAN 001, 001S, 002, 002S, 003, 004, 011, 012, 025,					
031, 032, 033, 034, 048A					
Course(s) from other college_____ Advanced Placement Exam_____					

Area D - Social Sciences			C	IP	P
(Minimum of 12 units, 9 at SCC)					
Select courses from at least two different course disciplines.					
D-0 - Sociology & Criminology					
SOC 001, 002, 023, 040, 045, 075					
D-1 - Anthropology & Archaeology			D-4 - Gender Studies		
ANTH 002, 007			HIST +037#		
			PLSC 019		
			PSYC 010		
D-2 - Economics			D-5 - Geography		
ECON 001, 002, 010			GEOG 002, 004, 006		
D-3 - Ethnic Studies			D-6 - History		
COUN 055			HIST +002, +003, +004, +005,		
HIST +028#, +029#, +031			+010, +017#, +018#, +028#		
PLSC 005#			+029#, +030, +031, +032,		
PSYC 024			+037#		
SOC 023			D-7 - Interdisciplinary, Social & Behavioral Sciences		
SOCS 022, 023, 025, 026, 027, 053			AMST +001#, +002#		
SPCH 012			HUDV 038,039 JOUR 011		
Course(s) from other college_____ Advanced Placement Exam_____			PLSC 048G PSYC 030		
			SOCS 028, 030, 053		
			SOC 030		
			SPCH 012		
			TV 050		
			D-8 - Political Science, Government & Legal Institutions		
			CJ 001, IR 001		
			PLSC 001#, 002, 005#, 006, 016, 019		
			D-9 - Psychology		
			HUDV 038, 039, PSYC 001		
			002, 004, 005, 006, 010, 024		

Area E - Lifelong Learning and Self-Development			C	IP	P
(Minimum 3 units)					
BIO 018 HED 002, 003 PSYC 006, 020, 034					
BUS 058 HUDV 038,040,050,070 PE 005Q,* 005R,* 006G*					
COUN 007, 050, 058, 083, 098 NUTR 010 *(Limitation on Area Credit)					
Course(s) from other college_____ Advanced Placement Exam_____					

CSU Graduation Requirement			C	IP	P
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.					
<u>American Institutions (Group 1)</u>			<u>American Institutions (Group 2)</u>		
PLSC 001, 005			AMST 001, 002		
			HIST 017, 018, 028, 029, 037		

+ May be used in only one area.

Meets American Institutions requirement.

06/13/12

C = Completed

IP = In Progress

P = Planned

Area 4 - Social and Behavioral Sciences			C	IP	P
At least 3 courses from at least 2 disciplines or an interdisciplinary sequence. 9 semester/12-15 quarter units					
4A - Anthropology and Archaeology ANTH 002, 007	4F - HISTORY HIST +002, +003, +004, +005, +010, +017 +018, +028, +029, +030, +031, +032, +037	4J - Sociology & Criminology SOC 001, 002, 023, 030, 040, 45			
4B - Economics ECON 001, 002, 010	4G - Interdisciplinary, Social & Behavioral Sciences HUDV 038, 039 JOUR 011 PLSC 048G	SOCS 025, 026, 027, 028, 030 SPCH 012			
4C - Ethnic Studies HIST +028, +029, +031 PLSC 005 SOCS 022, 023, 025, 026	4H - Political Science, Government & Legal Institutions IR 001 PLSC 001, 002, 005, 006, 016, 019				
4D - Gender Studies PLSC 019 HIST +037	4I - Psychology PSYC 001*, 002, 004, 005, 006, 010, 020, 024, 030, 034 HUDV 038, HUDV 039				
4E - Geography GEOG 002, 004, 006 Course(s) from other college _____	Advanced Placement Exam _____				

Area 5 - Physical and Biological Sciences			C	IP	P
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					
Courses marked with an "L" in parentheses - (L), contain a laboratory component.					
5A - Physical Science ASTR 010, 30*, 40* CHEM 001(L), 002(L), 003(L)*, 004(L)*, 010(L)*, 0011(L)*, GEOG 001 GEOL 001, 002(L), 005 Course(s) from other college _____	METR 010 PHYS 002(L)*, 004(L)*, 006(L)*, 007(L)*, 008(L)* 010* PHSC 012(L)*	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),					
5C - Laboratory Requirement (Unless met in 5A or 5B) ASTR 020(L), GEOG 001(L), GEOL 002(L), BIO 012(L)* Course(s) from other college _____	Advanced Placement Exam _____				

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

CSU Graduation Requirement			C	IP	P
CSU requires two American Institutions courses for graduation; one must be from Group 1 and one from Group 2. Courses used to meet the American Institutions requirement may also be used to satisfy any other area.					
<u>American Institutions (Group 1)</u> PLSC 001, 005	<u>American Institutions (Group 2)</u> AMST 001, 002 HIST 017, 018, 028, 029, 037				

* Indicates that transfer credit may be limited by either UC or CSU or both. Consult a counselor for details.

+ May be used in only one area.

(L) Indicates course has a lab.

06/13/12

C = Completed

IP = In Progress

P = Planned

Transfer to Four-Year Colleges & Universities

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 is initiated 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.)

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.

Transfer to Four-Year Colleges & Universities

- 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.

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.)

Transfer to Four-Year Colleges & Universities

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.

These 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.

Workforce Development Education

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 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
- Aeronautics
- Automotive Body and Repair
- Automotive Technician
- Avionics Technician
- Banking and Finance, Bank Operation
- Biotechnology Production Technician
- Business – General (Transfer)
- Business – Insurance Property & Casualty
- Computer and Information Science
- Cosmetology
- Criminal Justice, Corrections
- Criminal Justice, Law Enforcement
- Drafting Technician
- Early Childhood Education
- Electronics Technology
- Fire Technology
- Human Services
- Industrial Management, Safety
- Interior Design

- Life Management
- Maintenance Technician
- Management
- Marketing
- Office Technology
- Ornamental Horticulture
- 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

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/Health Occupations major)
- Computer Applications Specialist
 - (see Computer & Information Science major)
- Computer Information Security
 - (see Electronics major)
- Computer Investigations
 - (see Electronics major)
- Database Specialist
 - (see Computer & Information Science major)
- Drafting Technology
 - (see Drafting major)
- Electronic Security and Surveillance Technician
 - (see Electronics major)
- Emergency Medical Technician I
 - (see Health Occupations major)
- Fitness Professional
 - (see Physical Education/Athletics major)
- General Office Assistant
 - (see Office Technology major)
- Hazmat Worker
 - (see Fire Technology major)

Workforce Development Education

Home-Based Computer Processor
(see Computer & Information Science major)

Home Technology Integrator
(see Electronics major)

Insurance Specialist
(see Business-Insurance: Property
& Casualty major)

Landscape Worker
(see Ornamental Horticulture major)

Legal Office Assistant
(see Office Technology major)

Manufacturing Technology
(see Industrial Education major)

Medical Front Office Clerk
(see Office Technology major)

Microsoft Office Master
(see Computer & Information Science major)

Microsoft Office Specialist
(see Computer & Information Science major)

Nail Technician
(see Cosmetology major)

Pre-Fire Technician
(see Fire Technology)

Retail 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:

<u>Courses</u>	<u>Listed Under</u>	<u>Courses</u>	<u>Listed Under</u>
Air Conditioning & Refrig (ACR)	Industrial Education	Learning Skills (LS)	Counseling
American Studies (AMST)	Liberal Arts	Maintenance Technician (MT)	Industrial Education
Anthropology (ANTH)	Science, General	Meteorology (METR)	Science, General
Astronomy (ASTR)	Science, General	Nursing (NURS)	Health Occupations
Athletics (ATHL)	Physical Education, Wellness & Athletics	Nutrition (NUTR)	Physical Education, Wellness & Athletics
Cinematography (CINA)	Film & Television	Physical Science (PHSC)	Science, General
Education (EDUC)	Liberal Arts	Portuguese (PORT)	Foreign Languages
Emergency Medical Technician (EMT)	Health Occupations	Sociology (SOC)	Social Sciences
English as a Second Language (ESL)	English	Spanish (SPAN)	Foreign Languages
French (FREN)	Foreign Languages	Speech (SPCH)	Communications Studies
Geography (GEOG)	Science, General	Tagalog (TAG)	Foreign Languages
Geology (GEOL)	Science, General	Television (TV)	Film & Television
German (GRMN)	Foreign Languages	Tutoring (TUTR)	Counseling
Health Education (HED)	Physical Education, Wellness & Athletics		
Human Development (HUDV)	Home Economics	Other Categories	Listed Under
Humanities (HUMN)	Liberal Arts	Computer Servicing Tech.	Electronics major
Industrial Management (IMGT)	Industrial Education	Graphic Design & Illustration major	Art major
Industrial Technology (IT)	Industrial Education	Reading courses	English major
Insurance (BUS)	Business	Sports Med./Fitness Sci major	Physical Education, Wellness & Athletics
Italian (ITAL)	Foreign Languages		
Japanese (JAPN)	Foreign Languages		
Latin (LATN)	Foreign Languages		
Learning Resources (LR)	Liberal Arts		

Program Degrees and Certificates

	Assoc Degree	Certificate		Assoc Degree	Certificate
Accounting	•	•	Interdisciplinary Studies (with Emphasis)	•	
Aeronautics			Arts and Humanities	•	
Airframe Maintenance Technician	•	•	Communication	•	
Powerplant Maintenance Technician	•	•	Science and Quantitative Reasoning	•	
Airframe & Powerplant Maintenance Technician	•	•	Social Science	•	
Avionics Technician	•	•	Wellness and Self-Development	•	
Art			International Relations	•	
Two Dimensional	•		Interior Design	•	
Three Dimensional	•		Journalism	•	
Art History	•		Life Management	•	•
Graphic Design & Illustration	•		Management	•	•
Automotive			Small Business Management	•	•
Body & Repair Technician	•	•	Retail Management	•	•
Banking & Finance, Bank Operation	•	•	Marketing	•	•
Biology	•		Mathematics	•	
Business, General (Transfer)	•	•	Mathematics for Transfers	•	
Business-Insurance: Property & Casualty	•	•	Music		
Chemistry	•		Instrumental	•	
Communication Studies	•		Theory-Composition	•	
Computer & Information Science			Vocal	•	
Computer Programming	•	•	Nursing, Registered	•	
Microcomputer Applications	•	•	Office Technology		
Web Development and Administration	•	•	Administrative Assistant	•	•
Cosmetology	•	•	Legal Specialist	•	•
Criminal Justice			Medical Office Specialist	•	•
Corrections	•	•	Medical Transcription Specialist	•	•
Law Enforcement	•	•	Photography, Professional	•	•
Computer Forensics		•	Physical Education	•	
Drafting Technician	•	•	Physics	•	
Early Childhood Education	•	•	Political Science	•	
Electronics			Psychology	•	
Electronic Technology	•	•	Real Estate	•	•
English	•		Science, General	•	
Ethnic Studies			Social Science	•	
African-American Studies	•		Sociology	•	
Asian-American Studies	•		Sociology for transfer	•	
Ethnic Studies Combination	•		Sports Medicine/Fitness Science		
Latino Studies	•		Transfer	•	
Native American Studies	•		Theatre Arts	•	
Film and Television	•		University Studies - (With Emphasis)		
Fine Arts	•		Arts and Humanities	•	
Fire Technology	•	•	Communication	•	
Hazardous Substance and Waste Handling Technician		•	Liberal Studies for Elementary Teacher Preparation	•	
Foreign Languages, General	•		Science and Quantitative Reasoning	•	
Foreign Languages, Individual:			Social Science	•	
French	•		Water & Wastewater Technology	•	•
German	•		Welding		
Spanish	•		Industrial Technician	•	•
History	•		Technician	•	•
Horticulture Science	•	•			
Horticulture Science					
Human Services	•	•			
Applied Biotechnology		•			
Industrial Biotechnology	•	•			
Industrial Education					
Industrial Management, Safety	•	•			
Maintenance Technician	•	•			

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. A coding directly below the title of some courses indicates when the course is usually offered. "F" indicates fall semester and "S" indicates spring semester. If no coding appears for a course, however, it does not mean the course is offered every semester, day and night. 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. 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.

Announcement of Courses & Course Numbers

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 AA/AS Degree; transfer to the University of California system and the California State Universities.
- 050-099** Qualify for the AA/AS Degree and transfer to the California State Universities.
- 100-199** Qualify for the AA/AS 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 AA/AS Degree and do not transfer to four-year institutions.
- 300-399** Credit courses which DO NOT apply to the AA/AS 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.

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 an Accounting A.A. 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 an 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 050 Microcomputer Applications	3
<i>or</i>	
CIS 001 Introduction to Computer Science	3
CIS 066 Microsoft Word	3
<i>or</i>	
CIS 063 WordPerfect	3
CIS 073 Microsoft Excel	3
Total Units	29

Recommended Electives:

OCED 090 Occupational Work Experience
OCED 091 General Work Experience

Account Clerk Job-Direct Certificate

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

Required Courses	Units
BUS 100 Work Readiness	1.5
CIS 073 Microsoft Excel	3
ACCT 180 Introduction to Accounting	3
OT 162 Ten-Key	1
Total Units	8.5

Accounting

ACCT 001 Principles Of Accounting—Financial <i>Course Advisories: SCC minimum English and math standards; Working knowledge of Excel helpful.</i> A study and analysis of the accounting cycle, accruals and deferrals, inventory, receivables, plant assets, accounting systems, error correction, and financial reporting. <i>Four hours lecture.</i>	4.0 Units	ACCT 176 Intermediate Accounting <i>Prerequisite: ACCT 002 with a grade of “C” or “CR” or better. Course Advisory: Working knowledge of Excel helpful.</i> 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. <i>Four hours lecture.</i>	3.0 Units
ACCT 002 Principles Of Accounting—Managerial <i>Prerequisite: ACCT 001 with a grade of ‘C’ or ‘CR’ or better. Course Advisory: Working knowledge of Excel helpful.</i> A study and analysis of the managerial accounting concepts and theory including the following: 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; analysis of financial reporting; and tax implications of managerial decisions. In addition, a study of corporate reporting, bonds and long-term liabilities, long-term investments, and reporting and analyzing cash flows. <i>Four hours lecture.</i>	4.0 Units	ACCT 177 Principles of Cost Accounting <i>Prerequisite: ACCT 002 with a grade of ‘C’ or ‘CR’ or better.</i> A comprehensive study and analysis of manufacturing costs as they apply to planning, controlling, and determining unit costs, inventory valuation, and income. <i>Three hours lecture.</i>	3.0 Units
ACCT 050 Computer Accounting <i>Prerequisite: Acct 001. Course Advisories: SCC minimum English and Math Standards.</i> 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. <i>Three hours lecture.</i>	3.0 Units	ACCT 180 Introduction To Accounting <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three hours lecture.</i>	3.0 Units
		ACCT 183 Principles Of Income Tax <i>Course Advisories: SCC minimum English and math standards.</i> A comprehensive study and analysis of the principles of federal income tax applied to individual, partnership, informational, and corporate tax returns. <i>Three hours lecture.</i>	3.0 Units

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 1900 hours (four full semesters and one four week summer session) of instruction to complete the combination airframe and 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 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 110 Instrument Power Distribution & Flight Control Systems
AERO 111 Aircraft Communication Systems
AERO 112 Aircraft Navigation Systems
AERO 113 Aircraft Radar & Pulse Systems
AERO 150 FAA Special Projects-Airframe Enhancement
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

To obtain the combination Airframe & Powerplant Maintenance Technician certificate or degree, 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

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 1900 hours (four full semesters and one four week summer session) of instruction to complete the combination airframe and 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 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

Recommended Electives :

AERO 110 Instrument Power Distribution & Flight Control Systems
AERO 111 Aircraft Communication Systems
AERO 112 Aircraft Navigation Systems
AERO 113 Aircraft Radar & Pulse Systems
AERO 150 FAA Special Projects-Airframe Enhancement
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

To obtain the combination Airframe & Powerplant Maintenance Technician certificate or degree, 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

Aeronautics

Avionics Technician

Program Description

This program prepares students to work in the Avionics field as a technician skilled in the installation, troubleshooting, removal and repair of all cockpit instruments which includes: airborne communications, navigation, and identification systems; automatic flight control systems; head-up displays; airborne weapons and reconnaissance systems; air traffic control systems, including communications, displays and surveillance systems; ground radar systems, including those for early warning and missile/space tracking; electro-optic, infrared and laser systems; space satellite communication systems; telemetry systems and space vehicle avionics. They will be familiar with the government regulations associated with such equipment and be prepared, if the opportunity presents itself, to open their own business in the field.

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 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 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 110 Instrument Power Distribution & Flight Control Systems	7
AERO 111 Aircraft Communication Systems	7
AERO 112 Aircraft Navigation Systems	7
AERO 113 Aircraft Radar & Pulse Systems	7
Total Units	28

Aeronautics courses numbered 200 and above are intended as refresher courses and may be used to prepare for FAA licensing. They are not applicable toward the certificate or A.S. Degree in Airframe Maintenance or Powerplant Maintenance and are not covered under Part 147 FAR's or the school FAA certification.

Students with prior experience or schooling must have Solano instructor verification for substitution or waiving. "Proof of Proficiency Exam" may be required prior to enrollment in any class other than 055.

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.*

Aeronautics

- AERO 060** **5.0 Units**
Basic Aeronautical Science
Course Advisory: SCC minimum English and Math Standards. Presents the fundamentals necessary for the advanced study in Aeronautics. Along with an exposure to the history of aviation and powerplant operation, the student will learn ground operation and servicing, mechanic privileges and limitations, maintenance forms, records, and publications, technical mathematics and physics, and how to calculate the weight and balance of an aircraft. Safety is stressed throughout the course. Not available for credit to students who have completed AERO 055 with a "C" or better. *Two and one-half lecture and seven and one-half lab.*
- AERO 062** **5.0 Units**
Aircraft Production Processes
Course Advisory: SCC minimum English and Math Standards. Continues the study of the fundamentals of Aeronautics. The student will learn about the materials used in aircraft construction and maintenance, proper cleaning and corrosion control, and understand aircraft drawings. Safety is stressed throughout the course. Not available for credit to students who have completed AERO 055 with a "C" or better. *Two and one-half lecture hours and seven and one-half lab hours.*
- AERO 064** **5.0 Units**
Aircraft Hydraulics
Course Advisory: SCC minimum English and Math Standards. Presents the study of the fundamentals of Aeronautics. The student will gain an understanding of fluid power systems and the components used to generate and transfer fluid power in aircraft. Safety is stressed throughout the course. Not available for credit to students who have completed AERO 103 with a "C" or better. *Two and one-half lecture hours and seven and one-half lab hours.*
- AERO 066** **5.0 Units**
Basic Aircraft Electrical Systems
Course Advisory: SCC minimum English and Math Standards. Presents the study of the fundamentals of Aeronautics. The student will gain an understanding of electricity, electronics, and the electrical systems used in aircraft. Though primarily oriented toward direct current systems, alternating current and modern electronic circuitry are also included. Safety is stressed throughout the course. Not available for credit to students who have completed AERO 103 with a "C" or better. *Two and one-half lecture hours and seven and one-half lab hours.*
- AERO 102** **10.0 Units**
Airframe Maintenance I
Course Advisory: SCC minimum English standard; AERO 055. 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; AERO 055. 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; AERO 055. 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; AERO 055. Presents a study of the theory, operation, maintenance and repair of the turbine engine and accessories. *Five hours lecture, fifteen hours lab.*
- AERO 110** **7.0 Units**
Instrument Power Distribution & Flight Control System
Prerequisites: ECTN 053 and ECTN 126. A study of basic principles of the electronic systems used on modern aircraft including a review of the principles of flight, aircraft power distribution, basic flight control systems, an introduction to avionics equipment maintenance and repair and Federal Avionics Administration rules, documentation, aircraft drawings and various manufacturers support manuals. Mandatory field and laboratory experience will include typical installation and repair facilities, federal laws governing installation, repair and calibration of equipment used in conjunction with avionics maintenance. *Five hours lecture, six hours lab.*
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Aeronautics

AERO 111 7.0 Units Aircraft Communication Systems

Prerequisites: ECTRN 053 and ECTRN 126. A study of the basic principles of communication systems used on modern aircraft including information on maintenance levels, FAA and FCC requirements, customer relations, basic RF systems, RF transmitters, antenna systems, related test equipment, documentation, aircraft drawing and various manufacturer's support manuals will be used. Mandatory field and laboratory experience will include typical installation and repair facilities, federal laws governing installation, repair and calibration of equipment used in conjunction with communication systems. *Five hours lecture, six hours lab.*

AERO 112 7.0 Units Aircraft Navigation Systems

Prerequisites: ECTRN 053 and ECTRN 126. A study of basic principles of the navigation systems used on modern aircraft including the "glass cockpit" and the general theory of navigation systems will be addressed, along with specific investigation into ADF VOR/localizer, glide slope, marker beacon systems, aircraft drawings and various manufacturer's support manuals will be used. Mandatory field and laboratory experience will include typical installations and repairs of each system and the facilities necessary to accomplish the task. Also the student will study the Federal laws governing installation, repair and calibration of equipment used in conjunction with navigation systems. *Five hours lecture, six hours lab.*

AERO 113 7.0 Units Aircraft Radar & Pulse Systems

Prerequisites: ECTRN 053 and ECTRN 126. A study of the basic principles of the radar and pulse systems used on modern aircraft including the theory of radar and pulse systems, analog MTI systems, analog signal processing FM-CW radar wave propagation targets, and DME and transponder principles. An introduction to radar procedures, aircraft drawings and various manufacturer's support manuals will be used. Mandatory field and laboratory experience will include typical installation and repair facilities, Federal laws governing installation, repair and calibration of equipment used in conjunction with radar and pulse systems. *Five hours lecture, six hours lab.*

AERO 118 .5 to 1.5 Units FAA Airframe Test Review and Qualification

Course Advisories: SCC minimum English and math standards; AERO 055. 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. May be repeated to a maximum of 1.5 units, including initial enrollment. *Six to eighteen hours lab* (4 week course).

AERO 119 .5 to 1.5 Units FAA Powerplant Test Review & Qualification

Course Advisories: SCC minimum English and math standards; AERO 055. 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. May be repeated to a maximum of 1.5 units, including initial enrollment. *Six to eighteen hours lab* (4 week course).

AERO 150 .5 to 1.5 Units FAA Special Projects and Course Enhancement

Course Advisories: SCC minimum English and Math Standard; 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. May be Repeatable to a maximum of 1.5 units including initial enrollment. *One and one-half to four and one-half hours lab.*

AERO 151 .5 to 1.5 Units FAA Special Projects - Powerplant 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. Also allows mechanics to take recurrent training. This is an open entry/exit course. Repeatability: Repeatable to a maximum of 3 units including initial enrollment. *One and one-half to four and one-half Lab.*

AERO 175 2.0 Units Working with Composite Materials

Course Advisory: SCC minimum English and Math Standards. Introduces the student to the manufacturing and maintenance of composite materials in aeronautical and aerodynamic structures. 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. *One lecture hour and three activities hours.*

Aeronautics

AERO 176

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 activities hours.*

1.0 Unit

AERO Special Topics

These courses, numbered 098, 148, or 248, 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.

Art

(For Air Conditioning & Refrigeration-See "Industrial Education") (For American Studies- See "Liberal Arts") (For Anthropology-See "Science, General")

Art - Two-Dimensional

Program Description

Students may select from two art programs—Two-Dimensional or Three-Dimensional. 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 or 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 an Associate Degree will be able to:

1. Students will analyze, apply and integrate diverse visual experiences.
2. Students will develop and articulate with proficiency an understanding of visual and multi-cultural literacy.
3. Students will 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

All of the following:

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

All of the following:

ART 004 Life Drawing	2 - 3.5
ART 014 Introduction to Drawing	2 - 3.5

Painting Component Units

One of the following:

ART 016 Beginning Painting	2 - 3.5
ART 017 Acrylic and Oil Painting	2 - 3.5
ART 021 Watercolor	2 - 3.5

2D Emphasis Component Units

One of the following:

ART 005 Life Drawing	2 - 3.5
ART 015 Intermediate Drawing	2 - 3.5
ART 018 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

Three Dimensional Component

One of the following: 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 History Component Units

All of the following:

ART 001 Art History <i>OR</i> ART 002 Art History	3
ART 011 Survey of Modern Art	3
Total Units	26.5 – 34

Recommended Electives

ART 003 World Art
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 Acrylic and Oil Painting
ART 019 Figure Painting
ART 020 Landscape Drawing and Painting— Reflections of Nature
ART 021 Watercolor
ART 022 Watercolor
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 035 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 043 Printmaking: Relief Printing, Including Woodcut
ART 044 Kiln Design and Operation
ART 045 Art Studio Concepts ART 058 Clothed Figure
ART 060 Exhibition Design
ART 061 Collage & Assemblage
ART 100 Color and Mixed Media Drawing
ART 145 Portrait Drawing and Painting
PHOT 030 Beginning Photography

Art - Three-Dimensional

Program Description

Students may select from two art programs—Two-dimensional or Three-Dimensional. These programs are designed to develop visual skills in a variety of art media.

Associate in Arts

The Associate in Arts Degree can be obtained upon completion of 60 units, including the courses in the major for Art—Two-Dimensional or 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 an Associate Degree will be able to:

1. Students will analyze, apply and integrate diverse visual experiences.
2. Students will develop and articulate with proficiency an understanding of visual and multi-cultural literacy.
3. Students will 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

All of the following:

- 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

Ceramics Component Units

One of the following:

- 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

Emphasis Component. Units

One of the following:

- 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 035 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 044 Kiln Design and Operation 2 - 3.5

Drawing Component Units

One of the following:

- ART 004 Life Drawing (3.5) 2 - 3.5
- ART 015 Intermediate Drawing (2 or 3.5). 2 - 3.5

Art History Component Units

All of the following:

- ART 001 Art History **OR** Art 002 Art History 3
- ART 011 Survey of Modern Art 3

Professionalism Component. Units

One of the following:

- ART 047A Professional Practices for Artists 3
 - ART 047B Art on Site 3
 - ART 046A Portfolio Development – Artistic Inquiry . . . 3.5
 - ART 076B Portfolio Development: Documentation . . . 3.5
- Total Units. 29.5 – 37.5**

Recommended Electives

- ART 003 World Art
- 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 014 Intro to Drawing
- ART 015 Intermediate Drawing
- 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
- PHOT 030 Beginning Photography
- SPCH 001 Intro to Public Speaking

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.

Associate in Arts Degree

The Associate in Arts Degree can be obtained by completing a total of 60 units, including the 28-32.5 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 an Associate Degree will be able to:

1. Students will analyze, apply and integrate diverse visual experiences.
2. Students will develop and articulate with proficiency an understanding of visual and multi-cultural literacy.
3. Students will 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 003 World Art.	3
<i>or</i>	
ART 012 Inside/Outside: The Cultures and Identities of Visual Artists in a Diverse America	3
ART 006 Design Principles in 2-Dimensions.	3.5
<i>or</i>	
ART 007 Design-Color	3.5
<i>or</i>	
ART 008 Design Principles in 3-Dimensions.	3.5
ART 011 Survey of Modern Art	3
ART 014 Introduction to Drawing.	2 - 3.5
<i>or</i>	
ART 023 Introduction to Ceramics: Hand Building.	2 - 3.5
<i>or</i>	
ART 031 Sculpture	2 - 3.5
ART 060 Exhibition Design	3.5
PHOT 035 Art of Photography.	3
<i>or</i>	
CINA 010 The Art of Cinema	3
Electives - Two Courses From Recommended List	4 - 7
Total Units	28 - 32.5

Recommended Electives -

Two courses from Recommended List

ART 003 * World Art
ART 004 Life Drawing
ART 005 Life Drawing
ART 006 Design Principles in 2-Dimensions
ART 007 Design
ART 008 Design Principles in 3-Dimensions
ART 010 Art Appreciation
ART 012 * Inside/Outside: The Cultures and Identities of Visual Artists in a Diverse America
ART 014 Introduction to Drawing
ART 015 Intermediate Drawing
ART 016 Beginning Painting
ART 017 Acrylic and Oil Painting
ART 018 Acrylic and Oil Painting
ART 019 Figure Painting
ART 020 Landscape Drawing and Painting— Reflections of Nature
ART 021 Watercolor
ART 022 Watercolor
ART 023 Introduction to Ceramics: Hand Building
ART 024 Intermediate Ceramics: Hand Building
ART 025 Ceramic Design And Decoration: Hand Building Methods
ART 026 Introduction to Ceramics: Wheel Throwing Techniques
ART 027 Intermediate Ceramics: Wheel Throwing Techniques
ART 028 Ceramic Design: Wheel Throwing Techniques
ART 029 Raku Pottery
ART 031 Sculpture
ART 032 Sculpture: Human Figure
ART 033 Intermediate Sculpture
ART 034 Ceramic Sculpture
ART 035 Wood-Fired Ceramics
ART 037 Clay and Glazes for the Ceramic Artist
ART 038 Introduction to Printmaking
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 044 Kiln Design and Operation

Art

ART 045 Art Studio Concepts
ART 049 Honors
ART 052 Lettering and Layout
ART 054 Illustration I
ART 055 Illustration II
ART 056 Graphic Design I
ART 057 Graphic Design II
ART 058 Clothed Figure
ART 061 Collage & Assemblage
ART 100 Color and Mixed Media Drawing
ART 145 Portrait Drawing and Painting
CINA 010 * The Art of Cinema
CINA 015 Film Production
FREN 001 First Semester French
FREN 002 Second Semester French
FREN 003 Third Semester French
FREN 004 Fourth Semester French
FREN 031 First Semester French, Part 1
FREN 032 First Semester French, Part 2
FREN 033 Second semester French, Part 1
FREN 034 Second Semester French, Part 2

GRMN 001 First Semester German
GRMN 002 Second Semester German
GRMN 003 Third Semester German
GRMN 004 Fourth Semester German
GRMN 031 First Semester German, Part 1
GRMN 032 First Semester German, Part 2
GRMN 033 Second Semester German, Part 1
GRMN 034 Second Semester German, Part 2
HIST 002 World History to 1750
HIST 003 Modern World History
HIST 004 History of Western Civilization to 1500
HIST 005 History of Western Civilization Since 1500
HUMN 002 Humans as Creators: The Media of Creativity
LATN 001 Latin Fundamentals
LATN 002 Latin Fundamentals
LATN 003 Latin Fundamentals
PHIL 031 Introduction to World Religions of the East
PHIL 032 Introduction to World Religions of the West
PHOT 030 Beginning Photography
PHOT 035 Art of Photography

***If not already taken as part of the major**

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 an Associate Degree will be able to:

1. Students will analyze, apply and integrate diverse visual experiences.
2. Students will develop and articulate with proficiency an understanding of visual and multi-cultural literacy.
3. Students will 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 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 003 World Art

ART 041 Etching and Engraving: Color

BUS 181 Business Mathematics

CINA 010 The Art of Cinema

CINA 015 Film Production

DRFT 050 Basic Drafting

DRFT 070 Technical Illustration and Design

ENGL 051 Technical Writing

JOUR 060 Publications Laboratory

MKT 170 Advertising

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

ART 001 Art History <i>Course Advisory: Eligibility for ENGL 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units	ART 006 Design Principles In 2-Dimensions <i>Course Advisory: SCC minimum English standard.</i> 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. <i>Two hours lecture, four and one-half hours lab.</i>	3.5 Units
ART 002 Art History <i>Course Advisory: Eligibility for ENGL 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units	ART 007 Design-Color <i>Course Advisory: SCC minimum English standard.</i> A study of the principles of additive and subtractive 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. <i>Two hours lecture, four and one-half hours lab.</i>	3.5 Units
ART 003 World Art <i>Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard.</i> A cross-cultural exploration of recurrent themes in the art and architecture of the world, emphasizing Non-Western art with selected Western art for comparative study. Field trip may be required. <i>Three hours lecture.</i>	3.0 Units	ART 008 Design Principles In 3-Dimensions <i>Course Advisory: SCC minimum English standard.</i> 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. <i>Two hours lecture, four and one-half hours lab.</i>	3.5 Units
ART 004 Life Drawing <i>Course Advisory: SCC minimum English standard.</i> 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. <i>One to two hours lecture, three to four and one-half hours lab.</i>	2.0 or 3.5 Units	ART 010 Art Appreciation <i>Course Advisory: Eligibility for ENGL 001.</i> A study of the visual elements, materials and techniques used in the creation of art forms, including analysis of art from disparate cultures and periods of history. Includes audio-visual presentations and field trips that focus on the interrelationship of subject, composition, and concept — providing opportunities for deeper appreciation of art's meaning and value. Field trip may be required. <i>Three hours lecture.</i>	3.0 Units
ART 005 Life Drawing <i>Prerequisite: ART 004.</i> 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. Repeatable 1 time. <i>One to two hours lecture, three to four and one-half hours lab.</i>	2.0 or 3.5 Units	ART 011 Survey Of Modern Art <i>Course Advisory: Eligibility for ENGL 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units

Art

- ART 012** 3.0 Units
Inside/Outside: The Cultures And Identities Of Visual Artists
Course Advisory: ENGL 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 will be developed. Field trip may be required. Repeatable 1 time. *One to two hours lecture, three to four and one-half hours lab.*
- ART 015** 2.0 or 3.5 Units
Intermediate Drawing
Course Advisories: 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. *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. Repeatable 1 time. *One to two hours lecture, three to four and one-half hours lab.*
- ART 017** 2.0 or 3.5 Units
Acrylic and Oil Painting
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 018** 2.0 or 3.5 Units
Acrylic and Oil Painting
Prerequisite: ART 017. 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. Repeatable 1 time. *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. Repeatable 1 time. *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 Advisories: 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. Repeatable 3 times. *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. 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. Repeatable 1 time. *One to two hours lecture, three to four and one-half hours lab.*

Art

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, craftsmanship 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. Repeatable 1 time. *One to two hours lecture, three to four and one-half hours lab.*

ART 024 **2.0 or 3.5 Units**
Intermediate Ceramics: Hand Building

Prerequisite: ART 023. Course Advisory: SCC minimum English standard. Continuation of ART 023 with emphasis on expanding skills, experimentation, design, craftsmanship, 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. Course Advisory: SCC minimum English standard. Emphasizes ceramic design problem-solving. Emphasis on creativity, design, honing skills, craftsmanship 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, craftsmanship, and creativity. Surface techniques include texture, stencil, slip, relief, stain, and glaze. Non-traditional construction and surface techniques will also be covered. Repeatable 1 time. *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. Course Advisory: SCC minimum English standard. Continuation of ART 026 with emphasis on expanding skills, experimentation, design, craftsmanship, 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. Course Advisory: SCC minimum English standard. Emphasizes ceramic design problem-solving. Emphasis on creativity, design, honing skills, craftsmanship 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 23 or ART 26 (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. Repeatable 2 times. *One to two hours lecture, three to four and one-half hours lab.*

ART 030 **2.0 or 3.5 Units**
Architectural Ceramics, Murals and Tiles

Course Advisory: SCC minimum English standard. ART 23 or ART 26 (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. Repeatable 3 times. *One to two hours lecture, three to four and one-half hours lab.*

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. 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
Prerequisites: ART 031 or ART 032 or ART 034. 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. Repeatable 3 times. *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. Repeatable 2 times. *One to two hours lecture, three to four and one-half hours lab.*
- ART 035** 2.0 or 3.5 Units
Wood-Fired Ceramics
Course Advisories: SCC minimum English and math standards; ART 023 or ART 026 (one college level ceramics course). 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. Course will require participation in wood firing with some time spent outside regularly scheduled class hours. Repeatable 3 times. *One to two hours lecture, three to four and one-half hours lab.*
- ART 036** 2.0 or 3.5 Units
Ceramic Surfaces
Course Advisory: SCC minimum English and Math Standards. ART 023 or ART 026 (one college level ceramics course). 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. Repeatable 3 times. *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 or equivalent. Course Advisories: 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. Repeatable 2 times. *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

ART 041 2.0 or 3.5 Units

Etching and Engraving: Color

Course Advisories: 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 Advisories: 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. Repeatable 3 times. *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 Advisories: 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. Repeatable 3 times. *One to two hours lecture, three to four and one-half hours lab.*

ART 044 2.0 or 3.5 Units

Kiln Design and Operation

Course Advisory: SCC minimum English and Math Standards. ART 023 or ART 026 (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 trip may be required. Repeatable 3 times. *One to two hours lecture, three to four and one-half hours lab.*

ART 045 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 trip may be required. Repeatable 3 times. *One to two hours lecture, three to four and one-half hours lab.*

ART 046A 3.5 Units

Portfolio Development - Artistic Inquiry

Course Advisory: SCC minimum English standard. At least 3 courses in designated studio art focus of the semester or instructor consent. 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. Repeatable 3 times. *Two hours lecture, four and one-half hours lab.*

ART 047A 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. Repeatable 2 times. *Three hours lecture.*

Art

- ART 047B** **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. Repeatable 3 times. *Three hours lecture.*
- ART 049** **1.0 to 3.0 Units**
Art Honors
Prerequisites: 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 Division 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. Repeatable 3 times. *Three to nine hours weekly 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 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. Repeatable 1 time. *Two hours lecture, four and one-half hours lab.*
- 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. Course Advisories: 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. Repeatable 2 times. *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. Repeatable 1 time. *One to two hours lecture, three to four and one-half hours lab.*
- ART 060** **3.5 Units**
Exhibition Design
Course Advisory: Eligibility for ENGL 1. Provides fundamentals of designing exhibitions in galleries, museum, and alternative spaces. Students will gain hands-on experience managing all aspects of the Solano Art Gallery. 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. Repeatable 2 times. *Two hours lecture, four and one-half hours lab.*
- 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. Repeatable 1 time. *One to two hours lecture, three to four and one-half hours lab.*

Art

ART 064 Monotype/Monoprint <i>Course Advisories: SCC minimum English and Math standards.</i> 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. Repeatable 2 times. <i>Two hours lecture, four and one-half hours lab.</i>	3.5 Units	ART 100 Color and Mixed Media Drawing <i>Course Advisory: SCC minimum English standard.</i> 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. Repeatable 1 time. <i>One to two hours lecture, three to four and one-half hours lab.</i>	2.0 or 3.5 Units
ART 065 Book Making <i>Course Advisories: SCC minimum English and Math standards.</i> 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. Repeatable 2 times. <i>Two hours lecture, four and one-half hours lab.</i>	3.5 Units	ART 145 Portrait Drawing and Painting <i>Course Advisory: ART 014.</i> 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. Repeatable 1 time. <i>One to two hours lecture, three to four and one-half hours lab.</i>	2.0 or 3.5 Units
ART 076B Book Making <i>Course Advisory: SCC minimum English standard. At least 3 courses in designated studio art focus of the semester.</i> 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. Repeatable 3 times. <i>Two hours lecture, four and one-half hours lab.</i>	3.5 Units	ART 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. Announcements of Special Topics courses appear in the Schedule of Classes.	

Automotive

(For Astronomy-See "Science, General") (For Athletics-See "Physical Education") (For Avionics Technician-See "Aeronautics")

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 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

Recommended Electives

BUS 005 Introduction to Business
DRFT 079 Blueprint Reading
IT 110 Modern Welding
IT 160 Electrical Fundamentals
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

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 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
ECTN 101 Introduction to Electricity and Electronics
IT 110 Modern Welding
IT 140 Industrial Materials
IT 150 Industrial Processes
IT 160 Electrical Fundamentals
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

Automotive

AUTB 100 10.0 Units

Fundamentals 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

Prerequisites: 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

Prerequisites: AUTB 103. Advanced projects undertaken by students in their field of specialization, under supervision of the instructor. Repeatable 1 time. *Two hours lecture, three hours lab.*

AUTB 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. Announcements of Special Topics courses appear in the Schedule of Classes.

Automotive Technician

ATEC 070 3.0 Units

Automotive Fundamentals

Course Advisories: SCC minimum English and math standards. The study of automotive fundamentals including hazardous waste handling, automotive safety, automotive careers, automotive information systems, tools and equipment, fasteners, automotive measurements and measuring devices, bearings and sealants, engine systems and operation, drivelines, suspension and steering, brakes, and auxiliary systems. *Two hours lecture, three hours lab.*

ATEC 130 10.0 Units

Automotive Systems

Course Advisory: SCC minimum English standard. A study of the theory and practice of automotive repair, maintenance and diagnosis including safety, hand and power tools, test equipment and service, and design principles of all automotive systems. A broad overview providing the knowledge and skills necessary to meet the specific requirements of ATEC 131, 132, and 133. Testing and manipulative skills based on industry standards. *Five hours lecture, fifteen hours lab.*

ATEC 131 10.0 Units

Automotive Electrical Systems

Prerequisite: ATEC 130. Course Advisory: SCC minimum English standard. Presents the theory and repair of automotive electrical systems. Includes the study of electricity principles, conventional and electronic ignition systems, charging systems, starting systems and electrical accessories. Provides the student with knowledge and skills in systems diagnosis, repair and testing necessary for entry into the trade. Testing and manipulative skills based on industry standards. *Five hours lecture, fifteen hours lab.*

ATEC 132 10.0 Units

Automotive Brakes and Suspension Systems

Prerequisite: ATEC 131. Course Advisory: SCC minimum English standard. Study of automotive brakes, suspension systems, and wheel alignment theory and service procedures. Includes skills development in the use of wheel alignment machines and brake reconditioning equipment. Provides the student with knowledge and skills in diagnosis repair and testing necessary for entry into the trade. Testing and manipulative skills based on industry standards. *Five hours lecture, fifteen hours lab.*

ATEC 133 10.0 Units

Internal Combustion Engines and Power Transmission

Prerequisite: ATEC 132. Course Advisory: SCC minimum English standard. A study of internal combustion engines, transmissions, differentials, and support systems. Provides the student with the knowledge and skills in engine and power transmission theory and overhaul procedures necessary for entry into the trade. Testing and manipulative skills based on industry standards. *Five hours lecture, fifteen hours lab.*

Banking and Finance

Bank Operations

Program Description

"Banking is more people than figures. It's helping people with their problems. People tell us everything because we are in a position of trust." (Jean Adamson, U. S. Assistant Treasurer) The banking and finance program is offered by the College in cooperation with the American Institute of Banking.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion of the 21-unit major. 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 Certificate of Achievement/Associate Degree will be able to:

1. Identify accounting concepts that enable them to interpret financial data and use it to make informed decisions about the operating performance and financial position of a company.
2. Describe personal financial investment concepts that enable them to provide customers with advice on investments, insurance, and estate planning.
3. Use communication skills that will enable them to assume supervisory positions.
4. Demonstrate an understanding of the monetary and banking issues that are pervasive in all aspects of financial services.

Required Courses	Units
BIF 150 Principles of Bank Operations	3
BUS 018 Legal Environment of Business	3
BUS 181 Business Mathematics	3
CIS 050 Microcomputer Applications	3
MGMT 191 Human Relations	3
SPCH 001 Introduction to Public Speaking	3
or	
SPCH 060 Business and Professional Communication	3
Elective(s) selected from the recommended electives	3
Total Units	21

Recommended Electives

CIS 055 MS Windows Operating Systems
CIS 073 Microsoft Excel
CIS 060 Introduction to the Internet
OCED 090 Occupational Work Experience
OCED 091 General Work Experience
OT 054 Beginning Keyboarding
OT 055 Intermediate Keyboarding/Word Processing
OT 100 Skill Building on the Computer Keyboard
OT 159 Filing and Records Management
OT 162 Ten-Key

BIF 150 3.0 Units Principals of Bank Operations

Course Advisory: SCC minimum English standard. A comprehensive study and analysis of the economic functions of banks and the services they render to society. *Three hours lecture.*

Biology

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 44-46 unit major, the general education requirements, and electives for a total of 64-66 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 an Associate Degree will be able to:

1. Students will be able to design and/or interpret and 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 003 Evolution, Ecology & Biodiversity	5	MATH 020 Analytic Geometry and Calculus I	4
BIO 002 Principles of Cell and Molecular Biology	5	<i>and</i>	
CHEM 001 General Chemistry	5	MATH 021 Analytic Geometry and Calculus II	4
<i>and</i>		PHYS 002 General Physics (Non-calculus)	4
CHEM 002 General Chemistry	5	<i>and</i>	
CHEM 003 Organic Chemistry I	5	PHYS 004 General Physics (Non-calculus)	4
<i>and</i>		<i>or</i>	
CHEM 004 Organic Chemistry II	5	PHYS 006 Physics for Science and Engineering	4
MATH 030 Analytic Geometry and Calculus	3	<i>and</i>	
<i>and</i>		PHYS 007 Physics for Science and Engineering	4
MATH 031 Analytic Geometry and Calculus	3	Total Units	44 – 46
<i>or</i>			

BIO 002 5.0 Units

Principles of Cell and Molecular Biology

Prerequisite: CHEM 001 Course Advisory: Eligibility for ENGL 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 ENGL 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. Field trips may be required. Some field trips may involve a fee. *Three hours lecture, six hours lab.* (Formerly BIO 001)

BIO 004 5.0 Units

Human Anatomy

Course Advisory: SCC minimum Math standard, Eligibility for ENGL 001, 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. (BIO 004 formerly was called BIO 006.) *Three hours lecture, six hours lab.*

BIO 005 5.0 Units

Introductory Physiology

Prerequisite(s): A grade of "C" or better in BIO 004 and CHEM 001 or CHEM 010 or CHEM 051 Course Advisory: SCC minimum Math standard and Eligibility for ENGL 001. This course describes physiological and homeostatic mechanisms of the body systems in health and dysfunctional states. 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.*

Biology

BIO 012 Environmental Science <i>Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard.</i> 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. <i>Three hours lecture.</i>	3.0 Units	BIO 018 Biology Of Sex <i>Course Advisory: SCC minimum Math standard, Eligibility for ENGL 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units
BIO 012L Environmental Science Laboratory <i>Prerequisite: BIO 012 (may be taken concurrently) Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard.</i> 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. <i>Three hours lab.</i>	1.5 Units	BIO 019 Marine Biology <i>Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard.</i> 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 Biological Science 001 or 002. <i>Three hours lecture, three hours lab.</i>	4.0 Units
BIO 014 Principles of Microbiology <i>Prerequisite: A grade of "C" or better in Chem 51, Chem 10, or Chem 1 and a grade of "C" or better in Math 104 or Math 114 or two years of high school algebra. Course Advisories: SCC minimum English and Math standards.</i> 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. <i>Three hours lecture, three hours lab.</i>	4.0 Units	BIO 047 Independent Study <i>Prerequisite: A grade of "C" or better in 12 units of credit, including 4 units from within the discipline. Course Advisories: Eligibility for ENGL 001; statistics may be useful for data analysis.</i> Designed for students who intend to major in biological sciences or pre-professional programs. May be repeated to a maximum of 3 units, including initial enrollment. <i>One and one-half to nine hours weekly by arrangement.</i>	.5 Unit
BIO 015 Introduction to Biology <i>Prerequisite: None. Course Advisories: Eligibility for ENGL 001; SCC minimum math standard.</i> 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. <i>Three hours lecture, three hours lab weekly.</i>	4.0 Units	BIO 049 Biology Honors <i>Prerequisites: 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 Math-Science Division. Course Advisory: Eligibility for ENGL 001. Requires students to complete an independent student project under the supervision of a member of the faculty.</i> 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. <i>Three to nine hours weekly by arrangement.</i>	1.0 to 3.0 Unit
BIO 016 Introduction to Human Biology <i>Prerequisite: None. NOTE: Not open for credit to students who have completed BIO 001, 002, 005, 010 or 015. Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three hours lecture.</i>	3.0 Units		

Biology

BIO 099

.5 to 2.0 Units

Biology Honors: Special Dissection

Prerequisites: 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 Division 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. May be repeated to a maximum of 6 units, including initial enrollment. *one and one-half to six hours weekly by arrangement.*

BIO 160

2.0 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. This course provides a review of select anatomy, physiology, chemistry, nutrition, microbiology, and 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. (Same as MATH 160) Pass / No Pass Class. *Eight hours lecture.* (4 week course)

BIO 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. Announcements of Special Topics courses appear in the Schedule of Classes.

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 Certificate of Achievement/Associate Degree will be able to:

1. A successful student should 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. In preparation to working at a biotechnology company, a successful student should be able to 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
<i>or</i>	
BIO 002 Principles of Cell and Molecular Biology	5
CHEM 010 Intermediate Chemistry	4
<i>or</i>	
CHEM 001 General Chemistry	5
Total Units	22 – 24

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

Applied Biotechnology

Certificate of Achievement and Associate in Science Degree

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 Certificate of Achievement/Associate Degree will be able to:

1. Successfully enter the job market in the biotechnology industry

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.

Biotechnology

BIOT 051

3.0 Units

Principles of Biotechnology

Prerequisite: BIO 014 or BIO 002 or BIOT 160. Course Advisories: SCC minimum Math standard and Eligibility for ENGL 001. 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 Advisories: Eligibility for ENGL 001; 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.*

BIOT 062

4.0 Units

Cell Culture And Protein Recovery

Prerequisites: BIOSC 014 or BIOSC 002 or BIOTCH 160. Course Advisory: Eligibility for ENGL 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 and six hours lab weekly.*

BIOT 063

4.0 Units

Biotechnology Instrumentation: Quality Control & Genetic Engineering

Prerequisite: BIO 014 or BIO 002 or BIOT 160. Course Advisory: Eligibility for ENGL 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 and six hours lab weekly.*

BIOT 160

4.0 Units

Basic Concepts/Methods in Biotechnology

Prerequisites: MATH 104 or MATH 114 or equivalent. Course Advisory: SCC minimum English and math standards. NOTE: Not open to students who have completed CHEM 001, CHEM 010, BIO 002, BIO 014, or equivalent. 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, 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 and Associate in Science Degree

A Certificate of Achievement can be obtained by completing the 26-unit major with a grade of "C" or better in each course. 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 Certificate of Achievement/Associate Degree 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
<i>or</i>	
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

BUS 092 Business Communication
CIS 020 Assembly Programming
CIS 022 Introduction to Programming
CIS 023 Data Structures and Algorithms
CIS 025 FORTRAN Programming
MATH 011 Elementary Statistics
MATH 020 Analytic Geometry and Calculus I
MATH 021 Analytic Geometry and Calculus II
MATH 030 Analytic Geometry and Calculus
MATH 031 Analytic Geometry and Calculus
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

***Suggested general education math courses for the Business, General (Transfer) major are MATH 011 (Statistics) and MATH 015 (Finite Math) OR MATH 030 (Analytical Geometry and Calculus). Students should consult a counselor regarding Business Articulation Agreements**

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 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. What are 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 092 Business Communication	3
BUS 005 Introduction to Business	3
BUS 018 Legal Environment of Business	3
CIS 050 Microcomputer Applications	3
CIS 073 Microsoft Excel	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
OCED 090 Occupational Work Experience	1
Total Units	31

Recommended Electives

- MKT 171 Introduction to Marketing
- MKT 173 Principles of Selling

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

BUS 005 Introduction To Business <i>Course Advisories: Eligibility for ENGL 001, SCC minimum math standard.</i> 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. <i>Three hours lecture.</i>	3.0 Units	BUS 072 Personal Insurance <i>Course Advisories: Eligibility for English 001, SCC minimum math standard.</i> 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. <i>Three hours lecture.</i>	3.0 Units
BUS 018 Legal Environment Of Business <i>Course Advisories: Eligibility for ENGL 001, SCC minimum math standard.</i> A comprehensive introduction to the study of the law, with specific emphasis on the legal environment of business. Includes the legal process, legal institutions, contracts, agency, the Uniform Commercial Code (UCC), torts, employment, property, computer law, consumer protection, government regulation and Alternative Dispute Resolution (ADR), along with ethical concerns and current public policy issues. Written examinations required. <i>Three hours lecture.</i>	3.0 Units	BUS 073 Commercial Insurance <i>Course Advisories: Eligibility for English 001, SCC minimum math standard.</i> One of five insurance courses designed to prepare students for employment in the insurance industry. Emphasis for this course is on commercial insurance. The insurance industry offers many different types of employment opportunities, from selling insurance to working in an insurance office. <i>Three hours lecture.</i>	3.0 Units
BUS 060 Introduction To International Business <i>Course Advisories: Eligibility for English 001, SCC minimum math standard.</i> 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. <i>Three hours lecture.</i>	3.0 Units	BUS 074 Insurance-Code & Ethics <i>Course Advisories: Eligibility for English 001, SCC minimum math standard.</i> 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. <i>Three hours lecture.</i> (6 week course).	1.0 Unit
BUS 070 Introduction To Insurance <i>Course Advisories: Eligibility for English 001, SCC minimum math standard.</i> 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. <i>Three hours lecture.</i> (6 week course).	1.0 Unit	BUS 092 Business Communication <i>Course Advisories: Eligibility for ENGL 001; SCC minimum math standard.</i> 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. <i>Three hours lecture.</i>	3.0 Units
BUS 071 Principles Of Property And Liability Insurance <i>Course Advisories: Eligibility for English 001, SCC minimum math standard.</i> 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. <i>Three hours lecture.</i>	3.0 Units	BUS 099 Business Honors <i>Prerequisites: 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 Division Dean based on instructor availability.</i> A comprehensive study and analysis of a topic of student scholarship which is centered on important topics or issues within the business field. May be repeated to a maximum of 6 units, including initial enrollment. <i>Three to nine hours weekly by arrangement.</i>	1.0 to 3.0 Units

Business

BUS 100 Work Readiness <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three hours lecture</i> (8 week course).	1.5 Units	BUS 182 Small Business Mathematics <i>Course Advisories: SCC minimum English and math standards.</i> 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. Open Entry/Open Exit Course, Online Course is not Open Entry/Open Exit. <i>One hour lecture.</i>	1.0 Unit
BUS 119 Project Management <i>Prerequisites: CIS 001 or CIS 050 and BUS 005. Course Advisories: ECON 002, ACCT 002, CIS 091, BUS 092; SCC minimum English and math standards.</i> Integrates business concepts used in managing a development or business project such as the project's scope and goals, management of communication, cost and time management, and human resources together with using project management computer software designed for these tasks. Students will manage case studies using their understanding of business and using the software. (Same as CIS 119) <i>Three hours lecture, one hour lab weekly by arrangement.</i>	3.0 Units	BUS 191 Investment Fundamentals <i>Course Advisory: SCC minimum English standard.</i> A comprehensive study and analysis of investment strategies available to investors. Topics covered include the stock and bond market, gold, money markets and options. <i>Three hours lecture.</i>	3.0 Units
BUS 148A Small Business Project-Based Path for Entrepreneurs <i>Course Advisory: SCC minimum English and Math standards.</i> 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. <i>Three hours lecture.</i>	3.0 Units	BUS 201 Starting And Managing A Small Business Presents an overview of the process and steps involved in establishing a small business. Topics include entrepreneurial characteristics, success and failure factors, financing, management and business concerns, and developing a check list for planning a start-up. This is a credit/no-credit only course. <i>Eight hours lecture total.</i> (Two-week course)	.5 Unit
BUS 181 Business Mathematics <i>Course Advisory: SCC minimum English standard.</i> 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. Open Entry/Open Exit, Variable unit course, Online course is not Open Entry/Open Exit. Repeatable to a maximum of 3 units. <i>One to three hour(s) lecture.</i>	1.0 Unit	BUS 202 Financing A Small Business Examines various sources of money to start, buy, or expand a small business, including the many ways to start, buy, or expand a business with little or no money. This is a credit/no-credit only course. <i>Eight hours lecture total.</i> (Two-week course)	.5 Unit
		BUS 203 Business Financial Management Examines the preparation and analysis of financial statements and basic small business accounting techniques, using manual and/or computer systems. This is a credit/no-credit only course. <i>Eight hours lecture total.</i> (Two-week course)	.5 Unit
		BUS 204 Managing Credit And Collections Examines the functions of credit and collections, how to establish a credit policy and collections procedures, and how to avoid legal problems. This is a credit/no-credit only course. <i>Eight hours lecture total.</i> (Two-week course)	.5 Unit
		BUS 205 Business Budgeting Examines the use of budgeting techniques as an aid to making informed business decisions. Budgeting enables small business owners to reduce risk and increase the probability of success. This is a credit/no-credit only course. <i>Eight hours lecture total.</i> (Two-week course)	.5 Unit

Business

BUS 206 Planning For Sales And Profit Examines various business strategies that enable a small business to grow rapidly in size and profitability. This is a credit/no-credit only course. <i>Eight hours lecture total.</i> (Two-week course)	.5 Unit	BUS 210 Record Keeping For Small Business Examines the legal, tax, and other reasons for keeping business documents, what kinds should be kept, and how to create them. The use of various manual and computer systems is explored. This is a credit/no-credit only course. <i>Eight hours lecture total.</i> (Two-week course)	.5 Unit
BUS 207 Recruiting And Selecting Employees Explores the process of identifying human resource needs and the process of recruiting and selecting the right person. This is a credit/no-credit only course. <i>Eight hours lecture total.</i> (Two-week course)	.5 Unit	BUS 211 Marketing And Advertising Covers the process of determining what customers want to buy and how to sell products and services to them. This is a credit/no-credit only course. <i>Eight hours lecture total.</i> (Two-week course)	.5 Unit
BUS 208 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 credit/no-credit only course. <i>Eight hours lecture total.</i> (Two-week course)	.5 Unit	BUS 212 Risk Management And Insurance Focuses on the risks associated with owning a small business and how to reduce them. Explores the different types of insurance available. This is a credit/no-credit only course. <i>Eight hours lecture total.</i> (Two-week course)	.5 Unit
BUS 209 Establishing A Home-Based Business Presents the basic fundamentals and considerations involving the use of a private residence as the primary location of a small business. Topics include the advantages and disadvantages of home-based operations; licensing, zoning and use permits; legal and liability considerations, specific state and federal tax compliance; employing family members; and the business use of personal assets. This is a credit/no-credit only course. <i>Eight hours lecture total.</i> (Two-week course)	.5 Unit	BUS 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. Announcements of Special Topics courses appear in the Schedule of Classes.	

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 26-29 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 an Associate Degree will be able to:

1. Interpret and analyze chemical data
2. Apply chemical bonding knowledge to structural analysis
3. 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
<i>and</i>	
CHEM 002 General Chemistry	5
CHEM 003 Organic Chemistry I	5
<i>and</i>	
CHEM 004 Organic Chemistry II	5
BIO (any course except 048 or 098)	3 - 5
PHYS 002 General Physics (Non-calculus)	4
<i>or</i>	
PHYS 006 Physics for Science and Engineering	4
<i>or</i>	
PHYS 010 Descriptive Physics	3
Total Units	26 – 29

CHEM 001

5.0 Units

General Chemistry

Prerequisite: A grade of "C" or better in any of the following: MATH 104 or two years of high school algebra AND a grade of "C" or better in one of the following: CHEM 160 OR one year of high school chemistry. Course Advisories: Eligibility for ENGL 001 and CHEM 10 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 grade of "C" or better. Course Advisory: Eligibility for ENGL 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 grade of "C" or better. *Course Advisory:* ENGL 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 grade of "C" or better. *Course Advisory:* Eligibility for ENGL 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

Prerequisites: A grade of "C" or better in CHEM 160 or two semesters of high school chemistry, and a grade of "C" or better in MATH 104 or MATH 114 or two years of high school algebra. *NOTE:* Not open for credit to students who have completed CHEM 001. *Course Advisory:* Eligibility for ENGL 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(s): CHEM 010 or CHEM 001 with a grade of "C" or better. *Course Advisory:* Eligibility for ENGL 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(s): A grade of "C" or better in Chem 160 or two semesters of high school chemistry, and a grade of "C" or better in MATH 104 or MATH 114 or the equivalent or two years of high school algebra. *Course Advisory:* Eligibility for ENGL 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, functional groups and properties of organic compounds, and the structure and function of carbohydrates, lipids, proteins, and nucleic acids. These topics are discussed in the context of cellular metabolism and human health. *NOTE:* Not open for credit to students who have completed CHEM 011. This course is not a prerequisite for any chemistry course. Field trip may be required. Online homework may be required. *Three hours lecture, three hours lab.*

CHEM 097

1.0 Unit

Special Projects

Prerequisite: CHEM 002 with a grade of "C" or better. An independent laboratory project designed to increase a student's laboratory and reporting skills. Completion of chemical analyses and a written report are required. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement.*

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 grade of "C" or better in any of the following: MATH 104 or MATH 114 or two years of high school algebra. *NOTE:* Not open to students who have completed CHEM 001, CHEM 010, or equivalent. *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. *Three hours lecture, three hours lab.*

CHEM 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. Announcements of Special Topics courses appear in the Schedule of Classes.

Communication Studies

Program Description

This program is a broad based program concerned with the preparation and delivery of messages in interpersonal, public and mediated 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, Communications Consultant, Lawyer, Minister, Personnel Director, Television Director or Producer, Broadcast Journalist, Public Relations, Political Campaign Aide, Sales, Counselor.

Associate in Arts Degree

The Associate in Arts degree can be obtained upon completion 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 an Associate 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 multiple contexts.
4. Communicate utilizing a variety of performance methods.

Required Courses	Units
SPCH 001 Introduction to Public Speaking	3
SPCH 006 Argumentation and Debate	3
SPCH 010 Interpersonal Communication	3
SPCH 015 Oral Interpretation of Literature	3
SPCH 060 Business and Professional Communication	3
TV 050 Survey of Broadcasting	3
Total Units	18

Recommended Electives

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
PSYC 001 Introduction to Psychology
SPCH 002 Fundamentals of Persuasive Speaking
SPCH 050 Forensics/Speech Workshop
THEA 001 Principles and Theory of Acting
TV 055 Beginning Television Production

SPCH 001	3.0 Units
Introduction to Public Speaking	
<i>Course Advisory: Eligibility for ENGL 001.</i> 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; and to critically analyze public speeches of various types. <i>Three hours lecture.</i>	

SPCH 002	3.0 Units
Fundamentals of Persuasive Speaking	
<i>Course Advisory: Eligibility for ENGL 001.</i> 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. <i>Three hours lecture.</i>	

SPCH 006	3.0 Units
Argumentation and Debate	
<i>Course Advisory: Eligibility for ENGL 001.</i> 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. <i>Three hours lecture.</i>	

SPCH 008	3.0 Units
Group Communication	
<i>Course Advisory: SCC minimum English standard.</i> 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. <i>Three hours lecture.</i>	

Communication Studies

SPCH 010 Interpersonal Communications <i>Course Advisory: Eligibility for ENGL 001.</i> Communication principles as applied to different interpersonal communication situations including verbal and non-verbal communication, listening, overcoming barriers to communication, and conflict resolution. <i>Three hours lecture.</i>	3.0 Units	SPCH 050 Forensics/Speech Workshop <i>Course Advisory: Eligibility for ENGL 001.</i> 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. Open entry/exit. Repeatable 3 times. <i>One hour lecture and zero to nine hours lab.</i>	1.0 to 4.0 Units
SPCH 012 Intercultural Communication <i>Course Advisory: SCC minimum English standard.</i> 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. <i>Three hours lecture.</i>	3.0 Units	SPCH 060 Business and Professional Communication <i>Course Advisory: Eligibility for ENGL 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units
SPCH 015 Oral Interpretation of Literature <i>Course Advisory: SCC minimum English standard.</i> Study of literature through oral performance which 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. <i>Three hours lecture.</i>	3.0 Units	SPCH 075 Sports Broadcasting <i>Course Advisories: SCC minimum Math standard; eligibility for ENGL 001; Speech 001.</i> A professional approach to the basics of on-air and internet sports broadcasting. Areas of concentration include performance training for play-by-play description, color commentary, compiling and organizing statistical data for a variety of sporting events. 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. Students will be required to attend weekly athletic competitions. <i>One hours lecture, 2 hours activity, 3 hours by arrangement weekly.</i>	3.0 Units
SPCH 049 Speech Honors <i>Prerequisites: Completion of 30 or more units of transferable college credit including 6 units of transferable speech; ENGL 001 with a grade of B or better; an ability to work independently; and permission of the Division Dean based on instructor availability.</i> 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. <i>Three to nine hours weekly by arrangement.</i>	1.0 to 3.0 Units		

Computer and 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 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

Recommended Electives

CIS 025 FORTRAN Programming
CIS 035 Introduction to Java Programming
CIS 060 Introduction to the Internet
CIS 061 Creating Web Pages
CIS 063 WordPerfect
CIS 066 Microsoft Word
CIS 068 Object Oriented Game Programming with Flash
CIS 073 Microsoft Excel
CIS 080 SQL Database Management Systems
CIS 108 Fast Track WordPerfect
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

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.

Computer and 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 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
CIS 001 Introduction to Computer Science	3
CIS 055 MS Windows Operating Systems	3
CIS 015 Programming in Visual Basic.NET	3
CIS 066 Microsoft Word	3
CIS 073 Microsoft Excel	3
CIS 089 Essential Networking Technologies	3
CIS 078 Access -Database Management System	3
CIS 090 Introduction to PowerPoint	1.5
CIS 061 Creating Web Pages	3
BUS 092 Business Communication	3
CIS 091 Microsoft Outlook	1.5
Total Units	30

Recommended Electives

CIS 020 Assembly Programming
CIS 022 Introduction to Programming
CIS 025 FORTRAN 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
CIS 108 Fast Track WordPerfect
ACCT 001 Principles of Accounting – Financial
ACCT 002 Principles of Accounting - Managerial
BUS 005 Introduction to Business
ECTN 158 Microcomputer Maintenance
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

Computer and 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 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)
CIS 015 Programming in Visual Basic.NET
CIS 022 Introduction to Programming
CIS 023 Data Structures and Algorithms
CIS 035 Introduction to Java Programming
CIS 068 Object Oriented Game Programming with Flash
CIS 078 Access -Database Management System
CIS 108 Fast Track WordPerfect
CIS 120 Developing XML Web Services
CIS 121 PHP Programming with MySQL

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

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

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 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 073 Microsoft Excel	3
CIS 066 Microsoft Word	3
or	
CIS 063 WordPerfect	3
CIS 078 Access -Database Management System	3
Total Units	10.5

Computer and Information Science

Home-Based Computer Processor 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 073 Microsoft Excel	3
CIS 066 Microsoft Word	3
<i>or</i>	
CIS 063 WordPerfect	3
OT 100 Skill Building on the Computer Keyboard	1
BUS 201 Starting and Managing a Small Business	0.5
BUS 210 Record Keeping for Small Business	0.5
BUS 209 Establishing a Home-Based Business	0.5
Total Units	10

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

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 075 Client-Side Web Programming	3
CIS 081 Server-Side Web Programming	3
CIS 068 Object Oriented Game Programming with Flash	3
Total Units	15

CIS 001	3.0 Units
Introduction To Computer Science	
<i>Course Advisories: SCC minimum English and math standards; keyboarding 30 wpm.</i> An introduction to the hardware and software components of basic computer systems. 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. <i>Three hours lecture, one hour lab weekly by arrangement.</i>	

CIS 015	3.0 Units
Programming In Visual Basic.NET	
<i>Course Advisories: CIS 001 with a grade of "C" or "CR" or better; SCC minimum English and math standards.</i> 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. <i>Three hours lecture, one hour lab weekly by arrangement.</i>	

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CIS 020 **3.0 Units**
Assembly Programming
Prerequisites: CIS 010 or 015 or 022 or 035 with a grade of "C" or "CR" or better. Course Advisories: 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. *Three hours lecture, one hour lab weekly by arrangement.*

CIS 022 **3.0 Units**
Introduction to Programming
Prerequisites: CIS 001 with a grade of "C" or "CR" or better. Course Advisories: 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.). *Three hours lecture, one hour lab weekly by arrangement.*

CIS 023 **3.0 Units**
Data Structures And Algorithms
Prerequisites: CIS 22 with a grade of "C" or "CR" or better. Course Advisories: 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 weekly by arrangement.*

CIS 025 **3.0 Units**
FORTRAN Programming
Prerequisite: CIS 001 with a grade of "C" or "CR" or better. An introduction to the FORTRAN programming language. Students will learn to code, compile, test, and debug simple programs in the areas of mathematics, science, and business. Topics will include use of subprograms, file processing, multi-dimensional arrays, and structured programming concepts for selection and iteration techniques. *Three hours lecture, one hour lab weekly by arrangement.*

CIS 035 **3.0 Units**
Introduction to Java Programming
Prerequisites: CIS 022 or CIS 023 or 015 with a grade of "C" or better. Course Advisories: 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. *Three hours lecture, one hour lab weekly by arrangement.*

CIS 049 **1.0 to 3.0 Units**
Computer Programming Honors
Prerequisites: 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 Division Dean based on instructor availability. Course Advisories: 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. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement.*

CIS 050 **3.0 Units**
Microcomputer Applications
Course Advisories: Basic keyboarding skills at 30 wpm; SCC minimum English and math standards. NOTE: Not open to students who have received credit in CIS 001. 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, one hour lab weekly by arrangement.*

CIS 052 **3.0 Units**
UNIX Operating System
Course Advisories: CIS 055 with a grade of "C" or "CR" or better; 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, one hour lab weekly by arrangement.*

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CIS 055 MS Windows Operating Systems <i>Course Advisories: CIS 001 with a grade of "C" or "CR" or better; basic keyboarding skills.</i> 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. <i>Three hours lecture, one hour lab weekly by arrangement.</i>	3.0 Units	CIS 062 Creating Web Interactivity with Flash <i>Course Advisories: CIS 001 with a grade of "C" or "CR" or better; CIS 061 with a grade of 'C' or 'CR' or better ; SCC minimum English and math standards.</i> 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. <i>Three hours lecture, one hour lab weekly by arrangement.</i>	3.0 Units
CIS 057 Introduction To Microsoft Windows <i>Course Advisories: CIS 001 with a grade of "C" or "CR" or better; ability to keyboard at 30 wpm.</i> Designed to familiarize students with the major features of the Microsoft Windows operating systems file management using My Computer, Explorer, Find; customizing the system using control panel; using accessories such as Paintbrush, Wordpad, Notepad, Calculator; and using other advanced features including OLE (object linking and embedding); backing up and maintaining the system, and the MS Windows Registry. <i>Three hours lecture, one hour lab weekly by arrangement.</i> (8 week course).	1.5 Units	CIS 063 Wordperfect <i>Course Advisories: CIS 001 with a grade of "C" or "CR" or better; ability to keyboard at 30 wpm.</i> Provides a thorough study of the WordPerfect word processing program. Students will use basic functions to create business documents as well as advanced features such as macros, mail merge, sorting, graphics, charts, columns, outlining, and styles. <i>Three hours lecture, one hour lab weekly by arrangement.</i>	3.0 Units
CIS 060 Introduction to the Internet <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three hours lecture, one hour lab weekly by arrangement.</i> (8 week course).	1.5 Units	CIS 066 Microsoft Word <i>Course Advisories: CIS 001 or CIS 050 with a grade of "C" or "CR" or better; ability to keyboard at 30 wpm.</i> 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. <i>Three hours lecture, one hour lab weekly by arrangement.</i>	3.0 Units
CIS 061 Creating Web Pages <i>Course Advisories: CIS 001; SCC minimum English and math standards.</i> 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. Repeatable 3 times. NOTE: Repeatable for different HTML browsers, i.e. FrontPage, Dreamweaver, etc. <i>Three hours lecture, one hour lab weekly by arrangement.</i>	3.0 Units	CIS 068 Object Oriented Game Programming With Flash <i>Prerequisite: CIS 062 with a grade of 'C' or better. Course Advisories: CIS 001 with a grade of "C" or "CR" or better; SCC minimum English and math standards.</i> 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. <i>Three hours lecture, one hour lab weekly by arrangement.</i>	3.0 Units

Computer and Information Science

CIS 069

3.0 Units

Multimedia For The Web

Course Advisories: CIS 001 with a grade of 'C' or better; CIS 061 with a grade of 'C' or better; 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, one hour lab weekly by arrangement.*

CIS 070

3.0 Units

Adobe Photoshop for the Web

Course Advisories: SCC minimum English and Math Standards CIS 001 or CIS 050 with a grade of Pass or No 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. Repeatability: None. The course may be taken up to three times for credit if the software version has changed. *Three hours lecture, one hour lab.*

CIS 072

1.5 Units

Extensible Markup Language (Xml)

Course Advisories: CIS 001 with a grade of 'C' or better; CIS 061 with a grade of 'C' or better; 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, one hour lab weekly by arrangement (8 week course).*

CIS 073

3.0 Units

Microsoft Excel

Course Advisories: CIS 001 with a grade of 'C' or 'CR' or better; 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, one hour lab weekly by arrangement.*

CIS 075

3.0 Units

Client-Side Web Programming

Course Advisories: CIS 001 with a grade of 'C' or better; CIS 061 with a grade of 'C' or better; 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, one hour lab weekly by arrangement.*

CIS 078

3.0 Units

Database Management Systems

Course Advisories: CIS 001 with a grade of 'C' or 'CR' or better. An introduction to relational database management using microcomputers. Microsoft's Access database management program is used. Students will learn how to create and maintain relational database structures, organize and manipulate data, ask questions of the data, create custom forms for entering data and custom reports for printing the data. How to publish objects on the Internet's World Wide Web is presented. The student will learn how to construct a complete application combining previously created tables, queries, forms, and reports. Visual BASIC Applications (VBA) and Structured Query Language (SQL) are introduced. Advanced database design is explored and the student learns how to 'normalize' a database structure. *Three hours lecture, one hour lab weekly by arrangement.*

CIS 080

3.0 Units

SQL Database Management Systems

Prerequisite: A grade of "C" or better in CIS 078 or equivalent. Course Advisories: 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, one hour lab weekly by arrangement.*

CIS 081

3.0 Units

Server-Side Web Programming

Course Advisories: CIS 001 with a grade of 'C' or better; CIS 061 with a grade of 'C' or better; 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, one hour lab weekly by arrangement.*

CIS 083

3.0 Units

Web Server Administration

Course Advisories: CIS 001 with a grade of 'C' or better; CIS 061 with a grade of 'C' or better; 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, one hour lab weekly by arrangement.*

Computer and Information Science

CIS 085 Digital Publishing with InDesign <i>Course Advisories: SCC minimum English and Math Standards CIS 001 or CIS 050 with a grade of Pass or No Pass or better or equivalent.</i> 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. Repeatability: None. The course may be taken up to three times for credit if the software version has changed. <i>Three hours lecture and one hour lab.</i>	3.0 Units	CIS 093 Ms Publisher <i>Course Advisories: CIS 001 or CIS 050 with a grade of 'C' or 'CR' or better; SCC minimum English and math standards.</i> Provides 'hand-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. <i>Three hours lecture, one hour lab weekly by arrangement (8 week course).</i>	1.5 Units
CIS 087 Adobe Illustrator for the Web <i>Course Advisories: SCC minimum English and math standards CIS 001 or CIS 050 with a grade of Pass or No Pass or better or equivalent.</i> 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. Repeatability: None. The course may be taken up to three times for credit if the software version has changed. <i>Three hours lecture, one hour lab.</i>	3.0 Units	CIS 100 Fast Track Introduction To Computers <i>Course Advisories: SCC minimum English and math standards.</i> A brief introduction to the microcomputer for novices. Includes an overview of computer components and functions, as well as its uses. This is a credit/no credit only course. <i>Eight hours lecture (1 week course).</i>	.5 Unit
CIS 089 Essential Networking Technologies <i>Course Advisories: CIS 001 with a grade of 'C' or 'CR' or better; SCC minimum English and math standards.</i> 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. <i>Three hours lecture, one hour lab weekly by arrangement.</i>	3.0 Units	CIS 101 Fast Track Windows <i>Course Advisories: SCC minimum English and math standards; previous computer experience; keyboarding at 30wpm.</i> Designed to introduce the student to the most elementary functions of Windows. This is a credit/no credit only course. <i>Eight hours lecture. (1 week course).</i>	.5 Unit
CIS 090 Introduction To Powerpoint <i>Course Advisories: CIS 001 or CIS 050 with a grade of 'C' or 'CR' or better; ability to keyboard.</i> This course introduces features and design concepts utilized in developing powerful presentations using a package software such as Microsoft PowerPoint. <i>Three hours lecture, one hour lab weekly by arrangement (8 week course).</i>	1.5 Units	CIS 102 Fast Track Microsoft Word <i>Course Advisories: SCC minimum English and math standards; previous computer experience; keyboarding at 30wpm.</i> Designed to introduce to students the most elementary functions of Microsoft Word. This is a credit/no credit only course. <i>Eight hours lecture (1 week course).</i>	.5 Unit
CIS 091 Microsoft Outlook <i>Course Advisories: SCC minimum English standard, CIS 001 or CIS 050 with a grade of 'C' or better; basic keyboarding skills.</i> 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. <i>Three hours lecture, one hour lab weekly (8 week course).</i>	1.5 Units	CIS 103 Fast Track Internet <i>Course Advisories: SCC minimum English and math standards; previous computer experience; keyboarding at 30wpm.</i> Designed to introduce the student to the most elementary features of working on the Internet. This is a credit/no credit only course. <i>Eight hours lecture. (1 week course).</i>	.5 Unit
		CIS 104 Fast Track Powerpoint <i>Course Advisories: SCC minimum English and math standards; previous computer experience; keyboarding at 30wpm.</i> Designed to introduce the student to the most elementary functions of Microsoft PowerPoint. This is a credit/no credit only course. <i>Eight hours lecture. (1 week course).</i>	.5 Unit

Computer and Information Science

CIS 105 Fast Track Excel <i>Course Advisories: SCC minimum English and math standards; previous computer experience; keyboarding at 30wpm.</i> Designed to introduce the student to the most elementary functions of Excel. This is a credit/no credit only course. <i>Eight hours lecture.</i> (1 week course).	.5 Unit	CIS 111 Web Design with Cascading Style Sheets <i>Course Advisories: CIS 061 with a grade of 'C' or 'CR' or better; SCC minimum English and math standards.</i> 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. <i>Three hours lecture, one hour lab weekly by arrangement.</i> (8 week course).	1.5 Units
CIS 106 Fast Track Computer Literacy <i>Course Advisories: SCC minimum English and math standards.</i> Designed to provide a brief introduction to microcomputers for novices. It includes an introduction to computer components, and also includes hands-on activities utilizing the Windows operating system, word processing and spreadsheet software and the internet. This is a credit/no credit only course. <i>Two hour lecture, one hour weekly by arrangement.</i> (8 week course).	1.0 Unit	CIS 112 Introduction to Robotics Programming <i>Prerequisite: CIS 1. Course Advisories: SCC minimum English and math standards.</i> 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 manipulate 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. <i>Three hours lecture, one hour lab weekly by arrangement.</i>	3.0 Units
CIS 107 Fast Track Outlook <i>Course Advisories: SCC minimum English and math standards.</i> Designed to introduce to students to a desktop information management program using Microsoft Outlook for email, calendaring, contacts, tasks, files, and to track activities. This is a credit/no credit only course. Eight hours lecture. (1 week course).	.5 Unit	CIS 113 Introduction to Programmable Logic Controllers <i>Prerequisite(s): CIS 001. Course Advisory: SCC minimum English and Math Standards.</i> 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. <i>Three lecture hours.</i>	3.0 Units
CIS 108 Fast Track WordPerfect <i>Course Advisories: SCC minimum English and math standards; previous computer experience; keyboarding at 30wpm.</i> Designed to introduce to students the most elementary functions of WordPerfect. This is a credit/no credit only course. <i>Eight hours lecture.</i> (1 week course).	.5 Unit	CIS 115 COBOL Programming <i>Prerequisites: CIS 022 with a grade of 'C' or 'CR' or better or CIS 015 with a grade of 'C' or 'CR' or better. Course Advisories: SCC minimum English and math standards.</i> Covers elements of the COBOL programming language including data description; arithmetic operations; sequential, random, and indexed file manipulation; tables; sorting; data validation; and control break summary reports. Emphasis will be on top-down, structured design techniques. <i>Three hours lecture, one hour lab weekly by arrangement.</i>	3.0 Units
CIS 109 Fast Track Quicken For Windows <i>Course Advisories: SCC minimum English and math standards; previous computer experience; keyboarding at 30wpm.</i> Designed to introduce the student to the most elementary functions of Quicken for Windows 2005. This is a credit/no credit only course. <i>Eight hours lecture.</i> (1 week course).	.5 Unit		
CIS 110 Wireless Lans <i>Course Advisories: CIS 001 with a grade of 'C' or 'CR' or better; SCC minimum English and math standards.</i> 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. <i>Three hours lecture, one hour lab weekly.</i> (8 week course).	1.5 Units		

Computer and Information Science

CIS 119

3.0 Units

Project Management

Prerequisites: CIS 001 or CIS 050 and BUS 005. Course Advisories: ECON 002, ACCT 002, CIS 091, BUS 092; SCC minimum English and math standards. This course integrates business concepts used in managing a development or business project such as the project's scope and goals, management of communication, cost and time management, and human resources together with using project management computer software designed for these tasks. Students will manage case studies using their understanding of business and using the software. (Same as BUS 119) *Three hours lecture, one hour lab weekly by arrangement.*

CIS 120

1.5 Units

Developing XML Web Services

Prerequisite(s): CIS 072. Course Advisory: SCC minimum English and Math Standards and CIS 001. 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 weekly 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 weekly by arrangement.*

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. (Same as ECTN 172). *1 hour lecture, 1.5 hours lab weekly.*

CIS 173

3.0 Units

Computer Forensics Investigations

Prerequisite(s): CIS 001. Course Advisory: SCC minimum Math standard and Eligibility for ENGL 001. 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. (Same as ECTRN 173).

CIS 174

3.0 Units

Computer Forensics: Operating Systems Internals

Prerequisite(s): CIS 173 with a Grade of C or better or ECTRN 173 with a Grade of C or better. 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. (Same as ECTRN 174). *Two lecture hours, and 3 hours lab weekly.*

CIS 178

.5 Unit

Fast Track Access

Advisories: Minimum Standards: SCC minimum English and MATH standards; Previous computer experience, keyboarding at 30wpm. Designed to introduce to students the most elementary functions of database management using Access. *Eight hours lecture.* (1 week course).

CIS 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. Announcements of Special Topics courses appear in the Schedule of Classes.

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 37.5 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 37.5 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 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	37.5

Recommended Electives:

COSM 103a Cosmetology IV
COSM 103b Cosmetology V
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 118A Imaging Systems I
COSM 118B Imaging Systems II
COSM 171 Manicure Practices
COSM 172 Pedicure Practices
COSM 173 Artificial Nails
COSM 174 Nail Systems
COSM 175 Cosmetology Education Practicum
OCED 090 Occupational Work Experience
OCED 091 General Work Experience
COSM 104A Esthetics of Skin Care I

Nail Technician Job-Direct Certificate

The required courses must be completed with a "C" or better.

Required Courses Units

COSM 171 Manicure Practices	3
COSM 172 Pedicure Practices	3
COSM 173 Artificial Nails	3
COSM 174 Nail Systems	3
Total Units	12

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

Cosmetology

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 COSME 150 or 151. *Five hours lecture, twenty-two and one-half hours lab.*

COSM 101

12.5 Units

Cosmetology II

Prerequisites: COSM 100 or COSM 150 and 151. The second of a three 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: 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-two and one-half hours lab.*

COSM 102

12.5 Units

Cosmetology III

Prerequisite: COSM 101. The third in a series of a three 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: 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, 22.5 hours lab.*

COSM 103A

6.0 Units

Cosmetology IV

Prerequisite(s): COSM 100,101,102. Course Advisory: SCC minimum English and math standards. 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. 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 and twenty two and one-half hours lab* (8 weeks course).(Formerly COSM 103)

COSM 103B

6.0 Units

Cosmetology V

Prerequisite(s): 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

Prerequisites: 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 faciating 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.*

Cosmetology

COSM 104B **1.0 to 4.0 Units** **Esthetic Skin Care II**

Prerequisites: COSME 104A. A continuation of Cosmetology 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. 1 unit requires 50 hours total; 2 units require 100 hours total; 3 units require 150 hours total; 4 units require 200 hours. A total of fifty lab hours per semester per unit. *Five hours lecture, thirty hours lab.*

COSM 105A **10.0 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. Repeatability: Not Repeatable. 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: Students are required to purchase a mandatory equipment kit and materials card at the college bookstore. 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 104A.

COSM 105B **10.0 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. Repeatability: Not Repeatable. This course continues the basic skills practice and technical training from COSME 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 COSME 104A or students enrolled in COSME 104B.

COSM 110 **1.0 to 3.0 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: 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 hours activities.* (6 week course).

COSM 111 **2.0 Units** **Special Hair Processing**

Prerequisite: Current California State Cosmetology License or COSM 100 (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.*

Cosmetology

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.*

COSM 115 **13.0 Units** **Cosmetology Instructor Training I**

Prerequisites: 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**

Prerequisite: None. NOTE: Not open to students who have completed COSM 171, 172, 173, or 174. 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. *Five hours lecture, thirty hours lab.*

COSM 118A **2.0 Units** **Imaging Systems I**

Prerequisite: Successful completion of COSM 100 or currently licensed with the California Board of Barbering and Cosmetology. Presents the basic concepts and uses of computerized imaging systems, including the study of theoretical principles of computerized hair styling and hair cutting for creating graphic images. 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 118B **2.0 Units** **Imaging Systems II**

Prerequisite: COSM 118A. Presents the theory and use of computer imaging systems. An in-depth study of client consultation principles, color analysis, make-up application, and hair styling options as applied to creating graphic computer images. The students use the New Image System's Computer for creating total makeovers. NOTE: Students are required to purchase a materials card from the SCC bookstore. *One hour lecture, three hours lab.*

Cosmetology

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).

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 171

3.0 Units

Manicure Practices

Prerequisite: None. NOTE: Not open to students who have completed COSM 117. Course Advisory: SCC minimum English standard. Provides one hundred (100) hours of training and intensive study in various methodologies of nail care including water and European manicures, spa therapy massage and reflexology techniques, with emphasis on practical skills including client consultation, safety, and analysis of manicure cosmetics. First-time students enrolling in the Cosmetology-Manicuring class series 171, 172, 173, 174, 175 will be required to attend the cosmetology orientation meeting and purchase a materials card at registration in addition to the registrations fees (refer to the schedule of classes). 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 Cosmetology 117. *Five hours lecture, fifteen hours lab* (5 week course).

COSM 172

3.0 Units

Pedicure Practices

Prerequisite: None. NOTE: Not open to students who have received credit for COSM 117. Course Advisory: SCC minimum English standard. Provides one hundred (100) hours of training and intensive study in various techniques of pedicuring with emphasis on practical skills including foot care, sanitation and patron safety. First-time students enrolling in the Cosmetology-Manicuring class series 171, 172, 173, 174, 175 will be required to attend the cosmetology orientation meeting and purchase a materials card at registration in addition to the registrations fees (refer to the schedule of classes). 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 Cosmetology 117. *Five hours lecture, fifteen hours lab* (5 week course).

COSM 173

3.0 Units

Artificial Nails

Prerequisite: None. Course Advisory: SCC minimum English standard. Provides one hundred (100) hours of training and intensive study in artificial nail services including acrylic, tips, and nail wrap methodologies with emphasis on techniques and application skills, identification of artificial nail preparations as related to chemical and non-chemical changes. First-time students enrolling in the Cosmetology-Manicuring class series 171, 172, 173, 174, 175 will be required to attend the cosmetology orientation meeting and purchase a materials card at registration in addition to the registrations fees (refer to the schedule of classes). 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 Cosmetology 117. *Five hours lecture and fifteen hours lab* (5 week course).

COSM 174

3.0 Units

Nail Systems

Prerequisite: None. Course Advisory: SCC minimum English standard. Provides one hundred (100) hours of training in nail system concepts, practices, and principles, including nail strengthening and artificial extension, adhesive, non-adhesive, acrylic, and non-acrylic nails and practical applications of ergonomic techniques. First-time students enrolling in the Cosmetology-Manicuring class series 171, 172, 173, 174, 175 will be required to attend the cosmetology orientation meeting and purchase a materials card at registration in addition to the registrations fees (refer to the schedule of classes). 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 Cosmetology 117. *Five hours lecture and fifteen hours lab* (5 week course).

Cosmetology

COSM 175

Cosmetology Education Practicum

Prerequisites: COSM 100, or 101, or 102, or 104A, or 104B, or 117, or 171, or 172, or 173, or 174. 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. 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 purchase a materials fee at the time of registration. Not open to students who have completed Cosmetology 103B. *Four hours lecture, twenty four hours lab* (8 week course)

6.0 Units

COSM 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. Announcements of Special Topics courses appear in the Schedule of Classes.

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 Advisories: Eligibility for ENGL 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 Advisories: Eligibility for ENGL 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 Advisories: Eligibility for ENGL 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 060

2.0 Units

Strategies For Re-Entry Success

Course Advisory: SCC minimum English standard. Designed to give students who are returning to school after an absence an introduction to and practice in skills to successfully complete college level studies. This course is intended to facilitate students' confidence in their abilities to succeed through: an introduction to academic skills and effective communication; and exploration of college goal choices. Also included are techniques to help students discover and overcome common barriers such as: fears, time constraints, family resistance and personal stressors. *Two hours lecture.*

COUN 061

2.0 Units

Math Without Fear

Course Advisory: SCC minimum English standard. A counseling course to help math-anxious students evaluate the causes of math anxiety, to develop interventions to reduce math fear, to review math skills and to explore a variety of mathematical concepts. *Two hours lecture.*

COUN 062

3.0 Units

Helping Skills: Creating Alliances & Facilitating Change

Course Advisories: COUN 083, Eligibility for ENGL 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 063

3.0 to 6.0 Units

Field Work

Prerequisite: COUN 062. Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard; HS 055 (or concurrent enrollment)(for Human Services Majors only). A field work experience course designed to provide students with supervised experiential learning opportunities in a variety of community settings related directly to working in Human Services or other humanistic fields of study. This experience can be for pay or volunteer and students are expected to have established an approved placement by the end of the second week of class. The field experience will be combined with classroom lecture and discussion to promote continued career and helping skills development in order to become effective culturally sensitive professionals. May be repeated to a maximum of 12 units, including initial enrollment. *Two hours lecture and four to twelve hours weekly by arrangement.*

COUN 064A

4.0 Units

Practicum I

Prerequisites: COUN 062, HS 051, HS 053. Course Advisories: Eligibility for ENGL 1 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 Advisories: Eligibility for ENGL 001, SCC minimum Math standard and HS 055. 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 Associates degree requirement and will help students further clarify their potential for a longer range educational and career path in Human Services, Social Work or Counseling. Practicum Sites often require students to pass a criminal background check. Repeatable 2 times. *Two hours lecture, six hours by arrangement.*

COUN 068

1.0 Unit

University Transfer Success

Course Advisories: 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 Advisories: Eligibility for ENGL 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 Advisories: 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 Lecture Hours Weekly.*

Counseling

- COUN 101** .5 Unit
Orientation For College Success
Course Advisories: SCC minimum English and Math standards. This short-term course provides an in-depth orientation to college by introducing students to Solano Community College's student support services, describing certificate, associate degree and transfer preparation and requirements, and by reviewing the college's academic expectations. Educational goal setting will also be introduced. Students will be required to purchase a current Solano College catalog. *Two hours lecture.*
- COUN 102A** .5 Unit
Time Management & Goal Setting
Course Advisories: 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 7 with a grade of "C" or better. *Four hours lecture* (2 week course).
- COUN 102B** .5 Unit
Test Taking, Test Anxiety & Memory
Course Advisories: 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 7 with a grade of "C" or better. *Four hours lecture.* (2 week course)
- COUN 102C** .5 Unit
Study Systems
Course Advisories: 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 7 with a grade of "C" or better. *Four hours lecture.* (2 week course)
- COUN 103** 3.0 Units
Disability And Success
Course Advisory: SCC minimum English and Math Standards; Primarily for students with disabilities. This is an orientation course to assist students with disabilities in accessing services and completing their community college goals. It includes the SCC Disability Service Program, the College community, community agencies serving people with disabilities, laws and disabilities, coping with a disability, self advocacy, success in the classroom, and a final "Plan for Personal Disability Management." Student will receive a letter grade. *Three lecture hours.*
- COUN 104** 3.0 Units
Wellness and Maintaining Good Health
This course provides the tools, goals, and objectives, toward creating and maintaining good mental health. The course also addresses strategies for creating and maintaining health in the face of living with a chronic illness. Students will create their personal Wellness and Recovery Action Plan (WRAP) based on the concepts presented. This is a Pass/no-pass only course. *Three lecture hours.*
- COUN 148B** 1.0 Unit
Math, Engineering And Science Achievement (MESA) Enrichment
This course is designed to assist Math, Engineering and Science Achievement (MESA) students to obtain the knowledge and skills necessary to reach their educational objectives in engineering, mathematics and science related fields. However, the course is open to all students. Topics to be covered include: decision making on careers; educational and personal enrichment; math and science study skills and habits including time management, academic preparation, building of self-confidence; and transfer and career strategies in math, engineering and science. *One hour lecture.*
- COUN 148D** 3.0 Units
Wellness and Maintaining Good Health
This course provides the tools, goals, and objectives, toward creating and maintaining good mental health. The course also addresses strategies for creating and maintaining health in the face of living with a chronic illness. Students will create their personal Wellness and Recovery Action Plan (WRAP) based on the concepts presented. This is a Pass/No Pass only. *Three hours lecture.*
- COUN 148E** 1.0 Unit
Transition To College for Students with Disabilities
This is a transition course for high school seniors who are planning on entering the Community College system and receiving Disability Services. It includes the matriculation process of entering into college, the difference between college and high school for students with disabilities. Students will obtain a beginning understanding of how to navigate successfully through the Community College system and Disability Services. This is a pass/no pass only course. *Two hours lecture.*

Counseling

COUN 301

3.0 Units

Career Awareness and Disability Success

Prerequisite: Permission of Disability Services Counselor to help the student make a match between this specialized disability course content and methodology and the individual's needs and expected learning outcomes. Course Advisory: Primarily for Students with Disabilities. This course introduces career and job awareness and readiness for students with a disability. It will cover career and job related, interests, aptitudes, and personality characteristics. Students will also develop an awareness of the strengths and difficulties with their disability in particular job related task analyses. Disability related community agencies, as well as disability benefits versus employment salaries will be covered. This is a pass / no-pass only course. Repeatable 1 time. *Three lecture hours.*

COUN 302

3.0 Units

Adaptive Personal Development Life Skills

Prerequisite: Permission of Disability Services Counselor to help the student make a match between this specialized disability course content and methodology and the individual's needs and expected learning outcomes. Course Advisory: Primarily for students with disabilities. This Adaptive Personal Development course will teach students methods to enhance their self esteem and self determination. Students will also learn disability awareness, a healthy life style, interpersonal relations, and independent living skills. This is a pass / no-pass only course. Repeatable 1 time. *Three lecture hours.*

COUN 303

3.0 Units

Life Skills for Health

Prerequisite: Permission of Disability Services Counselor to help the student make a match between this specialized disability course content and methodology and the individual's needs and expected learning outcomes. This is a health course primarily for students with disabilities who are transitioning into the community for the purpose of having a healthy approach to life for personal, family and career life skills. This is a pass / no-pass only course. Repeatable 1 time. *Three lecture hours.*

COUN 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. Announcements of Special Topics courses appear in the Schedule of Classes.

Learning Skills

LS 102

3.0 Units

Learning Skills Strategies

Course Advisories: SCC minimum English and math standards. Enrollment in other college courses recommended as strategies are applied to curricular materials. Helps the student with cognitive learning and processing disabilities that is planning to transfer to a 4-year school. The student will learn to analyze, compare, think critically and select effective learning strategies to help them access college curricular materials. Throughout the semester, students will learn to develop their self-understanding and ability to advocate for effective accommodations in academic, work, and social settings. *Two hours lecture, two hours activity.*

LS 301B

1.0 Unit

Reading Strategies

Course Advisories: SCC minimum English and math standards. Enrollment in other classes is strongly recommended as strategies are applied to curricular materials. This course is one in a series of four that helps students with cognitive processing disabilities. This course focuses on strategies specific to reading needs. Students will learn to apply paraphrasing, questioning, pre-reading, vocabulary, and other strategies to help with their processing deficits. This is a Pass/No pass only course. *Two hours lecture, one hour activity* (8 week course).

LS 301C

1.0 Unit

Writing Strategies

Course advisory: SCC minimum English and math standards; student advised to meet with DSP counselor and instructor prior to enrollment. Student advised to take other non-Learning Skills courses. This course is one in a series of four that helps students with cognitive processing disabilities. This course focuses on alternative strategies to become skillful in sentence writing, paragraph writing, error monitoring and theme writing to access their college classes. This is a Pass/No pass only course. *Two hours lecture, one hour activity* (8 week course).

LS 306A

3.0 Units

Spelling Strategies

Emphasizes special spelling techniques, computer-assisted instruction, and assistive-device instruction to help the student compensate for a specific spelling disabilities impacting his/her college courses. Covers phoneme awareness, morphograph analysis, and beginning rule applications to affixes and base words. The students also begin to learn compensatory strategies. This is a Pass/No pass only course. Repeatable 1 time NOTE: Combined enrollments in LS 306A and LS 306B may not exceed 3. *Three hours lecture.*

Counseling

LS 306B

3.0 Units

Spelling Strategies

Prerequisite: LS 306A. Spelling strategies for students with learning disabilities emphasizes special spelling techniques, computer-assisted instruction, and assistive-device instruction to help the student compensate for specific spelling disabilities impacting his/her college courses. 306B will continue with additional morphograph analysis, new rule applications, and concentration on compensatory strategies, greater emphasis on written application. This is a Pass/No pass only course. Repeatable 1 time NOTE: Combined enrollments in LS 306A and LS 306B may not exceed 3. *Three hours lecture.*

LS 307

3.0 Units

Reading for Life Skills

Prerequisite: Permission of Disability Services Counselor to help the student make a match between this specialized disability course content and methodology and the individual's needs and expected. *Course Advisory: Primarily for Students with Disabilities.* This reading course is written specifically for basic level readers to address their need to understand the printed material they encounter in everyday situations. The reading involves practical life skills materials such as the newspaper, job applications, work place, supermarket, restaurant, department store, directories and guides, personal health, nutrition, and grooming, bills, and much more. This is a pass / no-pass only course. Repeatable 1 time. *Three hours lecture.*

LS 308

3.0 Units

Math for Life Skills

Prerequisite: Permission of Disability Services Counselor to help the student make a match between this specialized disability course content and methodology and the individual's needs and expected learning outcomes. *Course Advisory: Primarily for Students with Disabilities.* This course will teach students the ability to solve math problems from everyday life situations. Students will decide to apply either addition, subtraction, multiplication, or division to everyday life situations. They will also learn the use of decimals, percents, and fractions in practical applications. The use of the calculator will be taught as an additional tool for life skills math. This course is not meant to prepare students for advancement to higher level math courses at the college. This is a pass / no pass only course. Repeatable 1 time. *Three hours lecture.*

LS 312

1.0 Unit

Computer Tools For Accessibility

Course Advisories: SCC minimum English and math standards and concurrent enrollment in a non-Learning Skills course. Designed especially for the student with cognitive disabilities offering a variety of problem-solving solutions that include fundamental processing routines, academic skills solutions and productivity solutions. Students learn to be more successful in other college courses by integrating computers, software, and assignment requirements. This is a Pass/No pass only course. May be repeated to a maximum of 3 units, including initial enrollment. *One hour lecture, one hour activity, and one hour lab.*

LS 313

1.0 Unit

Assistive Computer Technology I

Course Advisories: SCC minimum English and math standards. A course for disabled students wishing to learn how to use assistive computer programs and hardware in academic and employment environments. Students will master the procedures for a configuration of assistive devices designed to overcome the limitations of their particular disabilities. May be repeated to a maximum of 6 units, including initial enrollment. *Two hours lecture, two hours activity* (8 week course).

LS 315

1.0 Unit

Assistive Computer Technology II

Prerequisite: LS 313. Course Advisories: SCC minimum English and math standards. The second of a two course sequence for disabled students wishing to learn how to use assistive computer programs and hardware in academic and employment environments. Students will master the procedures for a configuration of assistive devices designed to overcome the limitations of their particular disabilities. May be repeated to a maximum of 6 units, including initial enrollment. *Two hours lecture, two hours activity* (8 week course).

LS 348B

3.0 Units

Reading for Life Skills

Prerequisite: Permission of Disability Services Counselor to help the student make a match between this specialized disability course content and methodology and the individual's needs and expected. *Course Advisory: Primarily for Students with Disabilities.* This reading course is written specifically for basic level readers to address their need to understand the printed material they encounter in everyday situations. The reading involves practical life skills materials such as the newspaper, job applications, work place, supermarket, restaurant, department store, directories and guides, personal health, nutrition, and grooming, bills, and much more. This is a pass / no pass only course. *Three hours lecture.*

Counseling

LS 348D

1.0 Unit

Tutoring

Adaptive Basic Computer Skills

Course Advisory: Primarily for Students with Disabilities.

A basic skills computer course primarily for students with disabilities. Students will learn disability-specific assistive computer technology and learn basic computer operations for everyday life. This is a Pass/No Pass course. *One lecture hour and two lab hours.*

LS 350

3.5 Units

Learning Skills Assessment

Course Advisory: Eligible for ENGL 305. This course is designed to help students know their academic strengths and weaknesses, help students discover their study and learning strategy style, and if necessary individually assess for a Learning Disability. Through reading, class activities, surveys, questionnaires, and assessment measures the student develops strategies that lead to proactive skills that help them become a more successful college student. *Three hours lecture; two hours by arrangement.*

LS 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. Announcements of Special Topics courses appear in the Schedule of Classes.

TUTR 050

.5 Unit

Tutoring Practicum

Prerequisites: Completion with a grade of 'B' or better 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

Supervised Tutoring

Prerequisites: 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. Repeatable 6 times. This is an open entry/open exit course. *One-half to three hours weekly 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 34 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 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
ECTN 122 Computer Network+ Technology	4
ECTN 124 Computer Security+ Technology	4
ECTN 126 A+ Computer Hardware Technology	4
ECTN 128 A+ Computer Operating Systems Technology	4
CIS 172 Computer Forensics: Evidence Recovery	1.5
<i>or</i>	
ECTN 172 Computer Forensics: Evidence Recovery	1.5
CIS 173 Computer Forensics Investigations	3
<i>or</i>	
ECTN 173 Computer Forensics Investigations	3
CIS 174 Computer Forensics: Operating Systems Internals	3
<i>or</i>	
ECTN 174 Computer Forensics: Operating Systems Internals	3
LR 011 Internet Explored! Advanced Information Competency	1.5
Total Units	34

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 090 Occupational Work Experience
OCED 091 General Work Experience
OT 054 Beginning Keyboarding
OT 055 Intermediate Keyboarding/Word Processing
SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict
SPAN 001 First Semester Spanish
SPAN 002 Second Semester Spanish

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 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 continuation 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

Electives selected from the following list. Units

Select six (6) units from the following:

CJ 057 Criminal Justice Career Development.	3
CJ 060 Probation and Parole	3
CJ 061 State and Local Correctional Institutions	3
CJ 062 Legal Aspects of Correction	3
CJ 091 Vocational Work Experience – Corrections	1-3

Recommended Electives

CIS 002
<i>and</i>
CIS 050 Microcomputer Applications
COUN 062 Helping Skills: Creating Alliances & Facilitating Change
COUN 063 Field Work
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 090 Occupational Work Experience
OCED 091 General Work Experience
OT 054 Beginning Keyboarding
OT 055 Intermediate Keyboarding/Word Processing
SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict
SOCS 030 Peace, Non Violence and Conflict Resolution
SPCH 010 Interpersonal Communication
SPAN 001 First Semester Spanish
SPAN 002 Second Semester Spanish

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 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

Electives selected from the following list	Units
Select six (6) units from the following:	
CJ 050 Substantive Law	3
CJ 054 Patrol Procedures	3
CJ 055 Traffic Control	3
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 002
and
CIS 050 Microcomputer Applications
ENGL 004 Critical Thinking and Composition: Language in Context
ENGL 051 Technical Writing
OCED 090 Occupational Work Experience
OCED 091 General Work Experience
OT 054 Beginning Keyboarding
OT 055 Intermediate Keyboarding/Word Processing
SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict
SPAN 001 First Semester Spanish
SPAN 002 Second Semester Spanish

Criminal Justice

CJ 001 Introduction to Criminal Justice <i>Course Advisories: SCC minimum English and math standards.</i> Introduction to Criminal Justice presents an overview of informal and formal means of social control. It is a study of the history, evolution, philosophy, structure, operation and role of the criminal justice system and its component sub-systems (law enforcement, courts, corrections). It also explores the history of the U.S. Constitution and application of constitutional principles; theories of crime causation and criminal behavior. Another component of this course is the study of professional ethics, education and training for professionals in the criminal justice system. Required for all Criminal Justice majors. <i>Three hours lecture.</i>	3.0 Units	CJ 052 Investigative Report Writing <i>Course Advisory: Eligibility for ENGL 001; CJ 001; CJ 002; CJ 051.</i> 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. <i>Three hours lecture.</i>	3.0 Units
CJ 002 Concepts of Criminal Law <i>Course Advisories: SCC minimum English and math standards; CJ 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units	CJ 053 Legal Aspects of Evidence <i>Course Advisories: SCC minimum English and math standards; CJ 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units
CJ 011 Community Relations <i>Course Advisories: SCC minimum English and math standards.</i> An exploration of actual and perceived special roles of criminal justice agencies and individual practitioners; interrelationships and role expectations of criminal justice practitioners and various individuals and groups; propaganda and pressure groups. Principal emphasis will be placed upon the development of the professional image of the criminal justice system and upon development of positive relationships between members of the criminal justice system and the public. <i>Three hours lecture.</i>	3.0 Units	CJ 054 Patrol Procedures <i>Course Advisories: SCC minimum English and math standards; CJ 001.</i> Presents the responsibilities, techniques and methods of modern police patrol. <i>Three hours lecture.</i>	3.0 Units
CJ 050 Substantive Law <i>Course Advisories: CJ 002; SCC minimum English and math standards.</i> A detailed study of statutory law and corollary case law commonly used by criminal justice practitioners, with emphasis on California Penal, Welfare and Institutions, Vehicle, and Business and Professions Codes. <i>Three hours lecture.</i>	3.0 Units	CJ 055 Traffic Control <i>Course Advisories: SCC minimum English and math standards; CJ 001.</i> A study of traffic law enforcement, regulations and control; fundamentals of traffic accident investigation, and an overview of the California Vehicle Code. <i>Three hours lecture.</i>	3.0 Units
CJ 051 Criminal Investigations <i>Course Advisories: SCC minimum English and math standards; CJ 001.</i> Fundamentals of investigation, crime scene search and recording, collection and preservation of evidence, scientific aid; interviews and interrogation, follow-up and case preparation. <i>Three hours lecture.</i>	3.0 Units	CJ 056 Juvenile Procedures <i>Course Advisories: SCC minimum English and math standards; CRIMJ 1.</i> Presents the organization, function, and jurisdiction of juvenile agencies; the processing and detention of juveniles; juvenile case disposition; juvenile statutes and court procedures. <i>Three hours lecture.</i>	3.0 Units
		CJ 057 Criminal Justice Career Development <i>Course Advisories: SCC minimum English and math standards; CJ 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units

Criminal Justice

CJ 058 3.0 Units

Fundamentals of Crime and Delinquency

Course Advisories: SCC minimum English and math standards; CJ 001. 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 Advisories: SCC minimum English and math standards; CJ 001. 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 Advisories: SCC minimum English and math standards; CJ 001; CJ 058. 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 061 3.0 Units

State and Local Correctional Institutions

Course Advisories: SCC minimum English standards; CJ 058. Provides theoretical and practical methods and solutions for achieving effectiveness in the various leadership correctional institutional programs. *Three hours lecture.*

CJ 062 3.0 Units

Legal Aspects of Correction

Course Advisories: SCC minimum English and math standards; CJ 058. 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 Advisories: SCC minimum English and math standards; CJ 001. 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.*

CJ 090 1.0 to 3.0 Units

Vocational Work Experience: Law Enforcement

Course Advisories: 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 credit/no credit only course. May be repeated to a maximum of 12 units, including initial enrollment. NOTE: Combined units for all work experience courses shall not exceed 12. *One hour lecture and five to twenty hours weekly 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.

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 credit/no credit only course. May be repeated to a maximum of 12 units, including initial enrollment. NOTE: Combined units for all work experience courses shall not exceed 12. *One hour lecture and five to twenty hours weekly 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.

CJ 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. Announcements of Special Topics courses appear in the Schedule of Classes.

Drafting Technician

Program Description

This program is designed to provide students with entry level skills in the fields of mechanical, electrical, civil and architectural drafting.

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 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 CAD software programs.

Required Courses Units

DRFT 045 Introduction to Computer-Aided Drafting (CAD)	3
DRFT 046 Advanced CAD	3
DRFT 050 Basic Drafting	3
DRFT 055 Mechanical Drafting - Level I	3
DRFT 060 Architectural Drafting I	3
DRFT 075 Electronic Drafting	3
DRFT 080 Civil Drafting I	3
IT 140 Industrial Materials	3
IT 151 Vocational Mathematics	3
DRFT 125 Solid Modeling with Solidworks	3
Total Units	30

Recommended Electives

DRFT 056 Descriptive Geometry
DRFT 057 Mechanical Drafting - Level II
DRFT 065 Architectural Drafting II
DRFT 070 Technical Illustration and Design
DRFT 079 Blueprint Reading
DRFT 085 Civil Drafting II
DRFT 092 Special Problems
DRFT 130 Advanced Printed Circuit Board Design
DRFT 135 Structural & Detail Drafting
DRFT 140 Surveying
INTD 052 Drafting and Perspective Drawing for Interiors
IT 150 Industrial Processes
OCED 090 Occupational Work Experience
OCED 091 General Work Experience
HORT 030 Landscape Design I

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.

Drafting Technician

Survey Technician/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 in Science Degree

A Certificate of Achievement can be obtained upon completion of 27 core requirement units. An Associate of Science degree may be obtained by completing 27 core units in addition to 15 units of restricted elective courses and 21 units of General Education.

Program Outcomes

Students who complete the 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 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 050 Basic Drafting	3
DRFT 060 Architectural Drafting I	3
GEOL 010 Introduction to Geographic Information Systems	3
<i>or</i>	
GEOG 010 Introduction to Geographic Information Systems	3
DRFT 080 Civil Drafting I	3
DRFT 085 Civil Drafting II	3
DRFT 140 Surveying	3
IT 151 Vocational Mathematics	3
Total Units	27

Electives for Associate of Science degree

DRFT 056 Descriptive Geometry
DRFT 065 Architectural Drafting II
DRFT 070 Technical Illustration and Design
DRFT 079 Blueprint Reading
DRFT 092 Special Problems
IT 150 Industrial Processes
GEOL 001 Physical Geology
GEOL 002 Geology Laboratory
GEOL 005 Geology of California
GEOG 060 Advanced Geographic Information Systems
GEOG 061 Introduction to Global Positioning Systems
GEOG 062 Advanced Global Positioning Systems

*Course advisory for all courses: Solano Community College minimum English and Math Standards.

*Drafting 050 should be taken in the first semester of study.

^IT 151 Vocational Math.

Drafting Technician

DRFT 045 Introduction to Computer-Aided Drafting (CAD) <i>Course Advisory: SCC minimum English and math standards; DRFT 050; drafting experience helpful.</i> Designed to introduce the drafting student to CAD technology and terminology. The student shall complete a series of related drawing problems using a CAD work station. Repeatable 1 time. <i>Two hours lecture, four hours lab.</i>	3.0 Units	DRFT 050 Basic Drafting <i>Course Advisories: SCC minimum English and math standards.</i> Presents the fundamentals of drafting, including the use of instruments, lettering, freehand sketching, orthographic projection, dimensioning and sectioning. Recommended for non-majors and drafting majors. <i>Two hours lecture, four hours lab.</i>	3.0 Units
DRFT 045A Introduction to Computer-Aided Drafting (CAD) - Part 1 <i>Course Advisory: DRFT 050 or drafting experience helpful; SCC minimum English and math standards.</i> Designed to introduce the drafting student to CAD technology and terminology. The student shall complete a series of related drawing problems using a CAD work station. Repeatable 1 time. <i>One hour lecture, two hours lab.</i>	1.5 Units	DRFT 055 Mechanical Drafting Level I <i>Prerequisite: DRFT 050 and DRFT 045. Course Advisories: SCC minimum English and math standards.</i> Emphasizes sectioning, pictorials, threads, fasteners, springs, tolerancing, measurement, and working drawings. <i>Two hours lecture, four hours lab.</i>	3.0 Units
DRFT 045B Introduction to Computer-Aided Drafting (CAD) - Part 2 <i>Prerequisite: DRFT 045A. Course Advisory: DRFT 050 or drafting experience helpful. SCC minimum English and math standards.</i> Designed to introduce the drafting student to CAD technology and terminology. The student shall complete a series of related drawing problems using a CAD work station. Repeatable 1 time. <i>One hour lecture, two hours lab.</i>	1.5 Units	DRFT 056 Descriptive Geometry <i>Prerequisites: DRFT 050; IT 151; DRFT 045. Course Advisories: SCC minimum English and math standards.</i> Presents fundamental principles of descriptive geometry and their application to the solution of three dimensional problems. Included are true lengths and shapes; bearing and slopes; point, line and shape problems, advanced auxiliaries, revolutions, intersections and developments. <i>Two hours lecture, four hours lab.</i>	3.0 Units
DRFT 046 Advanced Computer Aided Drafting (CAD) <i>Prerequisite: DRFT 045 and DRFT 050. Course Advisories: SCC minimum English and math standards.</i> Designed to develop advanced proficiency in CAD. Covers symbol libraries, isometrics, external references (XREFS), 3-D drawing, basic solid modeling, tables and customization techniques. Repeatable 1 time. <i>Two hours lecture, four hours lab.</i>	3.0 Units	DRFT 057 Mechanical Drafting Level II <i>Prerequisites: DRFT 055 with a grade of 'C' or better; IT 151 (may be taken concurrently). Course Advisories: SCC minimum English and math standards.</i> A continuation of Drafting 55, with special emphasis on geometric tolerancing, gears, cams, electro-mechanical packaging, and advanced working drawings. <i>Two hours lecture, four hours lab.</i>	3.0 Units
DRFT 046A Advanced CAD—Part 1 <i>Prerequisites: DRFT 045 (or DRFT 045B) and DRFT 050. Course Advisories: SCC minimum English and math standards.</i> Designed to develop advanced proficiency in CAD. Covers symbol libraries, isometrics, external references (XREFS), 3-D drawing, basic solid modeling, tables and customization techniques. Repeatable 1 time. <i>One hour lecture, two hours lab.</i>	1.5 Units	DRFT 060 Architectural Drafting I <i>Prerequisites: DRFT 050 and DRFT 045. Course Advisories: SCC minimum English and math standards.</i> Practice in drawing a complete set of plans for a single family dwelling in accordance with local building regulations. Includes an introductory unit on heat loss computations. Recommended for non-majors and drafting majors. <i>Two hours lecture, four hours lab.</i>	3.0 Units
DRFT 046B Advanced CAD - Part 2 <i>Prerequisite: DRFT 046A. Course Advisories: SCC minimum English and math standards.</i> Designed to develop advanced proficiency in CAD. Covers symbol libraries, isometrics, external references (XREFS), 3-D drawing, basic solid modeling, tables and customization techniques. Repeatable: 1 time. <i>One hour lecture, two hours lab.</i>	1.5 Units	DRFT 065 Architectural Drafting II <i>Prerequisites: DRFT 060 with a grade of 'C' or better; IT 151 (IT 151 may be taken concurrently). Course Advisories: SCC minimum English and math standards.</i> Introduction to the trade terms, detailing and basic construction practices related to light commercial design and delineation. <i>Two hours lecture, four hours lab.</i>	3.0 Units

Drafting Technician

DRFT 070 Technical Illustration and Design <i>Prerequisite: DRFT 050; DRFT 045. Course Advisory: SCC minimum English and math standards.</i> Designed for advanced drafting students to develop the basic tools, skills and concepts required in the field of engineering illustration. Includes freehand sketching and pencil shading. CAD drawings include isometric, perspective assembly, photo-tracing and cut-away drawings. <i>Two hours lecture, four hours lab.</i>	3.0 Units	DRFT 092 Special Problems <i>Prerequisite: DRFT 050.</i> Individualized projects for advanced students who demonstrate competency to carry out individual work. Repeatable 3 times. <i>Three to nine hours weekly by arrangement.</i>	1.0 to 3.0 Units
DRFT 075 Electronic Drafting <i>Prerequisites: DRFT 050 and DRFT 045. Course Advisory: SCC minimum English and math standards.</i> 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, and basic printed circuit board design. <i>Two hours lecture, four hours lab.</i>	3.0 Units	DRFT 125 Solid Modeling <i>Course Advisory: SCC minimum English and math standards; DRFT 050 or knowledge of drafting concepts.</i> This course is designed to teach the basic concepts and skills necessary to create, view, and manipulate objects in three dimensional space using Solidworks software. Repeatable 1 time. <i>Two hours lecture, four hours lab.</i>	3.0 Units
DRFT 079 Blueprint Reading <i>Course Advisories: SCC minimum English and math standards.</i> Designed to provide understanding and interpretation of a variety of blueprints. Emphasizes the ability to recognize and identify modern industrial blueprints and architectural blueprints. Includes basic development of freehand sketching abilities. <i>Three hour lecture, one hour lab.</i>	3.0 Units	DRFT 130 Electronic Drafting With CAD <i>Prerequisite: DRFT 075. Course Advisories: SCC minimum English and math standards.</i> 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. <i>Two hours lecture, four hours lab.</i>	3.0 Units
DRFT 080 Civil Drafting I <i>Prerequisites: DRAFT 50 and DRAFT 45. Course Advisory: SCC minimum English and math standards; IT 151 recommended.</i> Introductory course in civil drawing with emphasis on land division, breakdown of survey notes, office procedures and related math computations. Included is an introductory unit on modern CAD applications, as applied to preliminary and final maps. <i>Two hours lecture, four hours lab.</i>	3.0 Units	DRFT 135 Structural and Detail Drafting <i>Course Advisories: SCC minimum English and math standards.</i> Provides a basic introduction to structural detailing. Covers basic terminology, shapes, types of connections, types of views, scaling and proportion, bills of materials and lettering, plus some detailing problems. <i>Five hours lecture, two hours weekly by arrangement</i> (3 week course).	1.0 Unit
DRFT 085 Civil Drafting II <i>Prerequisites: DRFT 080; IT 151. Course Advisory: SCC minimum English and math standards.</i> 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 earth-work calculations. <i>Two hours lecture, four hours lab.</i>	3.0 Units	DRFT 140 Surveying <i>Prerequisites: DRFT 080 and IT 151. Course Advisory: SCC minimum English and math standards.</i> Presents the fundamentals of plane surveying with practice in the field using tape, levels, transit and theodolite. <i>Two hours lecture and four hours lab.</i>	3.0 Units
		DRFT 150 Computer Graphics for Non-Drafters <i>Course Advisory: SCC minimum English standard.</i> Provides the opportunity for the non-drafting major to explore the creation of graphic images using the PC as a tool. <i>One hour lecture, three hours lab</i> (8 week course).	1.0 Unit

DRFT 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. Announcements of Special Topics courses appear in the Schedule of Classes.

Early Childhood Education

(For Dramatic Arts-See "Theatre Arts")

Program Description

This program prepares students to meet the new and stringent demands of today's child care centers, preschool programs, and nursery schools. It offers a comprehensive study of the development of the young child as well as opportunities to learn techniques to enhance the emotional, physical, social, and cognitive needs of the child.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon successful completion of the 32-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 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 Certificate of Achievement/Associate Degree will be able to:

1. Child Development Theory, Research, Current Trends
2. Reflective Practice, Self Awareness
3. Contextual Development: Family, Culture, Community & Meaningful Relationships.
4. Curriculum Development based on Observations and Assessment.

Required Courses

Students should enroll in HUDV 038 during their first semester in the program. Students will spend their first semester of ECE Practicum I (ECE 065) assigned to the Solano College Children's Program or placed off campus with an accepted mentor teacher. A second semester may be spent either on campus (ECE 066 or 067) or off campus (ECE 067). Off campus placements will be made with an approved mentor teacher. Prior to the first week of enrollment in ECE 065 or 066, students will be required to be fingerprinted at District expense.

Required Courses	Units
ECE 062 Introduction to Early Childhood Education	3
ECE 063 Early Childhood Education Theory and Practice	3
ECE 065 Early Childhood Education Practicum I	4
ECE 066 Early Childhood Education Practicum II	4
<i>or</i>	
ECE 067 Early Childhood Education Field Practice	4
ECE 070 Science for Early Childhood Education	3
ECE 071 Language and Literature for ECE	3
ECE 072 Art for Early Childhood	3
ECE 073 Music for Early Childhood	3
HUDV 038 Child Development	3
HUDV 050 Child, Family and Community	3
Total Units	32

Recommended Electives

ECE 079 Adult Supervision: The Mentor Teacher
ECE 099 Early Childhood Education Honors
ECE 101 Sensitive & Critical Topics in ECE
ECE 102 Curriculum Development
HUDV 040 Family Relationships
HUDV 053 Teaching in a Diverse Society
NUTR 010 Nutrition
NUTR 051 Nutrition Basics for Children
NUTR 052 Child Nutrition for Early Childhood Education
OCED 090 Occupational Work Experience
OCED 091 General Work Experience
PSYC 001 Introduction to Psychology
SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict
SOC 001 Introduction to Sociology

Early Childhood Education

ECE 050 Violence and its Impact on Children and Their Families <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three hours lecture.</i>	3.0 Units	ECE 064 Observation and Assessment <i>Course Advisory: HUDV 038; Minimum English and Math standards.</i> This course focuses on the appropriate use of assessment and observation strategies to document children's development, growth, play and learning. Recording strategies, rating systems, portfolios, and multiple assessments provide tools for professionals to work with families to promote children's success. <i>Three hours lecture.</i>	3.0 Units
ECE 051 Intro/Violence Intervention & Strategies for Child/Families <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three hours lecture.</i>	3.0 Units	ECE 065 Early Childhood Education Practicum I <i>Prerequisites: ECE 062 and ECE 063 (ECE 063 may be taken concurrently). Course Advisories: SCC minimum English and Math standard.</i> Supervised laboratory experience with infants through preschool children in the Solano College Children's Programs or off-campus placement with a mentor teacher selected by the SCC Mentor Selection Committee for nine hours per week and attendance at a one-hour weekly seminar which emphasizes child observation, guidance techniques, reflective practice, and relationship of theories to practices. 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. <i>One hour lecture, nine hours by arrangement.</i>	4.0 Units
ECE 055 Key Concepts in Early Childhood Education <i>Course Advisory: SCC minimum English standard.</i> Focuses on those aspects of young children's normal behavior and needs which have the greatest significance for adults studying children in a preschool setting. May be repeated to a maximum of 1 unit, including initial enrollment. One-half or <i>One hour lecture.</i>	.5 or 1.0 Units	ECE 066 Early Childhood Education Practicum II <i>Prerequisites: ECE 065. Course Advisories: SCC minimum English and Math standard.</i> Laboratory practicum emphasizing curriculum activities, comprehensive case studies, methods of child observation, and relationships of theories to practices. Students may be placed in the Solano College Children's Programs on campus or with a Mentor teacher (selected by the SCC/ECE Mentor teacher selection committee) off campus. During the first week of enrollment student will be required to be fingerprinted and have a TB test at the District's expense. <i>One hour lecture, nine hours by arrangement.</i>	4.0 Units
ECE 062 Introduction to Early Childhood Education <i>Prerequisite: HUDV 038 (may be taken concurrently). Course Advisories: SCC minimum English and math standards.</i> An introduction to teaching at the preschool level including: history, philosophy, techniques of guidance, teaching techniques and skills, schedules and programming routines, provision of a safe environment, the function and stages of play, and an overview of important developmental processes. <i>Three hours lecture.</i>	3.0 Units	ECE 067 Early Childhood Education Field Practice <i>Prerequisites: ECE 065. Course Advisories: SCC minimum English and math standards.</i> Work experience at an approved early childhood job site under the direct supervision of a fully qualified ECE teacher (preferably under the supervision of one of the SCC selected Mentor teachers), and attendance at a one-hour weekly seminar on campus which emphasizes child observation, curriculum planning, and relationships of theories to practices. <i>One hour lecture (related seminar), twenty hours weekly by arrangement (work experience).</i>	4.0 Units
ECE 063 Early Childhood Education Theory and Practice <i>Prerequisite: ECE 062 and HUDV 038. Course Advisories: SCC minimum English and math standards.</i> Continues the introduction to early childhood teaching begun in ECE 062 with the focus on the content of the early childhood curriculum areas of art, music, science, math, dramatic play, motor development and language and academic skills. Students practice techniques of curriculum planning by preparing lesson plans in each of these areas. <i>Three hours lecture.</i>	3.0 Units		

Early Childhood Education

- ECE 070** **3.0 Units**
Science for Early Childhood Education
Prerequisite: ECE 062; HUDV 038 (may be taken concurrently). Course Advisories: SCC minimum English and math standards. 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. Field trip may be required. *Three hours lecture.*
- ECE 071** **3.0 Units**
Language and Literature for ECE
Prerequisites: HUDV 038 (may be taken concurrently). Course Advisory: SCC minimum English standard. 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. *Three hours lecture.*
- ECE 072** **3.0 Units**
Art for Early Childhood
Course Advisories: SCC minimum English and math standards. 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. *Three hours lecture.*
- ECE 073** **3.0 Units**
Music for Early Childhood
Course Advisories: ECE 062; SCC minimum English and Math standards. 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. Field trip may be required. *Three hours lecture.*
- ECE 075** **3.0 Units**
Care of Infants and Toddlers: Social-Emotional Foundations
Course Advisories: Eligibility for ENGL 001 and SCC minimum Math standard. 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. *Three hours lecture.*
- ECE 076** **3.0 Units**
Care of Infants and Toddlers: Curriculum and Environments
Course Advisory: SCC minimum English and Math standards. 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. *Three hours lecture.*
- ECE 079** **2.0 Units**
Adult Supervision: The Mentor Teacher
Prerequisite: "C" or better in HUDV 038 & 050, ECE 062. Course Advisory: Minimum SCC Math standard and eligibility for ENGL 001. Three years teaching experience and moving into a supervisory position. 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. *Two and three-quarters hours (12 week course).*
- ECE 080** **3.0 Units**
Early Childhood Administration
Prerequisites: ECE 062 and HUDV 038. Course Advisory: Eligibility for ENGE 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. *Three hours lecture.*
- ECE 081** **3.0 Units**
Early Childhood Staff Supervision
Prerequisites: ECE 062; HUDV 038 and HUDV 050. Course Advisory: Completion of ENGL 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. *Three hours lecture.*

Early Childhood Education

- ECE 085** .5 Unit
Educational Games
Course Advisory: SCC minimum English standard. An intensive introduction to planning and producing educational learning games for preschool-aged children suited for use in home, day care, and/or preschool settings. Successful completion requires attendance, participation and the completion of a minimum of two (2) cognitive games. This is a credit/no-credit only course. Repeatable 3 times. *One hour lecture.*
- ECE 099** 1.0 to 3.0 Units
ECE Honors
Prerequisites: 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 Division Dean based on instructor availability. *Course Advisory: SCC minimum English standard.* 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. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement.*
- ECE 101** .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. Repeatable 3 times. *Eight hours lecture total for semester.*
- ECE 102** .5 Unit
Curriculum Development
Course Advisory: SCC minimum English and Math 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. Repeatable 3 times. *Eight hours lecture total for semester.*
- ECE 105** .5 Unit
Parenting in a Stressful World
Advisory: 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. Repeatable 3 times. *Eight hours lecture total for semester.*
- ECE 200** .5 Unit
ECE Mentor Teacher Seminar
Prerequisite: Selection as a Mentor Teacher with the California Mentor Teacher Program. *Course Advisories: SCC English and math standards.* A monthly seminar for Early Childhood Mentor Teachers to explore issues related to their roles as supervisors or early childhood student teachers. Seminar content will be individualized to meet the needs of each mentor. Participation and attendance in the monthly meeting is mandatory. *Eight hours lecture total for semester.*
- ECE 501** Non-Credit
Early Childhood Education Children's Programs
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. Repeatable 3 times. *Sixteen hours by arrangement total for the semester.*
- ECE 550** Non-Credit
Positive Parenting Practices
Focuses on those aspects of young children's normal behavior and needs which have the greatest significance for parents and others interested in behavior of young children. *Three hours lecture* (8 week course).
- ECE 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. Announcements of Special Topics courses appear in the Schedule of Classes.

Economics

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.

The economic courses provide the lower-division requirements for students majoring in economics, business, computer science, and engineering. These courses also provide students majoring in other fields with an understanding of economic principles and a familiarity with the economic institutions that affect our lives.

Associate Degree

Not offered in this discipline

ECON 001 **3.0 Units**
Principles Of Economics (Macroeconomics)
Course Advisories: Eligibility for ENGL 001; SCC minimum math standard. Introductory course dealing with the nature and scope of economics, supply and demand analysis, national income accounting, Keynesian models, money and banking, fiscal and monetary policy, stabilization methods, and current problems and issues. Emphasis on Macroeconomics. Online work may be required. *Three hours lecture.*

ECON 002 **3.0 Units**
Principles Of Economics (Microeconomics)
Course Advisories: Eligibility for ENGL 001; SCC minimum math standard. Introductory course dealing with the price and output determination, cost of production, market structures, anti-trust regulations, and international trade. Emphasis on Microeconomics. Online work may be required. *Three hours lecture.*

ECON 010 **3.0 Units**
Global Economics
Course Advisory: SCC minimum Math standard and Eligibility for ENGL 001. 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 lecture hours.*

Electronics

(For Education-See "Liberal Arts")

Program Description

Designed to prepare the student for employment in industry by providing an extensive background in electronics theory with laboratory application. Employment would be at the level of entry-level technologist/technician or engineering assistant.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained by completing the 35-unit major. The Associate in Science Degree can be obtained by completing a total of 60 units, including the 35-unit 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

This information is not available at the time of printing. Please check online for current information as it is available.

Required Courses

NOTE: Not all courses are offered every semester, and the sequence of courses listed below is recommended, not required.

	Units
ECTN 050 DC Electronics Principles	4
ECTN 051 AC Electronics Principles	4
ECTN 052 Semiconductor Devices and Circuits	4
ECTN 053 Communications and Operational Amplifiers	4
ECTN 060 Basic Digital Fundamentals	4
ECTN 061 Digital Systems: Principles and Applications	4
ECTN 140 Mathematics for Electronics	4
ECTN 141 Mathematics for Electronics	4
MT 162 Robotic Manufacturing Systems	3
Total Units	35

Recommended Electives

	Units
DRFT 050 Basic Drafting	3
ECTN 102 Electrical Safety	1 - 3
ECTN 111 Fundamentals of Wire and Cabling	1
ECTN 112 Fundamentals of Fiber Optics	1
ECTN 113 Fundamentals of Wireless Communication	1
ECTN 171 Security and Surveillance Techniques	4
ENGL 051 Technical Writing	3
IT 140 Industrial Materials	3
OCEC 090 Occupational Work Experience	1 - 8
OCEC 091 General Work Experience	1 - 6

Advanced standing may be granted for ECTN 050 and/or ECTN 051 or ECTN 060 by achieving a satisfactory score on a written test. The test may not be retaken.

Students may substitute:

ECTN 132 and 133 for ECTN 140
ECTN 134 and 135 for ECTN 141

Computer Investigations Job-Direct Certificate

The required courses must be completed with a grade "C" or better.

Required Courses	Units
CIS 001 Introduction to Computer Science	3
CJ 051 Criminal Investigation	3
ECTN 172 Computer Forensics: Evidence Recovery	1.5
ECTN 173 Computer Forensics Investigations	3
ECTN 174 Computer Forensics: Operating Systems Internals	3
Total Units	13.5

Computer Information Security Job-Direct Certificate

The required courses must be completed with a grade of "C" or better.

Required Courses	Units
ECTN 122 Computer Network+ Technology	4
ECTN 124 Computer Security+ Technology	4
ECTN 126 A+ Computer Hardware Technology	4
ECTN 128 A+ Computer Operating Systems Technology	4
Total Units	16

Electronics

**Electronic Security and Surveillance Technician
Job-Direct Certificate**
The required courses must be completed with a grade of
"C" or better.

Required Courses	Units
CJ 001 Introduction to Criminal Justice	3
ECTN 111 Fundamentals of Wire and Cabling	1
ECTN 112 Fundamentals of Fiber Optics	1
ECTN 113 Fundamentals of Wireless Communication	1
ECTN 171 Security and Surveillance Techniques	4
Total Units	10

Home Technology Integrator Job-Direct Certificate
The required courses must be completed with a grade
"C" or better.

Required Courses	Units
IT 160 Electrical Fundamentals	3
ECTN 111 Fundamentals of Wire and Cabling	1
ECTN 112 Fundamentals of Fiber Optics	1
ECTN 113 Fundamentals of Wireless Communication	1
ECTN 175 Home Technology Integration Techniques	4
Total Units	10

ECTN 050 **4.0 Units**
DC Electronic Principles
Prerequisites: ECTN 132 or ECTN 140 (either may be taken concurrently). Course Advisory: SCC minimum English standard. Presents the principles of direct current and passive devices, and introduces active devices. Mathematical analysis and laboratory construction of circuits are required. *Three hours lecture, three hours lab.*

ECTN 051 **4.0 Units**
AC Electronic Principles
Prerequisite: ECTN 050 and ECTN 133 or ECTN 140 (all may be taken concurrently). Course Advisory: SCC minimum English and math standards. Presents the principles of alternating current circuits and active devices. Mathematical analysis and laboratory construction of circuits are required. *Three hours lecture, three hours lab.*

ECTN 052 **4.0 Units**
Semiconductor Devices and Circuits
Prerequisites: ECTN 051 and ECTN 134 or ECTN 141 (ECTN 134 or 141 may be taken concurrently). Course Advisory: SCC minimum English standard. Presents the principles of discrete semiconductor devices and circuits. Mathematical analysis and laboratory constructions of circuits required. *Three hours lecture, three hours lab.*

ECTN 053 **4.0 Units**
Communications and Operational Amplifiers
Prerequisite: ECTN 052 and ECTN 135 or ECTN 141 (ECTN 135 or 141 may be taken concurrently). Course Advisory: SCC minimum English standard. Presents the principles of operational amplifier circuits, discrete and integrated communications circuits, and AM/FM transmitters and receivers. Mathematical analysis and laboratory construction are required. *Three hours lecture, three hours lab.*

ECTN 060 **4.0 Units**
Basic Digital Fundamentals
Course Advisories: SCC minimum English and math standards. Presents the principles of digital numbering systems, digital codes, logic gates, and flip-flops; an introductory course in Boolean Algebra and digital electronics. Mathematical analysis and laboratory assignments are required. *Three hours lecture, three hours lab.*

ECTN 061 **4.0 Units**
Digital Systems: Principles and Applications
Prerequisite: ECTN 060 (may be taken concurrently). Course Advisory: SCC minimum English standard. Presents the principles of counter circuits, registers, memories, arithmetic logic, integrated circuits, and digital computer introduction. Mathematical analysis and laboratory assignments are required. *Three hours lecture, three hours lab.*

ECTN 101 **3.0 Units**
Introduction to Electricity and Electronics
Prerequisite: None. NOTE: Not open for credit to students who have taken ECTN 050 or 051. Course Advisories: SCC minimum math and English standards. An introductory study of electrical and electronic technology. Fundamentals of DC and AC circuitry components. Instruments used in the study of basic electronics will be discussed and demonstrated with an emphasis on interpretation of schematic diagrams, breadboarding, and familiarization of electronic components. *Two hours lecture, three hours lab.*

ECTN 102 **1.0 to 3.0 Units**
Electrical Safety
Course Advisories: SCC minimum math and English standards. 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. Repeatable for up to 3 units. *One to Three hours lecture.*

Electronics

ECTN 111 Fundamentals of Wire and Cabling <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>One hour lecture, one hour lab.</i>	1.0 Unit	ECTN 124 Computer Security+ Technology <i>Prerequisite: ECTN 122. Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three hours lecture, three hours lab.</i>	4.0 Units
ECTN 112 Fundamentals of Fiber Optics <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>One hour lecture, one hour lab.</i>	1.0 Unit	ECTN 126 A+ Computer Hardware Technology <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three hours lecture, three hours lab.</i>	4.0 Units
ECTN 113 Fundamentals of Wireless Communication <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>One hour lecture, one hour lab.</i>	1.0 Unit	ECTN 128 A+ Computer Operating Systems Technology <i>Course Advisories: ECTN 126, SCC minimum English and math standards.</i> 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. <i>Three hours lecture, three hours lab.</i>	4.0 Units
ECTN 122 Computer Network+ Technology <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three hours lecture, three hours lab.</i>	4.0 Units	ECTN 132 Mathematics for Electronics <i>Prerequisite: None. NOTE: Not open to students who have completed ECTN 140. Course Advisories: SCC minimum English and math standards.</i> Presents the principles of algebra as it applies to electronics. Frequent homework assignments and written tests are required. <i>Four hours lecture (8 week course).</i>	2.0 Units
		ECTN 133 Mathematics for Electronics <i>Prerequisite: ECTN 132. NOTE: Not open to students who have completed ECTN 140. Course Advisories: SCC minimum English and math standards.</i> Presents the principles of algebra, graphs and determinants as they apply to electronics. Frequent homework assignments and written tests are required. <i>Four hours lecture (8 week course).</i>	2.0 Units

Electronics

ECTN 134 Mathematics for Electronics <i>Prerequisite: ECTN 133 with a grade of 'C' or better. NOTE: Not open to students who have completed ECTN 141. Course Advisories: SCC minimum English and math standards.</i> Presents the principles of trigonometry as it applies to electronics. Frequent homework assignments and written tests are required. <i>Four hours lecture</i> (8 week course).	2.0 Units	ECTN 172 Computer Forensics: Evidence Recovery <i>Course Advisories: SCC minimum English and math standards.</i> 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. (Same as CIS 172) <i>One hour lecture, one and one-half hours lab.</i>	1.5 Units
ECTN 135 Mathematics for Electronics <i>Prerequisite: ECTN 134. NOTE: Not open to students who have completed ECTN 141. Course Advisories: SCC minimum English and math standards.</i> Presents the principles of number systems and Boolean Algebra as they apply to electronics. Frequent homework assignments and written tests are required. <i>Four hours lecture</i> (8 week course).	2.0 Units	ECTN 173 Computer Forensics Investigations <i>Prerequisite: CIS 001. Course Advisory: Eligibility for ENGL 001; SCC minimum math standard.</i> 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. (Same as CIS 173) <i>Two hours lecture, three hours lab.</i>	3.0 Units
ECTN 140 Mathematics for Electronics <i>Prerequisite: None. NOTE: Not open to students who have completed ECTN 132 & 133. Course Advisories: SCC minimum English and math standards.</i> Presents the principles of algebra, graphs and determinants as they apply to electronics. Frequent homework assignments and written tests required. <i>Four hours lecture.</i>	4.0 Units	ECTN 174 Computer Forensics: Operating Systems Internals <i>Prerequisite: ECTN 173 with a grade of 'C' or better or CIS 073 with a grade of 'C' or better. Course Advisories: SCC minimum English and math standards.</i> 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. (Same as CIS 174) <i>Two hours lecture, three hours activity.</i>	3.0 Units
ECTN 141 Mathematics for Electronics <i>Prerequisite: ECTN 140 with a grade of 'C' or better. NOTE: Not open to students who have completed ECTN 134 & 135. Course Advisories: SCC minimum English and math standards.</i> Presents the principles of trigonometry, vectors, and number systems as they apply to electronics. Frequent homework assignments and written tests are required. <i>Four hours lecture.</i>	4.0 Units	ECTN 175 Home Technology Integration Techniques <i>Course Advisory: SCC minimum English and math standards.</i> Presents the principles and practices of installing and maintaining home technology. Student is exposed to home lighting controls, computer networking, home security, home entertainment systems including video, data, and voice, heating ventilation and air conditioning control systems, and home systems integration. <i>Three hours lecture, three hours lab.</i>	4.0 Units
ECTN 158 Microcomputer Maintenance <i>Course Advisory: SCC minimum English standard.</i> Presents data on component parts of computer systems, personal computer configuration for memory expansions, and input/output ports, and proper insertion/removal procedures for circuit boards and components. <i>Three hours lecture, one hour lab</i> (8 week course).	1.5 Units		
ECTN 171 Security and Surveillance Techniques <i>Course Advisory: SCC minimum English and math standards.</i> An overview of the principles and practices of the security and surveillance industry. Students are introduced to the modern methods used to secure physical property through electronic means. Students are introduced to the modern methods of gathering surveillance information through both covert and overt electronic means. Emphasis is placed on legal and ethical practices. <i>Three hours lecture, three hours lab.</i>	4.0 Units		

Electronics

ECTN 176 **4.0 Units**

Digital Home Technology Integration

Course Advisories: SCC minimum English and math standards. Presents the principles and practices of installing and maintaining digital home technology. Student is exposed to home computer networking systems and computer controlled home automation systems, telephone systems as well as voice over Internet protocol, troubleshooting and documentation. Prepares the student for DHTI+ certification. Safety training will be incorporated throughout the course. *Three hours lecture; three hours lab.*

ECTN 190 **1.5 Units**

Home Technology Integration Instructional Strategies

Course advisory: SCC minimum English and math standards. Designed to provide instructors of home technology integration (HTI) courses with the tools necessary to successfully facilitate curriculum, administer learning, and apply instructional materials and equipment to the classroom setting. Emphasis is placed on the synthesis and evaluation of vendor provided HTI student materials and the transfer of demonstration and instruction skills of HTI technology. Students will receive a solid overview of the learning necessary to teach HTI courses as well as experience in a working HTI instructional laboratory. Safety training will be incorporated throughout the course. *One hour lecture, two hours lab.*

ECTN 212 **1.0 Unit**

FCC License Preparation

Course Advisories: ECTN 053, SCC minimum English standard. Computer-aided instruction and laboratory study of Elements I, II, III of the FCC License for Commercial Radio Operators. This is a credit/no credit only course. Repeatable 2 times. *Three hours lab.*

ECTN 213 **1.0 Unit**

FCC License Preparation

Course Advisories: ECTN 53, SCC minimum English standard. Computer-aided instruction and laboratory study of Element IV of the FCC License for Commercial Radio Operators. This is a credit/no credit only course. Repeatable 2 times. *Three hours lab.*

ECTN 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. Announcements of Special Topics courses appear in the Schedule of Classes.

Engineering

(For Emergency Medical Technician I-See "Nursing")

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 Advisories: Eligibility for enrollment in ENGL 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

Corequisite(s): MATH 023 Prerequisite(s): PHYS 007 with a grade "C" or better. Course Advisory: Eligibility for ENGL 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(s): MATH 021, PHYS 006 with a grade of "C" or better. Course Advisory: Eligibility for ENGL 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

Prerequisites: PHYS 006 and CHEM 001. Course Advisory: Eligibility for ENGL 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

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, the latter of which is presented through genre, survey, figure, and thematic courses.

Associate in Arts Degree

The Associate in Arts Degree can be obtained by completing a total of 60 units, including the 18-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 an 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, such as the ability to use texts to generate and analyze arguments, collect, evaluate and synthesize evidence and proofs, and to understand the value of critical thinking and its applications.
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 creative writing potential including 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 3

One genre course from the list below: Units

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

Two survey courses from the list below: Units

ENGL 030 Survey of American Literature I 3
ENGL 031 Survey of American Literature II 3
ENGL 040 Survey of English Literature 3
ENGL 041 Survey of English Literature 3
Total Units 18

Recommended Electives

ENGL 004 Critical Thinking and Composition:
Language in Context
ENGL 005 Advanced Composition
ENGL 006 Creative Writing 1
ENGL 007 Creative Writing II
ENGL 012 Modern Women Writers
ENGL 016 Masterpieces of Western World Literature
ENGL 018 Introduction to Mythology
ENGL 021 * Introduction to Poetry
ENGL 023 * Introduction to the Modern Novel
ENGL 024 * Introduction to the Short Story
ENGL 025 * Introduction to Drama as Literature
ENGL 030 * Survey of American Literature I
ENGL 031 * Survey of American Literature II
ENGL 032 Introduction to Native American Literature
ENGL 033 Survey of African American Literature
in the United States
ENGL 034 African American Novel and Drama
in the United States
ENGL 035 Latina/o Literature
ENGL 036 Multi-Ethnic Literature in America
ENGL 037 Survey of Asian American Literature
ENGL 040 * Survey of English Literature
ENGL 041 * Survey of English Literature
ENGL 044 Introduction to Shakespeare
ENGL 049 English Honors
ENGL 058 Creative Writing: The Literary Magazine
AMST 001 An Interdisciplinary Study of American Culture
AMST 002 An Interdisciplinary Study of American Culture

* If not previously taken for the major

English

- ENGL 001** **3.0 Units**
College Composition
Corequisite: LR 010. *Prerequisite(s):* 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 "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. 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** **3.0 Units**
Critical Thinking and Writing About Literature
Prerequisite: ENGL 001 with a grade of 'C' or better. 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. *Three hours lecture.*
- ENGL 004** **3.0 Units**
Critical Thinking and Composition: Language In Context
Prerequisite: ENGL 001. *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 grade of 'C' or better. 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. An introductory study of creative writing techniques. Students develop self-expression through writing and through individual and class criticism of student work. Frequent writing is required. *Three hours lecture.*
- ENGL 007** **3.0 Units**
Creative Writing II
Prerequisite: ENGL 006. 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. Repeatable 2 times. *Three hours lecture.*
- ENGL 012** **3.0 Units**
Modern Women Writers
Prerequisite: ENGL 001. 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 013** **3.0 Units**
Mystery Fiction
Prerequisite: ENGL 001. Examines the origins of mystery fiction and the great fictional detectives, surveys the various schools of mystery fiction, and explores reader fascination with crime and detection in fiction. *Three hours lecture.*
- ENGL 014** **3.0 Units**
The Bible As Literature
Prerequisite: ENGL 001. 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. 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.*

English

ENGL 018 Introduction to Mythology <i>Prerequisite: ENGL 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units	ENGL 031 Survey of American Literature II <i>Prerequisite: ENGL 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units
ENGL 021 Introduction to Poetry <i>Prerequisite: ENGL 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units	ENGL 032 Introduction to Native American Literature <i>Prerequisite: ENGL 001.</i> A study of representative literature by various Native American writers. Critical papers and written examinations are required. <i>Three hours lecture.</i>	3.0 Units
ENGL 023 Introduction to the Modern Novel <i>Prerequisite: ENGL 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units	ENGL 033 Survey of African American Literature in the United States <i>Prerequisite: ENGL 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units
ENGL 024 Introduction to the Short Story <i>Prerequisite: ENGL 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units	ENGL 034 African American Novel and Drama in the United States <i>Prerequisite: ENGL 001.</i> Through the in-depth study of novels and plays by African American writers, the course examines the sociopolitical effect on the works and the influence this literature has had on mainstream American literature. Critical papers and examinations are required. <i>Three hours lecture.</i>	3.0 Units
ENGL 025 Introduction to Drama as Literature <i>Prerequisite: ENGL 001.</i> 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. (CAN ENGL 22). <i>Three hours lecture.</i>	3.0 Units	ENGL 035 Latina/o Literature <i>Prerequisite: ENGL 001.</i> Study of literature written by Latinas/os, including short stories, novels, poetry and drama. Written examinations and critical papers are required. <i>Three hours lecture.</i>	3.0 Units
ENGL 030 Survey of American Literature I <i>Prerequisite: ENGL 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units	ENGL 036 Multi-Ethnic Literature in America <i>Prerequisite: ENGL 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units
		ENGL 037 Survey of Asian American Literature <i>Prerequisite: ENGL 001.</i> A study of representative selections of poetry, fiction, short drama, and non-fiction by Asian American writers. The course examines the ethnic context, artistic technique, and literary themes. Critical papers and examinations are required. <i>Three hours lecture.</i>	3.0 Units

English

- ENGL 038** **3.0 Units**
The California Experience in Literature
Prerequisite: ENGL 001. 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
Prerequisite: ENGL 001. 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. *Three hours lecture.*
- ENGL 041** **3.0 Units**
Survey of English Literature
Prerequisite: ENGL 001. 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. *Three hours lecture.*
- ENGL 044** **3.0 Units**
Introduction to Shakespeare
Prerequisite: ENGL 001. 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 ENGL 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
Prerequisites: 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 Division 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. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement with instructor and division Dean.*
- ENGL 051** **3.0 Units**
Technical Writing
Prerequisites: 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. 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. Repeatable 1 time. *Three hours lecture.*
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English

- ENGL 064** .5 to 1.5 Units
Writing the Research Paper
Prerequisite: Completion of ENGL 370. Study of the principles and techniques of library research and the writing of the research paper. To earn 1.5 units the student must complete both the research and the writing of an actual paper. May be repeated to a maximum of 1 1/2 units, including initial enrollment. *One to three hours activity.*
- ENGL 087** 1.0 to 2.0 Units
Drama in Performance
Prerequisite: Permission of instructor to confirm opening. Course Advisory: ENGL 1. Introduction to the principles of drama through a study of plays being presented at the Oregon Shakespearean Festival. Repeatable 3 times. A travel study 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. Repeatable 1 time. This is a credit/no credit only course. *Three hours lecture.*
- ENGL 310** .5 to 1.5 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, credit/no credit only course. May be repeated to a maximum of 6 units, including initial enrollment. *Two hours activity weekly per unit.*
- ENGL 348G** 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 is open to all students, regardless of assessment results or past experience with reading and writing. This is a pass / no pass only course. *Three hours lecture.*
- ENGL 350** 3.0 Units
Reading and Writing Skills for ESL Students
Prerequisite(s): 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.
Corequisite(s): This course must be taken together with 1.5 units of the English 350L. Credit for this course will be given only when the requirements of both components have been completed. 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. This is a Pass/No Pass only course. *Three hours lecture.*
- ENGL 350L** 1.5 Units
English 350 Lab
Corequisite(s): ENGL 350. Repeatability: May be repeated once, for a maximum total of 3 units credit. Students who fail the coreq ENGL 350 twice must enroll in ENGL 310 for individualized instruction. 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. This is a pass/no pass course. *Four and one-half hours Lab.*
- ENGL 355** 3.0 Units
Writing and Reading Skills
Prerequisite(s): 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.
Corequisite(s): This course must be taken together with 1.5 units of 355L. Credit for this course will be given only when the requirements of both components have been completed. 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. This is a Pass/No Pass Course. *Three hours lecture.*
- ENGL 355L** 1.5 Units
English 355 Lab
Corequisite(s): ENGL 355. Repeatability: May be repeated once, for a maximum total of 3 units credit. Students who fail the coreq ENGL 355 twice must enroll in ENGL 310 for individualized instruction. 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 course. *Four and one-half hours Lab.*
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English

ENGL 370 3.0 Units 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 'Credit' and a score of 6 or more on the Composition Mastery Final Examination upon completion of ENGL 305 or 350 or 355. *Corequisite:* ENGL 370L. Credit for the course will be given only when the requirements for all components have been met. *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 course. *Three hours lecture.*

ENGL 370L .5 Unit English Fundamentals Lab

Corequisite(s): ENGL 370. Repeatability: May be repeated once, for a maximum total of one unit credit. Students who fail the coreq ENGL 370 twice must enroll in ENGL 310 for individualized instruction 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. This is a pass/no pass course. *1.5 hours Lab weekly.*

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.*

ENGL 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. Announcements of Special Topics courses appear in the Schedule of Classes.

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 .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, credit/no credit course. May be repeated to a maximum of 6 units, including initial enrollment. *Two hours activity weekly per unit.*

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. Note: This is a credit/no credit only course. Repeatable 1 time. *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. Note: This is a credit/no credit only class. Repeatable 1 time. *Three hours lecture.*

English

English as a Second Language

ESL 006 3.0 Units ESL Composition Skills

Prerequisite: Successful completion of 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 writing, vocabulary acquisition, and related grammar practice. Includes ongoing practice in critical analysis of English paragraph logic. 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. Repeatable 1 time. *Three hours lecture.*

ESL 055 3.0 Units Advanced ESL Reading

Prerequisites: Successful completion of ESL 078 or ESL 079 or ESL Assessment Test Score: Level 1. A class for advanced non-native speakers of English involving the active, problem-solving process of intensive reading and focusing on the coordination of a number of skills to assist the student in drawing information from a content-oriented, college-level text. Students will also practice critical, extensive reading and writing at their individual level and pace using outside texts from the ESL collection at the Solano College Library. Comprehension tasks, exercises, quizzes, a final exam and weekly written journals are required for successful completion. Repeatable 1 time. *Three hours lecture.*

ESL 077 3.0 Units Conversation/Pronunciation Skills

Corequisite: Concurrent enrollment in ESL 077L. Prerequisite: Successful completion of 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 .5 Units ESL 077 Lab

Corequisite(s): 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. Repeatability: May be repeated to a maximum of 6 units, including initial enrollment. *One and one-half hours lab.*

ESL 078 3.0 Units Intermediate ESL Reading

Prerequisite: Successful completion of 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. Repeatable 1 time. *Three hours lecture.*

ESL 079 3.0 Units Intermediate Sentence Structure: Spoken English

Prerequisite: Successful completion of 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. Repeatable 1 time. *Three hours lecture.*

ESL 087 3.0 Units Advance Sentence Structure: Written English

Prerequisite: Successful completion of ESL 078 or ESL 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 100 3.0 Units Health Professionals: Exploring Career Goals in Health Care

Prerequisite(s): Eligibility for placement in ESL 077,078,079. Course Advisory: SCC minimum English and Math Standards. Designed for health care professionals with low-intermediate English language proficiency. Integrated language skills on themes such as career options and requirements in health care, job resumes and interviews in health care, and phone and email communication in health care settings. Repeatability: Not Repeatable. *Three hours lecture.*

ESL 101 3.0 Units Health Professionals: Communicating with Patients and Families

Prerequisite(s): Eligibility for placement in Level II ESL courses which are ESL 077, ESL 078, and ESL 079. Designed for health care professionals with low-intermediate English language proficiency. Integrated language skills on themes such as discussion of treatment options with patients, patient-centered communication techniques, and strategies for communicating with special-needs patients. *Three lecture hours.*

English

ESL 330 .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. May be repeated to a maximum of 6 units, including initial enrollment. *One one-half to four one-half hours activities.*

ESL 372 3.0 Units
Fund 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 Comm

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.*

ESL 374 3.0 Units
ESL Basic Grammar A

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.*

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 required courses in one of the majors 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 an Associate Degree will be able to:

1. Increase understanding of diverse ethnic groups in American society
2. Understanding 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. Competence in understanding the unique contributions of ethnic groups in American Society

Required Courses Units

African-American Studies

ENGL 033 Survey of African American Literature in the United States	3
<i>or</i>	
ENGL 034 African American Novel and Drama in the United States	3
SOCS 028 Introduction to African Studies	3
HIST 028 African American History to 1877	3
<i>or</i>	
HIST 029 African American History Since 1865	3
SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict	3
SOC 023 Sociology of African Americans	3
<i>or</i>	
SOCS 023 The African-American Family	3
Any course listed in any Ethnic Studies major	3
Total Units	18

Latino Studies Units

ENGL 035 Latina/o Literature	3
SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict	3
SOCS 025 Mexican-American Experience	3
SPAN 001 First Semester Spanish	5
<i>or</i>	
SPAN 002 Second Semester Spanish	5
<i>or</i>	
SPAN 003 Third Semester Spanish	5
<i>or</i>	
SPAN 004 Fourth Semester Spanish	5
<i>or</i>	
HIST 030 History of Mexico	3
<i>or</i>	
HIST 031 Mexican American/Chicano History	3
Any courses listed in the Ethnic Studies Program	6
Total Units	18 – 20

Asian-American Studies Units

ENGL 037 Survey of Asian American Literature	3
HIST 032 History of the Philippines	3
SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict	3
SOCS 026 Filipino-American Experience	3
Any courses listed in any Ethnic Studies Major	6
Total Units	18

Native-American Studies Units

ENGL 032 Introduction to Native American Literature	3
SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict	3
SOCS 027 Native American Experience	3
Any courses listed in any Ethnic Studies Major	6
Total Units	18

Ethnic Studies

Ethnic Studies Combination	Units
AMST 001 An Interdisciplinary Study of American Culture	3
<i>or</i>	
AMST 002 An Interdisciplinary Study of American Culture	3
SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict	3
SPAN 001 First Semester Spanish	5
SPAN 002 Second Semester Spanish	5
SPAN 003 Third Semester Spanish	5
<i>or</i>	
SPAN 004 Fourth Semester Spanish	5
Electives selected from the following list	12
Total Units	23

Select 12 units from the following	
(all 3-unit courses): Units	
ENGL 032 Introduction to Native American Literature	3
ENGL 033 Survey of African American Literature in the United States	3
ENGL 034 African American Novel and Drama in the United States	3
ENGL 035 Latina/o Literature	3
ENGL 036 Multi-Ethnic Literature in America	3
HIST 028 African American History to 1877	3
<i>or</i>	
HIST 029 African American History Since 1865	3
HIST 030 History of Mexico	3
HIST 031 Mexican American/Chicano History	3
HIST 032 History of the Philippines	3
MUSC 007 Jazz and Popular Music in America: Ragtime to rock	3
PSYC 024 Psychology of African Americans	3
SOC 023 Sociology of African Americans	3
SOCS 025 Mexican-American Experience	3
SOCS 026 Filipino-American Experience	3
SOCS 027 Native American Experience	3

Recommended Electives for all Ethnic Studies Programs	
AMST 001 An Interdisciplinary Study of American Culture	
AMST 002 An Interdisciplinary Study of American Culture	
ANTH 002 Cultural Anthropology	
COUN 055 Valuing Diversity	
ENGL 032 Introduction to Native American Literature	
ENGL 037 Survey of Asian American Literature	
HIST 030 History of Mexico	
JAPN 101 Conversational Japanese	
JAPN 102 Conversational Japanese	
PHIL 031 Introduction to World Religions of the East	
PHIL 032 Introduction to World Religions of the West	
PLSC 005 Constitutional Rights in a Multicultural Society	
SOCS 028 Introduction to African Studies	
SOC 002 Social Issues and Problems	
SPAN 025 Introduction to Latin-American Culture: An Exploration of Identity. Through Essay, Film, and Short Story	
TAG 101 Conversational Tagalog	
TAG 102 Conversational Tagalog	
THEA 013 Diversity in American Theatre: A Contemporary Focus	

Fashion Design

FDES 062

3.0 Units

Clothing Construction

Course Advisories: 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 Advisories: 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 Advisories: 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 18-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 an 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	3
TV 050 Survey of Broadcasting	3
TV 055 Beginning Television Production	3
TV 056 Advanced Television Production	3
<i>or</i>	
CINA 016 Film Production	3
TV 060 Television and Film Writing	3
Total Units	18

Recommended Electives:

ART 010 Art Appreciation
 CINA 011 American Cultures in Film
 JOUR 011 Introduction to Mass Communication
 MUSC 008 Music Appreciation
 PHOT 030 Beginning Photography
 SPCH 015 Oral Interpretation of Literature
 THEA 001 Principles and Theory of Acting
 THEA 002 Principles and Theory of Acting
 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**
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**
Amer Cultures 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 (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. 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. Repeatable 2 times. *Three hour lecture, three hours weekly by arrangement.*

Film and Television

Film and Television

TV 050 3.0 Units

Survey 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 or concurrent enrollment. 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. Repeatable 1 time. *Three hours lecture and 1 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. Repeatable 1 time. *Three hours lecture.*

TV 099 1.0 to 3.0 Units

Telecommunication Honors

Prerequisites: 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 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. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement.*

TV 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. Announcements of Special Topics courses appear in the Schedule of Classes.

Fine Arts

Program Description

An interdisciplinary program designed to provide a broad exposure to the fine arts. The program includes courses in Theatre Arts, Telecommunications, Music and Art. (The individual 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 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

This information is not available at the time of printing. Please check online for current information as it is available.

Required Courses	Units
ART 010 Art Appreciation	3
MUSC 007 Jazz and Popular Music in America:	
Ragtime to rock	3
<i>or</i>	
MUSC 008 Music Appreciation	3
THEA 001 Principles and Theory of Acting	3
<i>or</i>	
THEA 010 History of Theatre 1	3
TV 050 Survey of Broadcasting	3
<i>or</i>	
CINA 010 The Art of Cinema	3
Select three units from selection one below	3
Select three units from selection two below	3
Total Units	18

Recommended Electives

SPCH 001 Introduction to Public Speaking
SPCH 015 Oral Interpretation of Literature
PHOT 148
THEA 003 Stagecraft
THEA 005 Applied Drama
THEA 007 Directing
TV 055 Beginning Television Production

Selection One: Select three units

from the following:	Units
MUSC 005 Music Fundamentals	3
MUSC 010 Concert Band	2
MUSC 014 Jazz Ensemble	2
MUSC 020 Choir	2
MUSC 025 Chamber Choir	2
MUSC 026 Vocal Jazz Ensemble	2
MUSC 027 Elementary Piano Part I	1.5
MUSC 028 Elementary Piano Part II	1.5
MUSC 029 Intermediate Piano Part I	1.5
MUSC 030 Intermediate Piano Part II	1.5

Selection Two: Select three units from

the following:	Units
ART 004 Life Drawing	2 - 3.5
ART 006 Design Principles in 2-Dimensions	3.5
ART 015 Intermediate Drawing	2 - 3.5
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

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.

Certificate of Achievement and 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 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 development; and compare methods of heat transfer.
6. Calculate flow requirements for fire apparatus; diagram a pump and plumbing 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 the electives below

Total Units 30

Select 12 units from the following electives: Units

ECTN 102 Electrical Safety	1 - 3
FIRE 060 Wildland Pyrophyte Taxonomy.	3
FIRE 083 Fire Candidate Physical Fitness	2 - 2.5
FIRE 102 * Fire Service Safety Practices.	3
FIRE 112 Hazardous Materials I	3
FIRE 113A Wildland Firefighter Academy	18
FIRE 114 Fire Apparatus Maintenance	3
FIRE 117 Confined Space Awareness	2
FIRE 118 Confined Space Rescue	2
FIRE 119 Trench Rescue	2
FIRE 134 Prevention IA	2.5
FIRE 135 Prevention IB Inspection/ Fire Prot. Systems & Spec Haz	2.5

FIRE 140 Fire Technology Academy	24
FIRE 145 Fire Investigation I	2
FIRE 146 Fire Investigation II	2
FIRE 148Q Confined Space Awareness	2
FIRE 148S Fire Management 2C	2
FIRE 148T Rescue Systems I	2
FIRE 148U Strike Team Leader (S-334)	2
FIRE 148W Hazardous Materials Technician 1A	2
FIRE 148X Hazardous Materials Technician 1B	2
FIRE 148Y Hazardous Materials Technician 1C	2
FIRE 148Z Hazardous Materials Technician 1D	2
FIRE 150 Fire Command 1A	2
FIRE 151 Fire Command 1B	2
FIRE 155 Basic ICS (I-200)	1
FIRE 161 Fire Management I.	2
FIRE 170 Fire Service Instructor 1A	2
FIRE 171 Fire Service Instructor 1B	2
FIRE 190 Emergency Response to Terrorism	3
FIRE 250 Logistics Section Chief-I450	3
FIRE 251 Supply Unit Leader SEMS/ICS	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
Fire Instructor I –FIRE 170 & 171
Prevention Officer II –FIRE 174, 196, 176

Public Education Officer I –FIRE 134 & 135
Prevention Officer I –FIRE 134, 135, & 136
Chief Officer –FIRE 165, 166, 167, 168, 185, 186, 187, 188, 189

Fire Technology

Hazardous Substance and Waste Handling Technician Certificate of Achievement Only

A Certificate of Achievement in Hazardous Substance and Waste Handling can be obtained by completing the courses listed below. Training meets OSHA requirements for workers handling hazardous substances. An Associate of Science Degree is not available with this option.

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
FIRE 050 Principles of Emergency Services	3
FIRE 102 Fire Service Safety Practices	3
FIRE 112 Hazardous Materials I	3
FIRE 115 Hazardous Waste Operations	2
FIRE 116 Hazardous Substance Management	3
FIRE 123 Fire Service Principles and Procedures I	1
IMGT 172 Industrial Safety	3
OR	
IMGT 173 Occupational Safety & Health	0
Total Units	18

Recommended Electives

OCED 091 General Work Experience
FIRE 114 Fire Apparatus Maintenance

Hazmat Worker Job-Direct Certificate

The required courses must be completed with a grade "C" or better.

Required Courses	Units
FIRE 115 Hazardous Waste Operations	2
FIRE 128 Emergency Medical First Responder for the Fire Service	3
Total Units	5

Pre-Fire Technician Job-Direct Certificate

The required courses must be completed with a grade "C" or better.

Required Courses	Units
FIRE 148BB Introduction to Homeowner Inspections	1
FIRE 148CC Introduction to Pre Fire Instruments and Defensible Space Design	4
FIRE 148DD Introduction to Pre Fire Engineering	3
FIRE 148EE Pre-Fire Fuels Management	0
FIRE 148FF Fire Operations in the Wildland Urban Interface	0
FIRE 148GG Pre-Fire Silvicultural Practices	3
Total Units	11

Wildland Fire Technology Job-Direct Certificate

The required courses must be completed with a grade "C" or better.

Required Courses	Units
FIRE 060 Wildland Pyrophyte Taxonomy	3
FIRE 113A Wildland Firefighter Academy	18
Total Units	21

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 055 **3.0 Units**

Fundamentals of Fire Service Operations

Course Advisory: SCC minimum English standard. Provides the student with the fundamentals of fire department organization, management, and resources, and the use of those resources to control various emergencies. This is a Fire Technology elective course and may be used, if necessary, in order to complete the fire technology electives portion of the 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 057 **4.0 Units**

Fire Service Safety and Survival Practices

Course Advisory: Eligibility for ENGL 001. Pre-requisite: FIRE 050 with a minimum grade of C. Designed to provide: 1. Past, present and future firefighter death and injury statistics and investigation reports in the United States. 2. Knowledge of firefighter safety programs, risk management techniques and the dangers associated with working in Immediately Dangerous to Life and Health (IDLH) atmospheres 3. The need for cultural and behavioral changes relating to firefighter safety and survival techniques. This course will have a 3 hour lab per week that includes working off of ladders, elevated surfaces, and in confined spaces. *Three hours lecture and Three hours lab.* (Formerly FIRE 102)

FIRE 060 **3.0 Units**

Wildland Pyrophyte Taxonomy

Course Advisory: SCC minimum English and math standards. Provides basic identification of the most common and dangerous wildland pyrophyte plant species and their corresponding firefighting mitigation practices. Prepares the rural homeowner living in the wildland areas of California and the wildland firefighter with the information necessary to safely suppress wildland fires and protect structures in advance of wildland fires. *Three hours lecture, One hour lab.*

FIRE 083 **2.0 or 2.5 Units**

Fire Candidate Physical Fitness

Course Advisories: SCC minimum English and math standards. Provides lifelong fitness knowledge to gain employment with a federal, state, county, city or special district fire agency. Provides certification with the Fire Service Joint Labor Management Wellness/Fitness Initiative 'Candidate Physical Ability Test.' Repeatable 3 times. (Same as PE 083) *One hour lecture, two or three hours activity.*

Fire Technology

FIRE 112 3.0 Units

Hazardous Materials I

Course Advisory: SCC minimum English standard. A study of fire protection chemistry and physics; analysis and discussion of fire protection emergencies and their solutions relative to the manufacture, storage, transportation, handling and use of acids, alkalies, space-age fuels and other hazardous materials. Repeatable 3 times. *Three hours lecture.*

FIRE 113A 18.0 Units

Wildland Firefighter Academy

Corequisite(s): Fire 60 Wildland Pyrophyte Taxonomy
Prerequisite(s): (1) Completion of Fire/PE 83 course or certificate of completion of the USDA Forest Service PACK physical agility test or C-PAT physical agility test. (2) Fire 128 Emergency Medical First Responder for the fire Services or American Red Cross First Responder for the Professional. (3) MATH 330 or equivalent; eligibility for ENGL 370. (4) Dean Approval will be required for all Letters of Request for Admission into Fire 113A. Course Advisory: Completion of English 001. This course presents the basic principles, and safety requirements and techniques of wild land fire prevention, human behavior issues on firelines and fire control. It covers legal areas of wild land fire protection, emergency situation leadership, fire prevention and mutual aid systems for federal wild land fire management and control personnel. This course is recommended for fire technology, forestry, conservation, public land stewards, wildlife preserve workers, and wildlife majors. Successful completion of this course will result in the student obtaining the nationally recognized seasonal fire fighting certificates required by the USDA Forest Service, the Bureau of Land Management, the National Park Service, the Bureau of Indian Affairs, and other federal firefighting agencies. Additionally, successful students will receive an EMT 212 Emergency medical Technician (Basic) Certificate of Completion. Field trips (labs) will be required. *Twelve hours lecture, eight hours lab.*

FIRE 113B 18.0 Units

Fire Technology Academy

Prerequisite(s): FIRE 50; FIRE 113A; Fire 128 or EMT 212; Proof of Completion of Fire/PE 83 or USFS PACK Test or C-Pat Test within the previous 12 month period; Completion and Submission of the Solano Community College Fire 113B Fire Tech Academy Application including application guidelines, application form, personal biography. Course Advisory: SCC minimum English and math standards. Prospective Firefighter I Academy students will be required to fill out a Personal Health History Questionnaire that depicts the student's health history. Based upon the information found in said questionnaire, a medical examination may be required. A course containing the contents of Fire 115, 123, 124, 125, 126, 127, 129, 130, 131, and Low Angle Rope Rescue Operational. Upon successful completion of this course, the student will become eligible for certification by the State Fire Marshal's Office as a Fire Fighter I. *Fifteen hours lecture and nine hours lab.* (Formerly FIRE 140)

FIRE 114 3.0 Units

Fire Apparatus Maintenance

Course Advisories: Eligibility for ENGL 001 and SCC minimum math standards. 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 114A 2.5 Units

Fire Service Driver/Operator 1A

Prerequisite: Either: (1) State Fire Marshal Certification as a Firefighter I or (2) written proof of at least 2 years experience in good standing in an organized fire entity, or completion of Fire 114 and possession of a valid California Driver's License with a Class B firefighter restricted (minimum). *Course Advisory: SCC minimum English and math standards.* An in-depth course designed by the California State Fire Marshal's Office to provide the student with basic knowledge and manipulative skills necessary to safely and effectively drive, maintain and make minor repairs to a Type I, Type II and Type III fire engine during emergency and non-emergency situations as a single resource or in strike team configuration. [Special Note: This course was developed and is owned by the State of California-Office of the State Fire Marshal(CSFM) and can only be taught for Certification by a CSFM certified and registered instructor using only CFSM developed lesson plans, books and instructor materials.] This course is a State Fire Marshal Certified Course and all successful students will be awarded a State Fire Marshal Certificate. Repeatable 2 times. *Four hours lecture* (10 week course).

FIRE 114B 2.5 Units

Fire Apparatus Driver/Operator 1B

Prerequisite: Either: (1) State Fire Marshal Certification as a Firefighter I or (2) written proof of at least 2 years experience in good standing in an organized fire entity, or completion of Fire 114 and possession of a valid California Driver's License with a Class B firefighter restricted (minimum). *Course Advisory: SCC minimum English and math standards.* An in depth course designed by the California State Fire Marshal's Office to provide the student with basic knowledge and manipulative skills necessary to safely and effectively operate, maintain and make minor repairs to fire apparatus pumps during emergency and non-emergency situations. [Special Note: This course was developed and is owned by the State of California-Office of the State Fire Marshal(CSFM) and can only be taught for Certification by a CSFM certified and registered instructor using only CFSM developed lesson plans, books and instructor materials.] This course is a State Fire Marshal Certified Course and all successful students will be awarded a State Fire Marshal Certificate. Repeatable 2 times. *Four hours lecture* (10 week course).

Fire Technology

FIRE 115 Hazardous Waste Operations <i>Course Advisories: SCC minimum English and math standards.</i> Study of hazardous waste identification and handling techniques. Prepares individuals to identify a product, select safety equipment to wear, and how to mitigate clean-up procedures. <i>Two hours lecture, one hour lab.</i>	2.0 Units	FIRE 124 Fire Service Principles and Procedures II <i>Course Advisory: SCC minimum English standard.</i> Presents the application of the basic skills in connecting, elevating and controlling hose lines and streams. Repeatable 3 times. <i>Sixteen hours lecture, eight hours lab</i> (1 week course).	1.0 Unit
FIRE 116 Hazardous Substance Management <i>Course Advisory: SCC minimum English standard.</i> Designed to give business personnel, hazardous substance handlers, and others an overview of federal and state organizations responsible for hazardous waste and substance laws. An introduction to the Occupational Safety and Health Administration (OSHA) 29CFR1910.120 worker right to know laws will also be covered. Participants will be trained to identify and utilize the different hazardous materials identification systems. <i>Three hours lecture.</i>	3.0 Units	FIRE 125 Fire Service Principles and Procedures III <i>Course Advisory: SCC minimum English standard.</i> Designed to train personnel in volunteer and paid fire departments. Includes laying single and multiple lines of hose, coupling hose, loading hose, connecting and operating hose devices, and connecting hose lines to auxiliary appliances. Repeatable 3 times. <i>Sixteen hours lecture, five hours lab</i> (1 week course).	1.0 Unit
FIRE 117 Confined Space Awareness <i>Course Advisory: SCC minimum English and math standards.</i> Upon successful completion of this course the student will be aware of the hazards associated with confined space and how to properly mitigate these hazards. <i>Forty hours lecture</i> (1 week course).	2.0 Units	FIRE 126 Fire Service Principles and Procedures IV <i>Course Advisory: SCC minimum English standard.</i> Designed to train personnel in volunteer and paid fire departments. Includes operation of stream appliances, hose operations above and below street level, salvage covers, fold and carry covers, spread and hand covers, improvising with covers, protecting building contents, and operation of air moving equipment. Repeatable 3 times. <i>Sixteen hours lecture, five hours lab</i> (1 week course).	1.0 Unit
FIRE 118 Confined Space Rescue <i>Course Advisory: SCC minimum English and math standards.</i> Upon successful completion of this course the student will have acquired all the required skills and knowledge necessary to perform a safe and properly executed confined space rescue under emergency conditions. <i>Forty hours lecture</i> (1 week course).	2.0 Units	FIRE 127 Fire Service Principles and Procedures V <i>Course Advisory: SCC minimum English standard.</i> Designed to train personnel in volunteer fire departments. Includes use of water removal tools and equipment, removal of debris and hazards, collection and preservation of evidence, operation of fire protection systems, identification of hazardous and explosive materials, use of life lines and belts, and traffic control. Repeatable 3 times. <i>Sixteen hours lecture, five hours lab</i> (1 week course).	1.0 Unit
FIRE 119 Trench Rescue <i>Course Advisory: SCC minimum English and math standards.</i> The student must be able to identify the hazards associated with trench rescue and master the skills necessary to mitigate those hazards as demonstrated in actual trench rescue manipulative skills sessions. Demonstration of critical thinking thought processes relative to safety during a simulated trench rescue will be an essential element of the course. Each student must bring to the class an approved safety helmet, safety glasses, gloves, hearing protection, and lug soled 8 inch high leather boots with steel toes and shank. <i>Forty hours lecture</i> (1 week course).	2.0 Units	FIRE 128 Emergency Medical First Responder for the Fire Service <i>Course Advisory: SCC minimum English and math standards.</i> Intended as a prerequisite for the stand alone EMT 212 course and as a prerequisite 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. Repeatable 3 times. <i>Two and one-half hours lecture, one and one-half hours lab.</i>	3.0 Units
FIRE 123 Fire Service Principles and Procedures I A study of the related tools and equipment used in fire suppression and rescue work. Repeatable 3 times. <i>Sixteen hours lecture, five hours lab</i> (1 week course).	1.0 Unit	FIRE 129 Fire Control I <i>Course Advisory: SCC minimum English standard.</i> Study of how fires start, spread and are controlled. Repeatable 3 times. <i>Twenty-Four hours lecture</i> (1 week course).	1.0 Unit

Fire Technology

FIRE 130 Fire Control II <i>Course Advisory: SCC minimum English and math standards.</i> Study of the identification of fire problems, use of equipment and personnel in search, rescue, and lifesaving situations created by fire. <i>Twenty-Four hours lecture</i> (1 week course).	1.0 Unit	FIRE 135 Prevention IB Inspection/Fire Prot. Systems & Spec Haz <i>Prerequisite: Either: (1) Completion of all SCC Fire Technology Core Courses (FIRE 050; 051; 053; 054; 055; 056) with a grade of "C" or better OR (2) State Certification as a Firefighter I and II AND (3) Completion of California State Fire Marshal Fire Prevention IA (FIRE 134). Course Advisory: SCC minimum English standard.</i> An in depth course designed by the California State Fire Marshal's Office to provide the student with information to (1) identify the classification, properties, labeling, incidental storage, handling, and use of flammable and combustible gases and hazardous materials other than flammable and combustible liquids and gases; (2) understand the principles and operational readiness of portable fire extinguishers, special fixed fire suppression systems, detection and alarm systems, sprinkler systems and fire pumps, and standpipe systems. [SPECIAL NOTE: This course was developed and is owned by the State of California-Office of the State Fire Marshal(CSFM) and can only be taught for Certification by a CSFM certified and registered instructor using only CSFM developed lesson plans, books and instructor materials.] Repeatable 2 times. <i>Four hours lecture</i> (10 week course).	2.5 Units
FIRE 131 Fire Control III <i>Course Advisory: SCC minimum English standard.</i> Designed to prepare company officers or potential officers to supervise fire-ground operations, control serious fires, and deal with other emergencies requiring a sound knowledge of the principles of strategy and tactics. <i>Twenty-one hours lecture</i> (1 week course).	1.0 Unit		
FIRE 132 Pump Operation and Fire Hydraulics <i>Course Advisory: SCC minimum English standard.</i> Presents the principles of hydraulics as they relate to pumps used in fire fighting and appurtenant manipulative skills that accompany these principles. Repeatable 3 times. <i>Thirty-two hours lecture, eight hours lab</i> (1 week course).	2.0 Units		
FIRE 134 Prevention IA <i>Prerequisite: Either: (1) Completion of ALL SCC Fire Technology Fire Core Courses with a grade "C" or better: Fire 050; Fire 051; Fire 053; Fire 054; Fire 055 and Fire 056, or (2) State Certification as a Firefighter I and II. Course Advisory: SCC minimum English standard.</i> An in depth course designed by the California State Fire Marshal's Office to provide the student with knowledge of : (1) the responsibility and authority for fire prevention inspections and related activities, (2) principles and procedures used to correct fire hazards, (3) occupancy classifications and types of building construction, (4) basic 'means of egress' requirements, (5) operational readiness of fire rated assemblies, (6) general fire safety provisions, (7) public relations as it relates to fire prevention inspections. [Special Note: This course was developed and is owned by the State of California-Office of the State Fire Marshal(CSFM) and can only be taught for Certification by a CSFM certified and registered instructor using only CSFM developed lesson plans, books and instructor materials.] Repeatable 2 times. <i>Four hours lecture</i> (10 week course).	2.5 Units	FIRE 136 Prevention 1C-Flammable Liquids and Gases <i>Prerequisite: Either: (1) Completion of all SCC Fire Technology Fire Core Courses with a grade "C" or better: Fire 050; Fire 051; Fire 053; Fire 054; Fire 055; Fire 056 or (2) State Certification as a Firefighter I and II and (3) Completion of CSFM Fire Prevention 1A and 1B. Course Advisory: SCC minimum English standard.</i> An in depth course designed by the California State Fire Marshal's Office to: (1) identify the physical properties of flammable liquids and gases, combustible liquids, and compressed gases, (2) provide information relative to the storage and handling of flammable liquids and gases, (3) provide information regarding the installation of storage tanks and containers for flammable liquids and gases, (4) identify the techniques for extinguishment of flammable liquids and gases, (5) provide information relative to DOT labeling and placarding for flammable liquids and gases, (6) identify regulations governing the transportation of flammable liquids and gases, (7) identify procedures for controlling compressed and liquefied gas leaks, (8) identify procedures relative to the transfer of compressed liquefied gases. [Special Note: This course was developed and is owned by the State of California-Office of the State Fire Marshal(CSFM) and can only be taught for Certification by a CSFM certified and registered instructor using only CSFM developed lesson plans, books and instructor materials.] Repeatable 2 times. <i>Four hours lecture</i> (10 week course).	2.5 Units

Fire Technology

- FIRE 140** **24.0 Units**
Fire Technology Academy
Prerequisite(s): FIRE 050 with a minimum grade of C and FIRE 083 with a minimum grade of C or PE 083 with a minimum grade of C or a passing grade on the CPAT or PACK test as evidence by 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 and thirty one hours lab.*
- FIRE 145** **2.0 Units**
Fire Investigation I
Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1) Firefighter I Certification and Firefighter II Certification. Dean approval based on (SFM) guidelines. Course Advisory: SCC minimum English standard. Presents the methods for determining the cause and place of fire origin, investigative techniques for accidental and incendiary fires, recognition and preservation of evidence, developing an arson case, trial preparation and courtroom testimony, preparation of adequate reports, fire investigation photographs and diagrams. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).
- FIRE 146** **2.0 Units**
Fire Investigation II
Prerequisite: FIRE 145-Fire Investigation I. Course Advisory: SCC minimum English standard. A continuation of Fire Investigation with emphasis on case preparation and courtroom demeanor. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).
- FIRE 147A** **3.0 Units**
Pre-Fire Fuels Management
Course advisories: SCC minimum English and Math standards. A study of fuel modeling within California as it applies to predicted flame lengths and flame depths, catastrophic fire potential and their resultant challenges in terms of wildland fire control, structure loss potential and subsequent defensible space requirements. Safety training will be incorporated throughout the course. *Two hours lecture, three hours lab.*
- FIRE 147B** **3.0 Units**
Fire Operations in the Wildland Urban Interface
Corequisite: FIRE 060. Course Advisory: SCC minimum English and math standards. Presents the fundamentals, objectives, and effects of basic wildland/urban interface pre-fire planning and suppression techniques. Study of past catastrophic wildland/urban interface fires and basic wildland fire weather and behavior will be used to establish a baseline of understanding modern pre-fire planning and suppression techniques. Safety training will be incorporated throughout the course. Field trips are required. *Two hours lecture, three hours lab.*
- FIRE 148BB** **1.0 Unit**
Introduction to Homeowner Inspections
Course Advisory: SCC minimum English and math standards. This is an introductory course which provides basic entry level skills in door-to-door homeowner inspections as required in the Public Resources Code Section 4291 for defensible space requirements with emphasis on cultural practices related to annual native grasses, trees, shrubs, and groundcovers including planting, watering, mowing, fertilizing, and disposal. Included in this course is inspection ethics, fire-safe building construction practices, inspection report writing, and vicarious liabilities to the inspector. Safety training will be incorporated throughout the course. *One hour lecture.*
- FIRE 148CC** **4.0 Units**
Introduction to Pre-Fire Instruments & Defensible Space Design
Course Advisory: SCC minimum English and math standards. This is an introductory course, which provides basic entry-level skills in defensible space measuring devices and practices as required by state and federal firesafe and firewise statutes and best management practices of the landscape construction and maintenance industry, as well as professional foresters and arborists, with special emphasis on wildland/urban interface mitigation. Safety training will be incorporated throughout the course. *Three hours lecture, three hours lab.*
- FIRE 148DD** **3.0 Units**
Introduction to Pre-Fire Engineering
Course Advisory: SCC minimum English and math standards. An introduction to the assessment, skills and mitigation techniques of local, state and federal wildland/urban interface fire protection problems designed to develop methods to mitigate these problems through landscape maintenance practice with emphasis on care and maintenance of trees, shrubs, ground covers, lawns and firesafe building construction practices. Safety training will be incorporated throughout the course. *Two hours lecture and Three hours lab.*

Fire Technology

FIRE 148GG

3.0 Units

Pre-Fire Silvicultural Practices

Course Advisory: SCC minimum English and math standards. A study of pre-fire forestry and silvicultural practices commonly used within the timber harvest industry with a special emphasis on: prescribed fire to reduce fire hazards and risks, harvesting trees for sale/barter that were removed to attain defensible space, California Environmental Quality Act (CEQA) regulations pertaining to timber harvesting, timber harvest plans, responsibilities of a registered professional forester, forest insect and disease identification/prevention/control, constructing shaded fuelbreaks and firebreaks, timber harvesting construction equipment identification and study of the hydrologic cycle and its appurtenant potential for causing erosion and mass soil movement. *Three hours lecture.*

FIRE 148W

2.0 Units

Hazardous Materials Technician 1A

Pre-requisite: FIRE 112. Course Advisory: Eligibility for ENGL 001. This is the first of four courses in a series which studies advanced hazardous materials incident management techniques emphasizing the aspects of basic fire chemistry and physics of chemical compounds as they relate to public and first responder safety including compound classification, states of matter, exothermic and endothermic reactions, alkalines, halogens, Noble gases, electron bonding, material propensities, flammable liquids, oxidation and reduction and mitigation procedures. Upon successful completion of all four of the courses in the series the student will qualify for California Specialized Training Institute (CSTI) certification. 'Student may challenge Fire 112 based on successful completion of a CSTI approved Hazardous Material-Operations course. *Forty lecture hours* (1 week).

FIRE 148X

2.0 Units

Hazardous Materials Technician 1B

Pre-requisite: FIRE 148W. Course Advisory: Eligibility for ENGL 001. This is the second of four courses in a series which studies advanced hazardous materials incident management techniques emphasizing detection, monitoring and handling of contaminants including dangerous particulates, gases, radiation and flammables; use of combustible gas indicators, flame and photo ionization detectors, radiation monitoring devices, colorimetric tubes, electrochemical sensors and infrared spectroscopy and a HazMat Chemical Identification Kit. Upon successful completion of all four of the courses in the series the student will qualify for California Specialized Training Institute (CSTI) certification. Students must purchase a HazCat Chemical Identification Kit. *Forty lecture hours* (1 week).

FIRE 148Y

2.0 Units

Hazardous Materials Technician 1C

Prerequisite(s): FIRE 148W and FIRE 148X. Course Advisory: Eligibility for ENGL 001. This is the third of four courses in a series which studies advanced hazardous materials incident management techniques emphasizing toxicological and meteorological factors, sheltering, evacuation, respiratory protection, and protective clothing; toxins, thresholds, exposure levels, antidotes, safe refuge and incident command system (ICS). Students will demonstrate their ability to utilize self contained breathing apparatus (SCBA), protective clothing, grounding and bonding equipment, plugging and patching, chemical sampling, testing and absorption. Upon successful completion of all four of the courses in the series the student will qualify for California Specialized Training Institute (CSTI) certification.

FIRE 148Z

2.0 Units

Hazardous Materials Technician 1D

Prerequisite(s): FIRE 148W, 148X, and 148Y Course Advisory: Eligibility for ENGL 001. This is the fourth of four courses in a series which studies advanced hazardous materials incident management techniques emphasizing the implementation of the employer's emergency response plan, incident command system and post incident analysis. Students will be required to perform solid and liquid sampling; identify sampling tools; use a belt weather kit; construct a dike and overflow dam; participate in a plugging, patching and overpacking exercise; demonstrate proper use of a chlorine A and B kit, overpacking a 55 gallon drum; and control leaks in a pipe or tank. Upon successful completion of all four of the courses in the series the student will qualify for California Specialized Training Institute (CSTI) certification.

FIRE 150

2.0 Units

Fire Command IA

Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1) completion of ALL Fire Technology Core Courses with a grade of 'C' or better: FIRE 050; FIRE 051; FIRE 053; FIRE 054; FIRE 055; FIRE 065, or (2) attainment of an Associate Degree in Fire Technology. Dean approval based on SFM guidelines. Course Advisory: SCC minimum English standard. Presents the fire science principles and techniques applied to fire control and extinguishment; effective and efficient use of manpower, equipment, communications at fires and fire-related emergencies; pre-fire planning methods and techniques, and control and extinguishing methods for fires of all types. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

Fire Technology

- FIRE 151** **2.0 Units**
Fire Command IB
Prerequisite(s): FIRE 150 - Fire Command 1. A Course Advisory: SCC minimum English standard. Presents the fire science principles and techniques applied to fire control and extinguishment; effective and efficient use of manpower, equipment, communications at fire and fire-related emergencies; pre-fire planning methods, techniques of control and extinguishing methods for fires of all types. The principles and techniques described are related to hazardous materials incidents. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).
- FIRE 152** **2.0 Units**
Fire Management 2C
Prerequisite(s): FIRE 165 - Fire Management 2A Organization and Development Course Advisory: SCC minimum English and math standards. Upon successful completion of this course, the student will have acquired all the necessary knowledge and skills to successfully deal with (a) representatives, officers and agents of organized labor unions, (b) labor relations representatives and, (c) subordinate personnel while administering progressive disciplinary measures, reprimanding and dismissing said personnel. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course). (Formerly FIRE 148S)
- FIRE 153** **2.0 Units**
Rescue Systems I
Prerequisite(s): Low Angle Rope Rescue. Dean approval based on State Fire Marshals guidelines. Course Advisory: SCC minimum English and math standards. Provides the required knowledge and manipulative skills necessary to safely and effectively perform rescues from elevated and subterranean surfaces. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course). (Formerly FIRE 148T)
- FIRE 154** **2.0 Units**
Strike Team Leader (S-334)
Prerequisite(s): Qualified Fire Officer. Dean approval based on State Fire Marshals guidelines. Course Advisory: SCC minimum English and math standards. Presents the methodologies and job performance requirements to adequately function as a Strike Team Leader in a Mutual Aid and Wildland Fire Capacity. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course). (Formerly FIRE 148U)
- FIRE 155** **1.0 Unit**
Basic ICS (I-200)
Course Advisories: SCC minimum English and math standards. This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course is Dean approval based on proof of (1) Firefighter I Certification or (2) Documented member in Good Standing for at least two years in an organized fire entity. A course containing the contents of the Incident Command System (FIREScope I-200) including establishing the identity of command and resource section assignments of planning, operations, safety, logistics, resources, finance administration and communications. *Twelve hours lecture* (one to eight weeks course).
- FIRE 161** **2.0 Units**
Fire Management I
Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1) Firefighter I Certification or (2) Documented member in Good Standing for at least two years in an organized fire entity. Dean approval based on SFM guidelines. Course Advisory: SCC minimum English standard. Study of fire company functions, operations, and public safety responsibilities; duties, functions, and responsibilities of fire company personnel; fire company personnel instruction, training, and administration; fire company records, reports and public relations with an emphasis on the company officers' role. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).
- FIRE 165** **2.0 Units**
Fire Management 2A Organization and Development
Prerequisite: FIRE 161 - Fire Management I. Course Advisories: SCC minimum English and math standards. Prepares students to recognize and react to the different internal and external personality traits. Student will be taught to utilize fire service management principles in handling the different personality traits. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).
- FIRE 166** **2.0 Units**
Management 2B-Finance for Chief Officer
Prerequisite: FIRE 165 - Management 2A Organization and Development. Course Advisories: SCC minimum English and math standards. Teaches the student to analyze, prioritize and adjust budget requests. Students will be taught to assemble, reinforce, and sell their budget proposals. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

Fire Technology

FIRE 168 **2.0 Units**
Management 2D-Master Planning
Prerequisite: FIRE 165 - Management 2A Organization and Development. *Course Advisories:* SCC minimum English and math standards. Fire service program planning, master planning, forecasting, systems analysis, and policy analysis. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

FIRE 169 **2.0 Units**
Fire Management 2E Issues and Concepts
Prerequisite: FIRE 165 - Management 2A Organization and Development. *Course Advisories:* SCC minimum English and math standards. Prepares students to work with the different legislative bodies and be familiar with urban politics. Special emphasis is placed on preparing students to work with different public agencies. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

FIRE 170 **2.0 Units**
Fire Service Instructor IA
Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1) completion of ALL Fire Technology Core Courses with a grade of "C" or better: FIRE 050; FIRE 051; FIRE 053; FIRE 054; FIRE 055; FIRE 065, or (2) attainment of an Associate Degree in Fire Technology. Dean approval based on SFM guidelines. *Course Advisory:* SCC minimum English standard. Provides a variety of methods and techniques to help fire service personnel select, develop and organize material for in-service programs. Includes methods of evaluation and an opportunity to apply major principles of learning through practice demonstrations. Designed for fire company officers who conduct in-service training programs. Repeatable 3 times. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

FIRE 171 **2.0 Units**
Fire Service Instructor IB
Prerequisite: FIRE 170 - Fire Service Instructor 1A. *Course Advisory:* SCC minimum English standard. Designed to give the student more sophistication in the development, implementation and evaluation of in-service programs in the fire service. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

FIRE 174 **2.0 Units**
Prevention 2A Systems and Building Components
Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1) Firefighter I Certification and Firefighter II Certification. Dean approval based on (SFM) guidelines. *Course Advisories:* SCC minimum English and math standards. Designed for personnel who are seeking employment or are currently employed in the fire service or other related industrial fields. Emphasis is placed on utilizing codes relative to extinguishing or alarm systems and the evaluation of fire resistive building construction. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

FIRE 176 **2.0 Units**
Prevention 2C-Special Hazard Occupancies
Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1) Firefighter I Certification and Firefighter II Certification. Dean approval based on (SFM) guidelines. *Course Advisories:* SCC minimum English and math standards. Special fire prevention challenges. This course addresses industrial ovens, finishing processes, welding, refrigeration systems, and medical gases. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

FIRE 177 **2.0 Units**
Investigation 2A Criminal & Legal Procedures
Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1) Firefighter I Certification and Firefighter II Certification. Dean approval based on (SFM) guidelines. *Course Advisories:* SCC minimum English and math standards. Enables the student to effectively gather the required information for a search warrant and present it properly to a magistrate. Through mock trial, students learn proper court room demeanor and cross-examination skills. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

Fire Technology

FIRE 180 **2.5 Units**
Public Education I-Systematic Planning & Communication Skills

Course Advisory: SCC minimum English standard.
Prerequisite(s): Firefighter I and II Certification, OR A documented member in good standing for at least two (2) years in an organized fire entity, OR Completion of all SCC Fire Technology Core Courses with a Grade of "C" or better; namely, FIRE 050, FIRE 051, FIRE 053, FIRE 054, FIRE 055, and FIRE 056. Topics include systematic planning process for public education, use of CFIRS to analyze local fire problems, communication skills, program evaluation, working with the media, integrating programs into schools, gaining community support, fire safety for children, interviewing and counseling juvenile fire setters, creating and using audio visual resources, and ideas and resource sharing. Repeatable 2 times. *Four hours lecture* (ten week course).

FIRE 185 **2.0 Units**
Fire Command 2A-Command Tactics at Major Fires

Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1) Firefighter I Certification and Firefighter II Certification. Dean approval based on (SFM) guidelines. Course Advisories: SCC minimum English and math standards. Designed for chief officers and company officers, it prepares the student to use management techniques and the incident command system when commanding multiple alarms or large numbers of suppression forces. Applies to CHIEF OFFICER and accredited by CFSTES. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

FIRE 186 **2.0 Units**
Command 2B-Command of Major Haz-Mat Incidents

Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1) Firefighter I Certification and Firefighter II Certification. Dean approval based on (SFM) guidelines. Course Advisories: SCC minimum English and math standards. Prepares officers to manage serious hazardous materials incidents. The course includes areas of discussion on information and databases; organizations, agencies and institutions involved in hazardous materials response and research; planning for hazardous materials problems; legislation, litigation and liabilities of hazardous materials responses. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course)

FIRE 187 **2.0 Units**
Fire Command 2C High Rise Emergencies

Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1) Firefighter I Certification and Firefighter II Certification. Dean approval based on (SFM) guidelines. Course Advisories: SCC minimum English and math standards. Designed for Chief Officers, company officers and fire fighters. The course prepares personnel to utilize the Incident Command System as well as tactics and strategy procedures in mitigating high rise emergencies. Emphasis is placed on pre-fire planning and internal fire protection systems. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course)

FIRE 188 **2.0 Units**
Command 2D-Disaster Planning

Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1) Firefighter I Certification and Firefighter II Certification. Dean approval based on (SFM) guidelines. Course Advisories: SCC minimum English and math standards. Designed to prepare fire service personnel in planning for large scale disasters. Included are principles of disaster planning and management, fire service emergency plans, emergency operations centers, roles of local, state, and federal emergency management agencies. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

FIRE 189 **2.5 Units**
Fire Command 2E Wildland Fire Fighting Tactics

Course Advisories: SCC minimum English and Math standards. A study of command techniques used in selecting and utilizing resources during wildland fire fighting. This is a component of the State Fire Marshall's Advanced Fire Command series. Field trips are required. *Two and one-half hours lecture.*

FIRE 190 **3.0 Units**
Emergency Response to Terrorism

Course Advisory: Eligibility for ENGL 001. Designed for first responders to weapons of mass destruction incidents, this course will provide a basic understanding of the identification, rescue, and exclusion zones applicable to these incidents. Repeatability: May be repeated up to three times. *Three hours lecture.*

Fire Technology

FIRE 196

2.0 Units

Prevention 2-B - Interpreting Codes

Prerequisite(s): This is a course belonging to and controlled by the California State Fire Marshal (SFM) through its State Fire Training Division and that division controls all aspects of the administration of this course including prerequisites. The SFM prerequisites for this course are proof of (1)

Firefighter I Certification and Firefighter II Certification.

Dean approval based on (SFM) guidelines. Course

Advisories: SCC minimum English and math standards.

Covers in-depth information about the fire and life safety standards of buildings as related to the UBC and Title 19 and 24. Types of construction, occupancy classifications, egress, interior finishes. Applied to Fire Prevention II and accredited by CFSTES. *Two to sixteen hours lecture and four to thirty two hours activities* (one to eight weeks course).

FIRE 250

3.0 Units

Logistics Section Chief-I450

Course Advisories: SCC minimum English and math standards. Provides the training necessary to perform as a Logistics Section Chief trainee on typical emergency incidents such as hazardous materials spills, wildland fires, earthquakes, and other calamities Each student must attain a score of 80% on each unit test and final test in order to receive a NWCG Certificate as a Logistics Section Chief. *Forty-eight hours lecture* (one week course).

FIRE 251

3.0 Units

Supply Unit Leader SEMS/ICS

Course Advisories: SCC minimum English and math standards. Students who successfully pass this course with an 80% or higher score will be certified as mastering the NWCG Supply Unit Leader course of study. This places the student as a 'trainee' Supply Unit Leader and requires the student to perform successfully on one emergency incident as a trainee in order to become qualified as a Supply Unit Leader. With this the course the student is eligible to apply for the 'Red Card' certification as a Supply Unit Leader. *Three hours lecture.*

FIRE 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. Announcements of Special Topics courses appear in the Schedule of Classes.

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 an Associate Degree will be able to:

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	Units
FREN 001 First Semester French	5
<i>or</i>	
FREN 031 First Semester French, Part 1	3
<i>and</i>	
FREN 032 First Semester French, Part 2	3
FREN 002 Second Semester French	5
<i>or</i>	
FREN 033 Second semester French, Part 1	3
<i>and</i>	
FREN 034 Second Semester French, Part 2	3
FREN 003 Third Semester French	5
FREN 004 Fourth Semester French	5
FREN 011 Conversational French	3
FREN 012 Intermediate French Conversation	3

German Units

GRMN 001 First Semester German	5
<i>or</i>	
GRMN 031 First Semester German, Part 1	3
<i>and</i>	
GRMN 032 First Semester German, Part 2	3
GRMN 002 Second Semester German	5
<i>or</i>	
GRMN 033 Second Semester German, Part 1	3
<i>and</i>	
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
<i>or</i>	
SPAN 031 First Semester Spanish, Part 1	3
<i>and</i>	
SPAN 032 First Semester Spanish, Part 2	3
SPAN 002 Second Semester Spanish	5
<i>or</i>	
SPAN 033 Second Semester Spanish, Part 1	3
<i>and</i>	
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.

Certificate of Achievement and Associate in Science 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 Certificate of Achievement/Associate Degree will be able to:

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 Units

Foreign Language, French

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 033 Second semester French, Part 1	3
FREN 034 Second 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

Foreign Languages

Foreign Languages, French

FREN 001 5.0 Units

First Semester French

Prerequisite: None. NOTE: Not open for credit to students who have had two or more years of high school French with a grade of 'B' or better within the last three years or to students who have completed FREN 031 and/or 032. 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 lab manual will be used to evaluate student progress. *Five hours lecture, one hour weekly of listening to tapes.*

FREN 002 5.0 Units

Second Semester French

Prerequisites: FREN 001, or FREN 031 and 032, or two years of high school French. NOTE: Not open to students who have completed FREN 033 and/or 034. 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 and oral assignments and completion of the lab manual will be used to evaluate student progress. *Five hours lecture, one hour weekly of listening to tapes.*

FREN 003 5.0 Units

Third Semester French

Prerequisites: FREN 002, or FREN 034, or three years of high school French. Continuation of FREN 002, FREN 003 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 lab manual will be used to evaluate student progress. *Five hours lecture.*

FREN 004 5.0 Units

Fourth Semester French

Prerequisite: FREN 003. Complete review and expansion of grammar, idioms and structure, use of complex tenses and stylistic explanations. Extensive work is done in reading, writing and conversing in French. Students will subscribe to and learn to read effectively a French newspaper. There will be an introduction to serious literary works in French with an introduction to literary analysis in both written (la redaction) and oral (l'explication de texte) forms. Exams, quizzes, written and oral assignments and completion of the lab manual will be used to evaluate student progress. *Five hours lecture.*

FREN 011 3.0 Units

Conversational French

Prerequisite: FREN 002 or FREN 034 with a grade of 'C' or better. 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(s): FREN 011 or the equivalent. This course is a continuation of FREN 11, 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

Prerequisites: 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 grade of 'B' or better within the past three years. NOTE: In order to fulfill the one semester of French 1 requirement of some universities, transfer students must complete the sequence of FREN 031-032. 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 lab manual will be used to evaluate student progress. *Three hours lecture, one hour weekly of listening to tapes.*

FREN 032 3.0 Units

First Semester French, Part II

Prerequisites: FREN 031 or one year of high school French. 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 grade of 'B' or better within the last three years. NOTE: In order to fulfill the one-semester French 1 requirement of some universities, transfer students must complete the sequence of FREN 031 and 032. 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 lab manual will be used to evaluate student progress. *Three hours lecture, one hour weekly of listening to tapes.*

Foreign Languages

FREN 033 Second Semester French, Part I <i>Prerequisites: FREN 001 or FREN 032. Not open for credit to students who have received credit for FREN 002.</i> Continuation of FREN 001 (or FREN 032), presenting 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 and oral assignments and completion of the lab manual will be used to evaluate student progress. <i>Three hours lecture.</i>	3.0 Units	GRMN 002 Second Semester German <i>Prerequisites: GRMN 001, or GRMN 031 and 032, or two years of high school German or the equivalent. NOTE: Not open to students who have completed GRMN 033 and/or 034.</i> Continuation of GRMN 1, 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 lab manual will be used to evaluate student progress. <i>Five hours lecture, one hour weekly of listening to tapes.</i>	5.0 Units
FREN 034 Second Semester French, Part II <i>Prerequisites: FREN 033. Not open for credit to students who have received credit for FREN 002.</i> Continuation of FREN 033, presenting 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 and oral assignments and completion of the lab manual will be used to evaluate student progress. <i>Three hours lecture.</i>	3.0 Units	GRMN 003 Third Semester German <i>Prerequisite: GRMN 002, or GRMN 034, or three years of high school German.</i> 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 lab manual will be used to evaluate student progress. <i>Five hours lecture.</i>	5.0 Units
FREN 049 French Honors <i>Prerequisites: 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 Division Dean based on instructor availability.</i> Independent study and research, by arrangement with the instructor, in specified fields of study in French or creative writing in French. May be repeated to a maximum of 6 units, including initial enrollment. <i>Three to nine hours weekly by arrangement with instructor and division Dean.</i>	1.0 to 3.0 Units	GRMN 004 Fourth Semester German <i>Prerequisite: GRMN 003 or four years of high school German.</i> 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 lab manual will be used to evaluate student progress. <i>Five hours lecture.</i>	5.0 Units
Foreign Languages, German			
GRMN 001 First Semester German <i>Prerequisite: None. NOTE: Not open for credit to students who have had two or more years of high school German with a grade of 'B' or better within the last three years or to students who have completed GRMN 031 and/or 032. Course Advisory: SCC minimum English standard.</i> 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 lab manual will be used to evaluate student progress. <i>Five hours lecture, one hour weekly of listening to tapes.</i>	5.0 Units	GRMN 011 Conversational German <i>Prerequisite: GRMN 002 or GRMN 034 with a grade of 'C' or better.</i> 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. <i>Three hours lecture.</i>	3.0 Units

Foreign Languages

GRMN 012 3.0 Units

Intermediate German Conversation

Prerequisite(s): GRMN 011. A continuation of GERMN 11, 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

Prerequisites: None. NOTE: Not open for credit to students who have had two or more years of high school German with a grade of 'B' or better within the last three years or to students who have completed GRMN 001. NOTE: In order to fulfill the one-semester German 1 requirement of some universities, transfer students must complete the sequence of GRMN 031 and 032. 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. *Three hours lecture, one hour weekly of listening to tapes.*

GRMN 032 3.0 Units

First Semester German, Part II

Prerequisites: GRMN 031 or one year of high school German. NOTE: Not open for credit to students who have had two or more years of high school German with a grade of 'B' or better within the last three years or to students who have completed GRMN 001. NOTE: In order to fulfill the one-semester German 1 requirement of some universities, transfer students must complete the sequence of GRMN 031-032. 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. *Three hours lecture, one hour weekly of listening to tapes.*

GRMN 033 3.0 Units

Second Semester German, Part I

Prerequisites: 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

Prerequisites: GRMN 033. 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.*

GRMN 049 1.0 to 3.0 Units

German Honors

Prerequisites: 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 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. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement with instructor and division Dean.*

Foreign Languages, 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 lab 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 31 and 32). *Three hours lecture, one hour weekly by arrangement.*

ITAL 032 3.0 Units

First Semester Italian, Part II

Prerequisite: ITAL 031. 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 lab manual will be used to evaluate student progress. *Three hours lecture, one hour weekly by arrangement.*

Foreign Languages

ITAL 033 3.0 Units
Second Semester Italian, Part I

Prerequisite: ITAL 032. Course Advisories: 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 lab manual will be used to evaluate student progress. *Three hours lecture, one hour weekly by arrangement.*

ITAL 034 3.0 Units
Second Semester Italian, Part II

Prerequisite: ITAL 033. 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 lab manual will be used to evaluate student progress. *Three hours lecture, one hour weekly by arrangement.*

Foreign Languages, 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. 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

Prerequisites: 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 Unit
Latin Honors

Prerequisites: 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 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. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement with instructor and division Dean.*

Foreign Languages, Portuguese

PORT 101 3.0 Units
Conversational Portuguese

Course Advisories: SCC minimum English and math standards. Introduction to the Portuguese language, grammar, and idiom. The course emphasizes the acquisition of basic grammatical structures, the development of vocabulary and pronunciation, and exposure to Portuguese and Brazilian culture. *Three hours lecture.*

PORT 102 3.0 Units
Conversational Portuguese

Prerequisite: PORT 101. Course Advisories: SCC minimum English and math standards. Continued introduction to the Portuguese language, grammar, and idioms. The course emphasizes the acquisition of basic grammatical structures, the development of vocabulary and pronunciation, and exposure to Portuguese and Brazilian culture. *Three hours lecture.*

Foreign Languages

Foreign Languages, Spanish

SPAN 001 5.0 Units

First Semester Spanish

Prerequisite: None. NOTE: Not open for credit to students who have had two or more years of high school Spanish with a grade of 'B' or better within the last three years or to students who have completed SPAN 01S, or SPAN 031 and/or 032, or SPAN 61M and/or 62M. 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. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. *Five hours lecture, one hour weekly of listening to tapes.*

SPAN 001S 5.0 Units

Spanish for Spanish Speakers 1

Prerequisite: Oral fluency in Spanish. NOTE: Not open for credit to students who have completed SPAN 01S, or SPAN 031 and/or 032, or SPAN 061M and/or 062M. Course Advisories: SCC minimum English and math standards. This course, which is conducted in Spanish, is the first of a two-semester sequence designed for fluent speakers of Spanish who are proficient in the language, but who have had little or no formal language training. It is meant to provide Spanish language experiences for Spanish-speaking students in pronunciation, aural comprehension, oral and written communication, word usage and vocabulary, reading of prose and elementary principles of grammar. Exams, quizzes, written and oral assignments, and participation in group discussions will be used to evaluate student progress. *Five hours lecture.*

SPAN 002 5.0 Units

Second Semester Spanish

Prerequisites: SPAN 001, or SPAN 001S, or SPAN 032, or SPAN 062M, or two years of high school Spanish. NOTE: Not open to students who have completed SPAN 002S, or SPAN 033 and/or 034, or SPAN 063M and/or 064M. Continuation of Spanish 001, 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 lab manual will be used to evaluate student progress. *Five hours lecture, one hour weekly of listening to tapes.*

SPAN 002S 5.0 Units

Spanish for Spanish Speakers 2

Prerequisite: SPAN 001S, or SPAN 001, or SPAN 031 and 032, or SPAN 061M and 062M, and oral fluency in Spanish. NOTE: Not open to students who have completed SPAN 002, or SPAN 033 and/or 034, or SPAN 063M and/or 064M. Course Advisories: SCC minimum English and math standards. This course, which is conducted in Spanish, is the second part of a two-semester sequence designed for fluent speakers of Spanish who are proficient in the language, but who have had little or no formal language training. It is meant to provide Spanish language experiences for Spanish-speaking students in pronunciation, aural comprehension, oral and written communication, word usage and vocabulary, reading of prose and elementary principles of grammar. Exams, quizzes, written and oral assignments, and participation in group discussions will be used to evaluate student progress. *Five hours lecture.*

SPAN 003 5.0 Units

Third Semester Spanish

Prerequisites: SPAN 002, or SPAN 002S, or SPAN 034, or SPAN 064M, or three years of high school Spanish. A continuation of Spanish 001 and 002. Extensive work is required in grammar, reading, writing, and conversation. Reading includes representative literary selections by Spanish and Latin American writers. Exams, quizzes, and compositions will be used to evaluate student progress. *Five hours lecture.*

SPAN 004 5.0 Units

Fourth Semester Spanish

Prerequisites: SPAN 003 or four years of high school Spanish. Continuation of Spanish 3. Reviews and expands knowledge of elements previously learned, while introducing new material. Exposure to the culture and thinking of the Hispanic peoples is accomplished through the reading of literature by representative Spanish or Latin American writers. Exams, quizzes and compositions will be used to evaluate student progress. *Five hours lecture.*

SPAN 011 3.0 Units

Conversational Spanish

Prerequisite: SPAN 002, or SPAN 02S, or SPAN 034, or SPAN 64M with a grade of 'C' or better. 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.*

Foreign Languages

- SPAN 012** **3.0 Units**
Intermediate Spanish Conversation
Prerequisite(s): Spanish 011. This course is a continuation of SPAN 11, 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. 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 031** **3.0 Units**
First Semester Spanish, Part I
Prerequisites: None. 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 grade of 'B' or better within the last three years. 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. 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 lab manual will be used to evaluate student progress. *Three hours lecture, one hour weekly of listening to tapes.*
- SPAN 032** **3.0 Units**
First Semester Spanish, Part II
Prerequisites: SPAN 031 or SPAN 061M. 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 grade of 'B' or better within the last three years. 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. 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 lab manual will be used to evaluate student progress. *Three hours lecture, one hour weekly of listening to tapes.*
- SPAN 033** **3.0 Units**
Second Semester Spanish, Part I
Prerequisites: SPAN 001, or SPAN 001S, or SPAN 032, or SPAN 062M. Not open for credit to students who have received credit for SPAN 002, SPAN 002S, or SPAN 063M. 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 lab manual will be used to evaluate student progress. *Three hours lecture.*
- SPAN 034** **3.0 Units**
Second Semester Spanish, Part II
Prerequisites: SPAN 033 or SPAN 063M. NOTE: Not open for credit to students who have received credit for SPAN 002 or SPAN 002S. 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 lab manual will be used to evaluate student progress. *Three hours lecture.*
- SPAN 048A** **3.0 Units**
Spanish Cinema for Conversation
Prerequisite: SPAN 003. Course Advisories: SCC minimum English and math 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. NOTE: This course will be conducted in Spanish. *Three hours lecture.*
- SPAN 049** **1.0 to 3.0 Units**
Spanish Honors
Prerequisites: 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 Division Dean 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. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement with instructor and Division Dean.*
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Foreign Languages

SPAN 061M 3.0 Units

Beginning Spanish, Part 1 for Medical Workers

Prerequisite: None. NOTE: Students who complete this course will not be able to receive credit for SPAN 031, SPAN 001, or SPAN 001S. 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. *Three hours lecture, one hour weekly by arrangement.*

SPAN 062M 3.0 Units

Beginning Spanish, Part 2 for Medical Workers

Prerequisite: SPAN 061M or SPAN 031. Course Advisory: SCC minimum English standard. NOTE: Students who complete this course will not be able to get credit for SPAN 032, SPAN 001, or SPAN 001S. 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. *Three hours lecture, one hour weekly by arrangement.*

SPAN 063M 3.0 Units

Beginning Spanish, Part 3 for Medical Workers

Prerequisites: SPAN 062M, or SPAN 032, or SPAN 001, or SPAN 001S. Course Advisory: SCC minimum English standard. NOTE: Not open to students who have completed SPAN 002, or SPAN 002S, or SPAN 033. 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. *Three hours lecture, one hour weekly by arrangement.*

SPAN 064M 3.0 Units

Beginning Spanish, Part 4 for Medical Workers

Prerequisite: SPAN 063M or SPAN 033. Course Advisory: SCC minimum English standard. NOTE: Not open to students who have completed SPAN 002, or SPAN 002S, or SPAN 034. 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. *Three hours lecture, one hour weekly by arrangement.*

Foreign Languages, Tagalog

TAG 101 3.0 Units

Conversational Tagalog

Course Advisory: SCC minimum English standard. An introduction to basic Tagalog designed to acquaint student with basic sentences and vocabulary used in daily conversation. The course will include emphasis on proper pronunciation and intonation as well as an introduction to Philippine customs and culture. *Three hours lecture.*

TAG 102 3.0 Units

Conversational Tagalog

Prerequisite: TAG 101. An intermediate study of basic Tagalog which introduces students to more intricate sentence patterns and further use of functional words in oral communication. The course will also include further study of Philippine culture and new points of Tagalog grammar. *Three hours lecture.*

Foreign Languages

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 3.0 Units

Cross Age Teaching

Prerequisite: Students must have completed French 002 or German 002. Students are assigned to elementary school classes in Solano County to provide foreign language instruction on a weekly basis. Working with a peer partner or partners, students prepare and teach two weekly 30-minute lessons. Students are required to attend weekly seminar in which the mentor professor supervises and critiques the design and implementation of curriculum and assists students with teaching methods.

History

(for Geography-See "Science, General") (For Geology-See "Science, General")
(For Graphic Design and Illustration-See "Art") (For Health Education-See "Physical Education/Athletics")

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, Native-American, Philippine, African-American, Mexican and Mexican-American, California and Women's History.

Associate in Art Degree

The Associate in Arts Degree can be obtained upon completion of 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 an Associate 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 1750. 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

Electives selected 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

HIST 049 History Honors 1 – 3

II. World History Units

HIST 002 World History to 1750 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

HIST 030 History of Mexico 3

HIST 032 History of the Philippines 3

HIST 049 History Honors. 1 - 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 032 History of the Philippines 3

HIST 037 Women in American History 3

HIST 049 History Honors 1 - 3

HIST 002

3.0 Units

World History to 1750

Course Advisories: Eligibility for ENGL 001; SCC minimum math standard. An integrated, holistic study of world civilizations from their beginnings to the mid-18th century. 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 which linked these cultures into an integrated world system during the early modern period. *Three hours lecture.*

HIST 003

3.0 Units

Modern World History

Course Advisories: Eligibility for ENGL 001; SCC minimum math standard. An integrated, holistic 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. *Three hours lecture.*

History

- HIST 004** 3.0 Units
History of Western Civilization to 1500
Course Advisory: Eligibility for ENGL 001. Survey of the history of western civilization from its beginning through the Renaissance. Emphasis will be on analyzing the major social, political, economic and cultural forces which have shaped European societies. *Three hours lecture.*
- HIST 005** 3.0 Units
History of Western Civilization Since 1500
Course Advisory: Eligibility for ENGL 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. *Three hours lecture.*
- HIST 010** 3.0 Units
California History
Course Advisory: Eligibility for ENGL 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 ENGL 001. Survey of the U.S. from the pre-colonial period through Reconstruction. This course will stress the development of the economic, social, political and cultural conditions that shaped the movements, events, and trends of this period of U.S. history. Special attention will be paid to analyzing cause-effect and comparative relationships among major historical developments. *Three hours lecture.*
- HIST 018** 3.0 Units
History of the United States from 1865
Course Advisory: Eligibility for ENGL 001. A survey of the history of the U.S. from Reconstruction to the present. This course will stress the development of the economic, social, political and cultural conditions that shaped the movements, events, and trends of this period in U.S. history. Special attention will be paid to analyzing cause-effect and comparative relationships among major historical developments. *Three hours lecture.*
- HIST 028** 3.0 Units
African American History to 1877
Course Advisory: Eligibility for ENGL 001. A survey of the culture and experience, major events, and movements in the history of African Americans from African origins through 1877. Group development of political strategies to end slavery, gain citizenship, and combat racism, as well as individual contributions of African American leaders and intellectuals are emphasized. *Three hours lecture.*
- HIST 029** 3.0 Units
African American History Since 1865
Course Advisory: Eligibility for ENGL 001. Examines particular major events, personalities and movements that have played an important part in the history of African Americans from the Reconstruction Period up to the present. *Three hours lecture.*
- HIST 030** 3.0 Units
History of Mexico
Course Advisories: ENGL 370; SCC minimum math standard. A survey of Mexican history from the pre-colonial period to the present. This course will emphasize the varied economic, social, cultural, and political conditions and events that have combined to shape modern Mexico. Analysis of cause-effect and comparative relationships among major historical developments will be given special emphasis. Student success will be determined on completion of significant amounts of reading, writing, and critical analysis. *Three hours lecture.*
- HIST 031** 3.0 Units
Mexican American/Chicano History
Course Advisories: Eligibility for ENGL 001; SCC minimum math standard. A survey of Mexican American/Chicano history from the pre-Columbian era 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. Analysis of cause-effect and comparative relationships among major historical developments will be given special emphasis. Student success to be determined upon completion of significant amounts of reading, writing, and critical analysis. *Three hours lecture.*
- HIST 032** 3.0 Units
History of the Philippines
Course Advisory: Eligibility for ENGL 001. A historical survey of the Philippines with emphasis on the political, social, economic, legal and cultural developments. Major topics will focus on the anthropological, Asian, Spanish, Japanese and American influences, as well as independence movement, and political periods to the present. Students will be evaluated on their historical comprehension, critical and analytical written work. *Three hours lecture.*
- HIST 037** 3.0 Units
Women in American History
Course Advisory: Eligibility for ENGL 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.*

History

HIST 049

History Honors

Prerequisites: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 6 units in the discipline with a grade of 'B' or better; an ability to work independently; permission of the Division Dean based on instructor availability. An independent study project which results in a critical examination of history. May be repeated to a maximum of 6 units, including initial enrollment. Three to nine hours weekly by arrangement with instructor and Division Dean.

1.0 to 3.0 Units

HIST 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. Announcements of Special Topics courses appear in the Schedule of Classes.

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 certificates and degrees in six Ornamental Horticulture areas.

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 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

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.

HORT 006 4.0 Units Identification and Ecology of Landscape Plant Materials

Course Advisories: 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. Repeatable 1 time. *Three hours lecture, three hours lab.*

HORT 030 3.0 Units Landscape Design I

Prerequisites: A grade of "C" or better in HORT 006. Course Advisories: 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.*

Horticulture and Plant Science

HORT 031 Landscape Design II <i>Prerequisites: A grade of "C" or better in HORT 030. Course Advisories: HORT 050; SCC minimum English and math standards.</i> 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. <i>Two hours lecture, three hours lab.</i>	3.0 Units	HORT 071 Irrigation Principles <i>Course Advisories: SCC minimum English and math standards; HORT 055.</i> 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. <i>Two hours lecture, three hours lab.</i>	3.0 Units
HORT 050 Introduction to Ornamental Horticulture <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>Two hours lecture, three hours lab.</i>	3.0 Units	HORT 301A Adaptive Horticulture - Basic Skills and Practices <i>Course Advisory: This course is for students with learning difficulties.</i> 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. Repeatable 2 times. <i>Two hours lecture, four hours lab and four hours activities</i> (8 week course).	2.0 Units
HORT 055 Soil and Fertilizers <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>Two hours lecture, three hours lab.</i>	3.0 Units	HORT 301B Adaptive Greenhouse Management <i>Course Advisory: This course is primarily for students with special learning needs.</i> 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. Repeatable 2 times. <i>Two hours lecture, four hours lab and four hours activities</i> (8 week course).	2.0 Units
HORT 056 Landscape Pest Control and Management <i>Course Advisories: SCC minimum English and math standards.</i> 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. Repeatable 1 time. <i>Three hours lecture, three hours lab.</i>	4.0 Units	HORT 301C Adaptive Nursery Management <i>Course Advisory: This course is primarily for students with disabilities.</i> 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. Repeatable 2 times. <i>Two hours lecture, four hours lab, four hours activity</i> (8 week course).	2.0 Units
HORT 070 Landscape Construction and Estimation <i>Course Advisories: SCC minimum English and math standards; HORT 050.</i> 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. <i>Two hours lecture, three hours lab.</i>	3.0 Units	HORT 301D Adaptive Vegetable and Orchard Management <i>Course Advisory: This course is primarily for students with disabilities.</i> 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. Repeatable 2 times. <i>Two hours lecture, four hours lab, four hours activity</i> (8 week course).	2.0 Units

Horticulture and Plant Science

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. Repeatable 2 times. *Two hours lecture, four hours lab, four hours activity* (8 week course).

HORT Special Topics

These courses, numbered 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.

Human Development

Human Development

HUDV 038 3.0 Units Child Development

Course Advisory: Eligibility for ENGL 001. A study of the developing human being from conception through the formative years with emphasis on the close interaction between heredity and the physical, cognitive and psycho-social environment. Observations are included. Field trip may be required. *Three hours lecture.*

HUDV 039 3.0 Units School Years and Adolescent Development

Course Advisories: SCC minimum English standard; PSYC 001 or HUDV 038. Development and maturation of the school-age child and the adolescent; the interrelationship of physical, mental, social, and emotional events will be discussed along with a survey of community resources. *Three hours lecture.*

HUDV 040 3.0 Units Family Relationships

Course Advisory: SCC minimum English standard. 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. *Three hours lecture.*

HUDV 050 3.0 Units Child, Family, Community

Course Advisory: Completion of ENGL 001. A study of the relationship between the child, his/her family, and his/her community. The course includes an analysis of the major theories of personality and social development. Special emphasis is given to resources in the local community that are available to children and families. *Three hours lecture.*

HUDV 053 3.0 Units Teaching in a Diverse Society

Course Advisories: Eligibility for ENGL 001 and SCC minimum Math standards. This course will help students learn to recognize and confront barriers that interfere with their ability to deal effectively with people who differ from themselves while examining the societal systems through which children grow and develop. Various anti-bias classroom strategies will be explored. Course includes self reflection on issues related to social identity, stereotypes, and bias. *Three hours lecture.*

HUDV 070 3.0 Units Lifespan Human Development

Course Advisory: Eligibility for ENGL 001. Note: Not open for credit to students who have successfully completed HUDV 038/039. A survey of human development throughout the life cycle, including physical, social, intellectual, and emotional development from conception to death. Includes direct observation. *Three hours lecture.*

HUDV 075 .5 to 3.0 Units Children with Special Needs

Prerequisite: HUDV 038. Course Advisory: Eligibility for ENGL 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 within the home and community settings. One-half to *Three hours lecture.*

HUDV 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. Announcements of Special Topics courses appear in the Schedule of Classes.

Human Services

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 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

HS 051 Introduction to Human Services	3
COUN 062 Helping Skills: Creating Alliances & Facilitating Change	3
COUN 064A Practicum I	4
COUN 064B Practicum II	4
HS 052 Introduction to Group Processes	3
HS 053 Serving Special Populations	3
HS 055 Introduction to Case Management	3
Total Units	23

Recommended Electives

COUN 055 Valuing Diversity
CJ 001 Introduction to Criminal Justice
CJ 011 Community Relations
CJ 058 Fundamentals of Crime and Delinquency
ECE 062 Introduction to Early Childhood Education
HUDV 038 Child Development
HUDV 039 School Years and Adolescent Development
HUDV 070 Lifespan Human Development
HUDV 075 Children with Special Needs
PSYC 001 Introduction to Psychology
PSYC 002 Biological Psychology
PSYC 005 Abnormal Psychology
PSYC 010 Psychology of Woman
PSYC 020 Personal and Social Behavior
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 026 Filipino-American Experience
SOCS 027 Native American Experience
SOC 001 Introduction to Sociology
SOC 002 Social Issues and Problems
SOC 040 Sociology of the Family

Human Services

HS 051 **3.0 Units**

Introduction to Human Services

Course Advisories: Eligibility for ENGL 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 052 **3.0 Units**

Introduction to Group Processes

Course Advisories: COUN 062; eligibility for ENGL 001; 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 053 **3.0 Units**

Serving Special Populations

Course Advisories: Eligibility for ENGL 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 055 **3.0 Units**

Introduction To Case Management

Prerequisite: COUN 062. Course Advisories: Eligibility for ENGL 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.*

HS 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. Announcements of Special Topics courses appear in the Schedule of Classes.

Industrial Education

Industrial Management, Safety

Program Description

This program is designed to train men and women for management positions in government and industry. The program was developed in cooperation with representatives of the leading industries of Solano County and surrounding areas, and is approved by the Bureau of Industrial Education. The Industrial Safety specialization is designed for the person in a supervisory capacity or the person aspiring to become a safety manager/technician with related experience and basic knowledge of industrial health and hygiene.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion of the 21-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 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

This information is not available at the time of printing. Please check online for current information as it is available.

Required Courses Units

CIS 001 Introduction to Computer Science	3
IMGT 172 Industrial Safety	3
IMGT 182 Organization and Administration of Safety Programs	3
IMGT 183 Introduction to Industrial Hygiene	3
MGMT 050 Principles of Management	3
MGMT 191 Human Relations	3
Elective selected from list of Recommended Electives ..	3
Total Units	21

Recommended Electives:

ACCT 001 Principles of Accounting - Financial
FIRE 050 Principles of Emergency Services
FIRE 112 Hazardous Materials I
MGMT 191 Human Relations
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

Industrial Education

Maintenance Technician

Program Description

This program is designed for the person seeking employment or upgrade of skills in the field of plant equipment/facility maintenance and repair.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion of the 29-unit major below. The Associate in Science Degree can be obtained by completing 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 Certificate of Achievement/Associate Degree will be able to:

1. Calculate direct current (DC) circuit loads.
2. Calculate alternating current (AC) circuit loads.
3. Demonstrate how to set-up and maintain a safe working environment.
4. Utilize a working knowledge of electrical fundamentals, precision tools, and techniques to perform identified tasks.
5. Plan and execute technical applications for the set-up and operation of electrical/electronic equipment.
6. Communicate their ideas and results using their knowledge of written, oral, and graphical communication.

Required Courses	Units
ACR 100 Air Conditioning and Refrigeration	3
<i>or</i>	
ACR 101 Air Conditioning and Refrigeration	3
DRFT 079 Blueprint Reading	3
IT 110 Modern Welding	3
IT 140 Industrial Materials	3
IT 151 Vocational Mathematics	3
IT 160 Electrical Fundamentals	3
IT 170 Hydraulics and Pneumatics	3
MT 160 Introduction to Manufacturing Technology	3
MT 161 Advanced Manufacturing Technology	3
MT 162 Robotic Manufacturing Systems	3
Total Units	29

Recommended Electives:

DRFT 050 Basic Drafting
DRFT 075 Electronic Drafting
ECTN 102 Electrical Safety
FIRE 112 Hazardous Materials I
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

Industrial Education

Mechatronics A.S. Degree

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 in Science Degree

A Certificate of Achievement can be obtained upon completion of the 36 unit major listed below. The Associate in Science Degree can be obtained by completing a total of 60 units, including the 36 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 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 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 148 Electric Machinery	3
MT 162 Robotic Manufacturing Systems	3
Electives Selected from List A	6
Total Units	36

Electives-List A	Units
ACR 100 Air Conditioning and Refrigeration	3
<i>or</i>	
ACR 101 Air Conditioning and Refrigeration	3
DRFT 079 Blueprint Reading	3
DRFT 045 Introduction to Computer-Aided Drafting (CAD)	3
ECTN 102 Electrical Safety	1 - 3
IT 110 Modern Welding	3
IT 140 Industrial Materials	3
OCED 090 Occupational Work Experience	1 - 8

Industrial Education

Manufacturing Technology 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
MT 160 Introduction to Manufacturing Technology	3
MT 161 Advanced Manufacturing Technology	3
OCED 090 Occupational Work Experience.	2
Total Units	9.5

Air Conditioning and 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 Advisories: 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 Education

IMGT 172 3.0 Units Industrial Safety

Course Advisory: SCC minimum English standard. Comprehensive study and analysis of safety principles applied to the workplace. *Three hours lecture.*

IMGT 182 3.0 Units Organization and Administration of Safety Programs

Course Advisory: SCC minimum English standard. Comprehensive review of OSHA requirements and standards pertinent to all workplaces. This course will provide a comprehensive study and analysis of current practices and trends in the organization and administration of safety programs. *Three hours lecture.*

IMGT 183 3.0 Units Introduction to Industrial Hygiene

Course Advisory: SCC minimum English standard. Comprehensive study and analysis of the interrelationship between industrial hygiene and the safety professional. The course examines and contrasts the scope and responsibilities of the industrial hygienist and the safety professional on the occupational health team. *Three hours lecture.*

IMGT 186 3.0 Units

Course Advisory: SCC minimum English standard. Presentation of the principles and functions of accident investigation to meet the requirements and standards of Occupational Safety and Health Administration (OSHA), state, county, city, and insurance regulations. *Three hours lecture.*

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 hour 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.*

Industrial Education

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 150 3.0 Units

Industrial Process

Course Advisory: SCC minimum English standard. Presents the physical, chemical and mathematical processes related to the acquisition, refining, manipulation of man-made and naturally occurring materials used by such areas as auto mechanics, auto body, machine tool and welding. *Two hours lecture, three hours lab.*

IT 151 3.0 Units

Vocational Mathematics

Course Advisories: 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.*

IT 160 3.0 Units

Electrical Fundamentals

Course Advisory: SCC minimum English standard. Presents the principles of DC and AC circuits and introduces residential electrical installations that meet National Electrical Code requirements. Students will complete labs and wiring projects. Lab and electrical safety is emphasized. *Two hours lecture, three hours lab.*

IT 170 3.0 Units

Hydraulics & Pneumatics

Course Advisory: SCC minimum English standard. Study of the application of hydraulic and pneumatic fundamentals pertaining to industrial systems. Includes industrial pumps, actuators, accumulators, filters, meters, valves, and control devices with emphasis on theory, operation and troubleshooting. *Two hours lecture, three hours lab.*

IT 180 3.0 Units

Auto Maintenance

Course Advisory: SCC minimum English standard. Designed to provide an understanding of all phases of auto maintenance, design principles and laboratory practices. Especially useful for those considering further training for purposes of employment. Testing, practical demonstrations and laboratory exercises are required. Repeatable 2 times. *Two hours lecture, three hours lab.*

IT 190 2.0 Units

Metrics

Course Advisory: MATH 304. Presents the fundamentals of the metric system. Includes the history and development of the metric system, as well as how it works in industry. Includes scientific notation, dimensional analysis, and everyday practical uses. *Two hours lecture.*

IT 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. Announcements of Special Topics courses appear in the Schedule of Classes.

Maintenance Technician

MT 110 1.0 Unit

Robotics Manufacturing Lab

Corequisite: CIS 112. Course Advisory: SCC minimum English and math standards. Lab to accompany CIS 112—Introduction to Robotics Programming. Presents the student with hands-on experience programming and operating a 350 degree, 5-axis articulating robotic system. Laboratory and industrial safety standard will be emphasized. *Three hours lab.*

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.*

Industrial Education

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.*

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 mechatronics. Introduces commercial/industrial electrical installations that meet National Electrical Code requirements. Students will complete labs and wiring projects. Lab, electrical and worksite safety is emphasized. *Two hours lecture, three hours lab.*

MT 142 3.0 Units

Principles of Electrical Machinery

Prerequisite(s): MT 140 with a grade of "C" or better or IT 160 with a grade of "C" or better. 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 and 3 hours activities.

MT 160 3.0 Units

Introduction to Manufacturing Technology

Course Advisories: SCC minimum English and math standards. Presentation of the principles of manufacturing technology in safety habits, blueprint reading, precision measuring instruments, principles of applied mathematics and physics involved in mechanical, fluid and thermal systems. Students will develop solutions to manufacturing problems and apply safety oriented work habits to the completion of laboratory projects while working individually and in groups. *Two hours lecture, three hours lab.*

MT 161 3.0 Units

Advanced Manufacturing Technology

Prerequisite: MT 160. Course Advisories: SCC minimum English and math standards. Presentation of the advanced principles in safety habits, applied mathematics and physics involved in mechanical, fluid, thermal and electrical system. Students will develop solutions to manufacturing problems and apply safety oriented work habits to the completion of laboratory projects while working individually and in groups. *Two hours lecture, three hours lab.*

MT 162 3.0 Units

Robotic Manufacturing Systems

Course Advisories: 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.*

MT 201 1.0 Unit

Introduction to the Wind Industry

Course Advisory: SCC minimum English and math standards. Introduces the prospective wind field technician to electrical generation, alternative energy sources, and the wind industry in particular. Students will learn about the opportunities and responsibilities of the wind field technician. Topics covered in subsequent courses in the program will be introduced. *One hour lecture.*

MT 202 1.0 Unit

OSHA Required Safety for the Wind Industry

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. Introduces the prospective wind field technician to the OSHA required safety topics for wind field technicians. Along with personal safety and injury prevention students are introduced to the aspects of proper tool and equipment use as well as the requirements for working in a safe environment. *One hour lecture.*

MT 203 1.0 Unit

CPR, First Aid, and Safety in the Wind Park

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. Introduces the prospective wind field technician to safety and emergency procedures required for wind technicians. Topics include CPR, first aid, tower rescue, and general safety practices in the wind park. *One hour lecture.*

Industrial Education

MT 204 **1.0 Unit**

Electrical Measuring Equipment for Wind Turbines

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. Introduces the prospective wind field technician to the tools and equipment used to measure electrical systems on a wind turbine. Students will be exposed to analog, digital, mechanical, and passive measuring equipment. The capabilities and limitations of various metering equipment will be presented with the safe use of tools and equipment being the primary focus. *One hour lecture.*

MT 205 **1.0 Unit**

Direct Current for Wind Turbines

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. An introduction to direct current electrical systems as used on wind turbines. The student is also introduced to schematic symbols and diagrams used to describe the wind turbine's electrical systems. *One hour lecture.*

MT 206 **1.0 Unit**

Alternating Current for Wind Turbines

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. An introduction to alternating current electrical systems as used on wind turbines. The student is introduced to transformers, converters, and inverters, single and three-phases electrical systems essential to the operation of wind turbines. *One hour lecture.*

MT 207 **1.0 Unit**

High Power Systems for Wind Turbines

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. An introduction to the safe handling of high power systems in the wind industry. Students are introduced to the safety procedures for working with high energy electrical and electrostatic discharge, compressed gasses, and hydraulics. *One hour lecture.*

MT 208 **1.0 Unit**

Electronics for Wind Turbines

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. Introduces the prospective wind field technician to electronics and fiber optics. Provides an introduction to analog, digital and semiconductor electronics, fiber optics technology, and soldering. *One hour lecture.*

MT 209 **1.0 Unit**

Electromechanical Systems for Wind Turbines

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. Introduces the prospective wind field technician to mechanical and electrical systems that make up the wind turbine. The preventative maintenance practices of moving and stationary parts and electrical systems are introduced. *One hour lecture.*

MT 210 **1.0 Unit**

PLC's and Transformers for Wind Turbines

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. Introduces the prospective wind field technician to programmable logic controllers, substations and transformers. *One hour lecture.*

MT 211 **1.0 Unit**

Wind Turbine Maintenance Practices

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. Introduces the prospective wind field technician to the maintenance practices particular to wind turbines. Topics also include troubleshooting techniques, documentation, and service reporting. *One hour lecture.*

MT 212 **1.0 Unit**

Wind Turbine Airfoils and Composites

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. Introduces the prospective wind field technician to airfoils. Students will learn how airfoils are used to capture wind energy and how to maintain rotors and airfoils on wind turbines. *One hour lecture.*

MT 213 **1.0 Unit**

Wind Turbine Operations

Course Advisory: SCC minimum English and math standards. Prerequisites: MT 201 with a grade of "C" or better. An introduction to the operations of wind turbines and the wind park. Students are exposed to Supervisory Control and Data Acquisition (SCADA) systems used to control wind turbines, meteorology, and graphs and charts used to predict wind turbine performance.

MT 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. Announcements of Special Topics courses appear in the Schedule of Classes.

Interdisciplinary Studies-Arts and Humanities

(For Learning Resources – See Liberal Arts) (For Learning Skills – See Counseling)

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

1. Students will discern the relationship between personal perspective and evidence-based evaluation of information.
2. Students will discover the nature and common themes of the disciplines represented by an academic area of emphasis.
3. Students will 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: 006, 009, 010, 011, 014, 015, 016, 017, 018, 019, 020, 022, 023, 024, 025, 026, 027, 028, 031, 032, 033, 034, 035A, 035B, 037, 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

Humanities

AMST 001, 002
ENGL 002, 006, 007, 012, 013, 014, 016, 018, 021, 023, 024, 025, 030, 031, 032, 033, 034, 035, 036, 037, 038, 040, 041, 044, 046, 047
FREN 001, 002, 003, 004, 011, 012, 031, 032, 033, 034
GRMN 001, 002, 003, 004, 011, 012, 031, 032, 033, 034
ITAL 031, 032
HIST 002, 003, 004, 005, 010, 017, 018, 028, 029, 030, 031, 032, 037
LATN 001, 002, 003
PHIL 003, 004, 031, 032
SPAN 001, 002, 003, 004, 011, 012, 025, 031, 032, 033, 034

Interdisciplinary Studies-Arts and Humanities

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 92

COUN 062

ENGL 002, 004, 006, 007, 058, 062, 064

FREN 001, 002, 003, 004, 031, 032, 033, 034

GRMN 001, 002, 003, 004, 031, 032, 033, 034

HS 052

ITAL 031, 032

JOUR 001, 002, 011, 060

LATN 001, 002, 003

PHIL 005

SPAN 001, 002, 003, 004, 025, 031, 032, 033, 034

SPCH 001, 002, 006, 008, 010, 012, 015, 060

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

NUTR 010

PHYS 002, 004, 006, 007, 008, 010

PHSC 012, 012L

PE 020.6, 020.7

PSYC 002

Quantitative Reasoning

CIS 001, 015, 020, 022, 023, 035, 050, 055, 057, 060, 073, 078

CHEM 001, 002, 010, 160

GEOG 10 (GEOL 10)

MATH 002, 004, 011, 012, 020, 021, 022, 023, 030, 031, 040,
051, 102, 103, 104, 112, 114

PSYC 004

Interdisciplinary Studies-Arts and Humanities

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.

AMST 001, 002
ANTH 002, 007
COUN 055, 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
HUDV 038, 039, 040, 050, 052, 053, 058, 070
HS 051, 052, 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, 026, 027, 030, 051, 053
SOC 001, 002, 023, 030, 040, 051
SPCH 012

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
PE 020A, 020H, 020S, 020V, 020W
PE Activity: 001A, 001D, 002A, 002B, 002C, 002D, 002E, 003A, 003C, 003D, 003E, 004A, 004B, 004C, 004D, 004E, 004F, 004H, 004J, 004k 004M 004N, 004P, 005A, 005B, 005C, 005G, 005J, 005K, 005M, 05N, 005P, 006A, 006B, 006C, 006E, 006F, 007A, 007C, 007D, 007E, 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, 052, 053
HUDV 038, 039, 040, 052, 053, 058, 070
LR 001, 010, 011, 051
PSYC 001, 005, 010, 020, 024, 030, 034, 040, 065
SOCS 051

Interior Design

(For Industrial Management-See "Industrial Education) For Industrial Technology-See "Industrial Education")

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 37-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 Certificate of Achievement/Associate Degree will be able to:

1. Demonstrate proficiency at quick sketching and drafting/reading floor plans.
2. Demonstrate proficiency in application of design elements in residential/commercial environments.
3. Demonstrate an understanding of the relationship of textiles and furniture in residential/commercial environments.

Required Courses Units

INTD 050 Interior Design	3
INTD 051 Materials and Techniques	3
INTD 052 Drafting & Perspective Drawing for Interiors	3
<i>or</i>	
DRFT 050 Basic Drafting	3
INTD 053 History of Furniture I.	3
INTD 098A History of Furniture II	3
INTD 055 Advanced Interior design	3
INTD 061 Textiles for Interior Design	3
INTD 065 Kitchen and Bathroom Design	3
BUS 181 Business Mathematics	1
OCED 090 Occupational Work Experience.	3
ART 007 Design-Color.	3
ART 060 Exhibition Design.	3
Select three units from the courses below.	3
Total Units	37

Choose three units from the following:

DRFT 079 Blueprint Reading	3
SPCH 010 Interpersonal Communication.	3
BUS 005 Introduction to Business	3

INTD 050 **3.0 Units**
Interior Design
Course Advisory: SCC minimum English standard. Study of the basic principles and elements of design and their applications in furnishing residential interiors. Students design projects emphasize the functional and aesthetic use of space, color, furniture, accessories, and other resources. *Three hours lecture.*

INTD 051 **3.0 Units**
Materials and Techniques
Prerequisite: INTD 050. Course Advisory: Eligibility for ENGL 001. Provides the practical expertise needed by interior design, construction and installation of custom furnishings for residential and commercial projects. Course work includes design projects, research on new products and technology, field trips and innovative uses of existing resources. Field trip may be required. Repeatable 1 time. *Two hours lecture, two hours lab.*

INTD 052 **3.0 Units**
Drafting and Perspective Drawing for Interiors
Course Advisories: SCC minimum English and math standards. Basic graphic skills of interior design ideas, including one and two-point perspective drawing, drafting of floor plans, section detail and lettering. Student presentation of design project portfolio required. *Two hours lecture, three hours lab.*

INTD 053 **3.0 Units**
History of Furniture I
Course Advisory: SCC minimum English standard. Explore the history of furnishings and interiors from the ancient world to the neoclassical period. The course will cover the evolution of historical styles in ornament and materials including furniture, metalwork, ceramics and glass that form a basis of today's interiors. Stylistic and technical developments, as well as social and historical forces that have affected design will be discussed. *Three hours lecture.*

Interior Design

INTD 055

3.0 Units

Advanced Interior Design

Prerequisites: INTD 050, 051, 052, 053. SCC minimum English standard. Focuses on pre-professional training and career opportunities in interior design and home furnishing merchandising. Course work includes study of color dynamics, light and space planning, research on new materials and technology, and client-oriented design projects for residential and/or commercial interior environments. *Three hours lecture.*

INTD 061

3.0 Units

Textiles for Interior Design

Course Advisories: SCC minimum English and math standards. The study of basic textile technology including fibers, yarns, fabric construction and finishes. Course includes hands-on experience with a variety of textiles. Evaluation is based on written examinations, fabric swatch book, and written assignments. *Two and one-half hours lecture, one and one-half hours lab.*

INTD 065

3.0 Units

Kitchen and Bathroom Design

Prerequisite: INTD 050. Course Advisories: 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 098A

3.0 Units

History of Furniture II

Course Advisory: SCC minimum English standard. This course examines European and American furniture design and architecture of the nineteenth and twentieth centuries in the context of historical developments such as the Industrial Revolution, mass production, the invention of new materials, and the impact of depression, war, and consumer culture. Art Nouveau, the Bauhaus, Purism, De Stijl, Russian Avant-Garde, Art Deco, American modern and Scandinavian design are among the areas covered. *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
IR 001 Global Interdependence	3
ECON 001 Principles of Economics (Macroeconomics)	3
ECON 002 Principles of Economics (Microeconomics)	3
FOREIGN LANGUAGE (Choose from FREN, GRMN, or SPAN numbered 001-034) *	10
GEOG 004 World Geography	3
HIST 005 History of Western Civilization Since 1500	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
ENGL 016 Masterpieces of Western World Literature	3
ENGL 017	0
FOREIGN LANGUAGE—Any course numbered 001-034 not used above	3 - 5
HIST 003 Modern World History	3
GEOG 002 Cultural Geography	3
PHIL 031 Introduction to World Religions of the East	3
PHIL 032 Introduction to World Religions of the West	3
PLSC 002 Introduction to Comparative Governmen	3
SOCS 028 Introduction to African Studies	3
SPCH 010 Interpersonal Communication	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 ENGL 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 students to translate events and issues of importance accurately and responsibly. Student 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 an 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	12
Total Units	24

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

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-

ENGL 002 Critical Thinking and Writing About Literature	3
ENGL 004 Critical Thinking and Composition: Language in Context	3
MATH 011 Elementary Statistics	4
SPCH 006 Argumentation and Debate	3
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
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
SPCH 001 Introduction to Public Speaking	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	

Journalism

JOUR 001 Newswriting & Reporting <i>Prerequisite: Eligibility for ENGL 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units	JOUR 060 Publications Laboratory <i>Prerequisite: Eligibility for ENGL 001.</i> Theory, practice, and training in planning, writing, editing, art work, photography, and management of staff members of the college online and print newspapers. Two-credit option is six hours a week; three-credit option is nine hours a week. Course is not open entry/open exit.	2.0 or 3.0 Units
JOUR 002 Introduction to Feature and Magazine Writing <i>Prerequisite: Eligibility for ENGL 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units	JOUR 062 Journalism Practicum Students will refine their newswriting, illustration or photojournalism skills in a practical setting. <i>Three hours lab.</i>	1.0 Unit
JOUR 011 Introduction to Mass Communication <i>Prerequisite: Eligibility for ENGL 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units	JOUR 099 Journalism Honors: Field Study <i>Prerequisites: 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; and permission of the Division Dean based on instructor availability. Course Advisories: Eligibility for ENGL 1 and SCC minimum Math standard.</i> 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. Repeatable 1 time. <i>Three to nine hours weekly by arrangement.</i>	1.0 to 3.0 Units
JOUR 050 Grammar & Style for Media Writers <i>Prerequisite: Eligibility for ENGL 001; Course Advisory: SCC minimum math standard.</i> Intensive review of grammar, word use, spelling, and principles of clear, concise writing for the media. This course is credit/no credit only. <i>Two hours lecture.</i>	1.0 Unit	JOUR 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. Announcements of Special Topics courses appear in the Schedule of Classes.	

Liberal Arts

(For Landscaping-See "Horticulture")

American Studies

AMST 001 3.0 Units

An Interdisciplinary Study of American Culture

Course Advisories: ENGL 001 and SCC minimum math standard. An interdisciplinary study of American civilization to the end of the Civil War. The course interrelates history, culture, philosophy and literature with emphasis on continuing themes. Critical papers and examinations are required. *Three hours lecture.*

AMST 002 3.0 Units

An Interdisciplinary Study of American Culture

Course Advisories: ENGL 001 and SCC minimum math standard. An interdisciplinary survey of American civilization from the late 19th century to the present. The course interrelates history, culture, philosophy and literature with emphasis on continuing themes. Critical papers and examinations are required. *Three hours lecture.*

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. 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 ENGL 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.

HUMN 003 3.0 Units

Journey Into a Multicultural Landscape

Course Advisories: 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.*

Learning Resources

LR 001 3.0 Units

Principles Of Library Research

Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard. An overview of Information Competency concepts necessary to use research tools and select, locate, retrieve, and evaluate information. Emphasis will be placed on exploring information technologies including search engines, retrieval systems, online collaborative tools, and electronic publishing. *Three hours lecture.*

LR 010 1.0 Unit

Intro Lbry Resrch/Info Comptnc

Course Advisories: Eligibility for ENGL 001; SCC minimum math standard. An introduction to Information Competency skills necessary to use research tools and to select, locate, retrieve and evaluate information. *One hour lecture and two hours by arrangement wkly* (12 week course).

LR 011 1.5 Units

Internet Explored! Advanced Information Competency

Course Advisories: Eligibility for ENGL 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 051) *One and one-half hours lecture.*

LR 012 1.5 Units

Information & Society

Course Advisories: Eligibility for ENGL 001; Computer literacy (familiarity with basic computer functions). LR001, LR010, or LR011. Exploration of the social, cultural, and political context of information and information technologies like the Internet, World Wide Web, search engines, retrieval systems, electronic publishing, and distribution of media, including newspapers, books, and music. *One and one-half hours lecture.*

LR 500 Non-Credit

Topics in Research and Information Competency

A series of workshops introducing students to the fundamentals of Library Research & Information Competency. See the current schedule of classes for topics offered.

Life Management

Program Description

This program is intended for students desiring a broad overview of subjects involved in being an aware individual, consumer and wage earner. This is an interdisciplinary program, so the curriculum is not housed within any one division. The course descriptions may be found under the appropriate disciplines.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion of the 24-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

This information is not available at the time of printing. Please check online for current information as it is available.

Required Courses	Units
CIS 050 Microcomputer Applications	3
CIS 063 WordPerfect	3
FDES 060 Clothing Selection	3
HUDV 040 Family Relationships	3
<i>or</i>	
HUDV 070 Lifespan Human Development	3
HUDV 058 Life Management	3
INTD 050 Interior Design	3
MGMT 194 Personal Finance	3
NUTR 010 Nutrition	3
Total Units	24

Recommended Electives:

ACCT 180 Introduction to Accounting
BUS 182 Small Business Mathematics
COUN 050 Career-Life Planning
COUN 083 Applied Psychology
FDES 062 Clothing Construction
HUDV 038 Child Development
or
HUDV 039 School Years and Adolescent Development
HUDV 040 * Family Relationships
HUDV 050 Child, Family and Community
HUDV 052 Issues In Aging
HUDV 053 Teaching in a Diverse Society
INTD 051 Materials and Techniques
INTD 053 History of Furniture I
INTD 055 Advanced Interior design
MGMT 191 Human Relations
NUTR 101 Food Service Sanitation
OCED 090 Occupational Work Experience
OCED 091 General Work Experience

***If not used in the major**

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 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
MGMT 050 Principles of Management	3
MGMT 055 Management/Leadership Skills	3
MGMT 191 Human Relations.....	3
<i>or</i>	
MGMT 193 Human Resource Management.....	3
BUS 092 Business Communication	3
CIS 050 Microcomputer Applications	3
BUS 181 Business Mathematics	3
Total Units	21

Supporting Courses (for the A.S.)*	Units
ECON 001 Principles of Economics (Macroeconomics) . . .	3
<i>or</i>	
ECON 002 Principles of Economics (Microeconomics) . .	3
ACCT 001 Principles of Accounting - Financial.	4
<i>or</i>	
ACCT 002 Principles of Accounting - Managerial.	4
BUS 018 Legal Environment of Business	3
*Required for the A.S. degree	
Total Units	10

Recommended Electives

OCED 090 Occupational Work Experience

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 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 054 Beginning Keyboarding
OT 055 Intermediate Keyboarding/Word Processing

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 30-31 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 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 180 Introduction to Accounting	3
<i>or</i>	
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	30 – 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.

Management

- MGMT 050** **3.0 Units**
Principles Of Management
Course Advisories: Eligibility for ENGL 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**
Principles of Management/Leadership Skills
Course Advisory: Eligibility to enroll in ENGL 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 184** **3.0 Units**
Small Business Management And Planning
Course Advisory: Eligibility to enroll in ENGL 001. Introduction to the principles of management and planning and how they apply to any small business. Principles discussed include the development of a business strategy, how to finance a small business, financial management, risk management and insurance, developing a business plan, budgeting, credit and collections, recruiting and selecting staff, employee relations, business expansion, buying a business, franchising, and the role of small business in the community and the economy. All students will prepare a business plan. *Three hours lecture.*
- MGMT 186** **3.0 Units**
Small Business Marketing
Course Advisories: SCC minimum English and math standards. Students will learn how to apply the principles of marketing to any small business, enabling the business to attract and keep customers and increase sales. This course is intended to familiarize students with the major elements of marketing, including market research, test marketing, developing a marketing strategy and implementing that strategy by means of advertising, sales, direct mail, telemarketing, public relations, publicity, customer relations, etc. *Three hours lecture.*
- MGMT 188** **3.0 Units**
Computers In Small Business
Course Advisories: SCC minimum English and math standards. Students will learn the five most common applications of computers to small business situations: document, form, and correspondence preparation; accounting/financial statements/budgeting; tracking of customers and prospective customers in sales and marketing; graphic design of flyers, brochures, advertisements, etc. This course does not cover programming and systems analysis. *Three hours lecture, one hour lab.*
- MGMT 191** **3.0 Units**
Human Relations
Course Advisories: 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 Advisories: 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.*
- MGMT 194** **3.0 Units**
Personal Finance
Course Advisories: SCC minimum English and math standards. Study of the everyday problems associated with allocating personal income and the management of personal finance. Emphasizes financial principles associated with planning, decision-making, and budgeting. The course explores the financial concerns of individuals in an economic environment. Topics include financial planning, credit, investments, taxes, risk management, and other current financial issues. *Three hours lecture.*
- MGMT 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. Announcements of Special Topics courses appear in the Schedule of Classes.

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.

Certificate of Achievement and Associate in Science Degree

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 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
<i>or</i>	
CIS 001 Introduction to Computer Science.	3
ECON 002 Principles of Economics (Microeconomics) . .	3
MGMT 050 Principles of Management	3
<i>or</i>	
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
ACCT 180 Introduction to Accounting
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**

MKT 170 **3.0 Units**
Advertising
Course Advisories: SCC minimum English and math standards. A comprehensive study of the principles of advertising as applied to the marketing process. *Three hours lecture.*

MKT 171 **3.0 Units**
Introduction To Marketing
Course Advisories: 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 Advisories: 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 Advisories: 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 Advisories: 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 18-19 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 an Associate Degree will be able to:

1. Effectively communicate solution(s).
2. Solve a problem applying appropriate math concepts and ideas.

Required Courses	Units
MATH 020 Analytic Geometry and Calculus I	4
MATH 021 Analytic Geometry and Calculus II	4
MATH 022 Analytic Geometry and Calculus III	4
MATH 023 Differential Equations	3
<i>or</i>	
MATH 011 Elementary Statistics	4
<i>or</i>	
MATH 012 Mathematical Ideas	3
MATH 040 Introduction to Linear Algebra	3
Total Units	18-19

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 this AS-T degree, students must:

1. complete the following major requirements with grades of C or better;
2. complete a minimum of 60 CSU-transferable semester units with a minimum grade point average of 2.0
3. complete either the California State University General Education Breadth pattern (CSU GE), which requires 39 units, or the Intersegmental General Education Transfer Curriculum (IGETC), which requires 34-39 units. Students are not required to complete Solano's Cross-Cultural Studies requirement.

Program Outcomes

Students who complete an Associate Degree will be able to:

1. Solve a problem applying appropriate math concepts and ideas.
2. Effectively communicate solution(s). These will be assessed using techniques employed by individual instructors in the capstone courses of MATH 022 and MATH 040.

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
<i>or</i>	
MATH 011 Elementary Statistics	4
Total Units	21

Mathematics

- MATH 002** 3.0 Units
Algebra For Calculus (College Algebra)
Prerequisite: A grade of "C" or better in MATH 104. 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. *Three hours lecture, one hour lab.*
- MATH 004** 5.0 Units
Pre-Calculus Mathematics
Prerequisites: A grade of "C" or better in MATH 103 and 104. NOTE: Not open to students who have completed MATH 051 or MATH 002 with a grade of 'C' or better. 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. *Five hours lecture, one hour lab.*
- MATH 011** 4.0 Units
Elementary Statistics
Prerequisite: A grade of "C" or better in MATH 104. Course Advisory: Eligibility for ENGL 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. *Four hours lecture, one hour lab.*
- MATH 012** 3.0 Units
Mathematical Ideas
Prerequisite: A grade of "C" or better in MATH 104. 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 018** 2.0 Units
Exploring Math and Science Teaching
Prerequisite: Math 104 with a grade of "C" or better. Course Advisory: SCC minimum English standard. This course is an education-based field experience in mathematics and science. Weekly seminars will explore how children learn and develop understanding in math and science. Students will be assigned to area schools to assist in the classroom and work in structured one-on-one or group settings for a minimum of two hours per week. Repeatability: Repeatable 1 time. *Two lecture hours.*
- MATH 020** 5.0 Units
Analytic Geometry And Calculus I
Prerequisites: Grades of "C" or better in MATH 002 and 051, or MATH 004. 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. *Five hours lecture, one hour lab.*
- MATH 021** 5.0 Units
Analytic Geometry And Calculus II
Prerequisites: A grade of "C" or better in MATH 020. 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. *Five hours lecture, one hour lab.*
- MATH 022** 4.0 Units
Analytic Geometry And Calculus III
Prerequisites: A grade of "C" or better in MATH 021. 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, one hour lab.*
- MATH 023** 4.0 Units
Differential Equations
Prerequisite: A grade of "C" or better in MATH 021. 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 Laplace transforms and power series methods of solution. *Four hours lecture.*

Mathematics

MATH 030 3.0 Units Analytic Geometry And Calculus

Prerequisites: A grade of "C" or better in MATH 104. *NOTE:* Not open to students who have completed MATH 020 with a grade of 'C' or better. *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. *Three hours lecture, one hour lab.*

MATH 031 3.0 Units Analytic Geometry And Calculus

Prerequisites: MATH 030 with a grade of "C" or better. *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. *Three hours lecture, one hour lab.*

MATH 040 3.0 Units Introduction To Linear Algebra

Prerequisites: A grade of "C" or better in MATH 020 or 030. *NOTE:* A relatively high degree of mathematical maturity is required for this course. *Course Advisory:* SCC minimum English standard and MATH 021. 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. *Three hours lecture, one hour lab.*

MATH 051 3.0 Units Trigonometry

Prerequisites: A grade of "C" or better in 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. *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.

MATH 103 3.0 Units Plane Geometry

Prerequisite: A grade of "C" or better in 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. *Three hours lecture, one hour lab.*

MATH 104 5.0 Units Intermediate Algebra

Prerequisites: A grade of "C" or better in 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. *Five hours lecture, one hour lab.*

MATH 112 3.0 Units Algebraic Reasoning

Prerequisites: MATH 330 or MATH 330B with a grade of "C" or better. *Course Advisory:* SCC minimum English standard. Students will develop their ability to solve problems with algebraic reasoning. Topics including financial math, voting methods, apportionment, and probability have been chosen for their "real-world" applicability and usefulness. Additional topics may be picked by the instructor from various fields of mathematics such as geometry, linear programming, statistics, graph theory, set theory and number theory. *Three hours lecture, one hour lab.*

MATH 114 3.0 Units Math For Health Occupations

Prerequisite: Math 330 or Math 330B with a grade of "C" or better. *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 118 3.0 Units The Beauty of Mathematics

Prerequisites: Math 330 or Math 330B with a "C" or better, or the equivalent. *Course Advisory:* SCC minimum English standard. An introduction to the beauty of mathematics, where the emphasis is on discovery and appreciation of the ideas and their history rather than computations and algorithms. Topics include accessible concepts in geometry, the theory of numbers and analysis including the Pythagorean Theorem, Euler's formula for polyhedra, prime numbers, the irrationality of square root 2, harmonic and other series, and logarithms. *Three hours lecture.*

Mathematics

MATH 160 2.0 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. This course provides a review of select anatomy, physiology, chemistry, nutrition, microbiology, and 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. (Same as BIO 160) Pass / No Pass Class. *Eight hours lecture.* (4 week course)

MATH 310 3.0 Units

Arithmetic (Lecture)

Prerequisite: None. NOTE: Not open for credit to students who have completed MATH 304. 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. *Three hours lecture.*

MATH 320 4.0 Units

Pre-Algebra

Prerequisite: Grade of "C" or better in MATH 310, or 3 units of credit in MATH 304, or 3 units of BUS 181 with a grade of "C" or better. 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. *Four hours lecture, one hour lab.*

MATH 330 5.0 Units

Elementary Algebra

Prerequisite: A grade of "C" or better in MATH 320. 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. *Five hours lecture, one hour lab.* (formerly MATH 102)

MATH 330A 3.0 Units

Elementary Algebra, Part I

Prerequisite: A grade of "C" or better in MATH 320. 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. *Three hours lecture, one hour lab.* (formerly MATH 107)

MATH 330B 3.0 Units

Elementary Algebra, Part II

Prerequisite: A grade of "C" or better in MATH 330A. 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. *Three hours lecture, one hour lab.* (formerly MATH 108)

MATH 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. Announcements of Special Topics courses appear in the Schedule of Classes.

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 an 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 041A Music Majors Piano	1.5
MUSC 041B Music Majors Piano	1.5
MUSC 010 Concert Band	2
<i>or</i>	
MUSC 021 Chorus	2
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 037 -	1.5
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
<i>or</i>	
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 an 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 041A Music Majors Piano	1.5
MUSC 041B Music Majors Piano	1.5
MUSC 010 Concert Band	2
<i>or</i>	
MUSC 021 Chorus	2
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 037 -	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 an 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 041A Music Majors Piano	1.5
MUSC 041B Music Majors Piano	1.5
MUSC 010 Concert Band	2
<i>or</i>	
MUSC 021 Chorus	2
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
<i>or</i>	
MUSC 035B Beginning Voice II	1.5
MUSC 036A Intermediate Voice I	1.5
<i>or</i>	
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 047 Choral Conducting	0
MUSC 051 Jazz and Popular Solo voice	1.5

*MUSC 010 is required the first semester of enrollment

MUSC 001 4.0 Units

Beginning Theory

Course Advisories: SCC minimum English and Math standards. Presents the basic principles of music theory including scales, intervals, modes, cadences, rhythmic and melodic construction and development, basic harmonic progressions, writing and analysis in four part texture in the Common Practice style, the principal triads in inversion, and the leading tone triad. Emphasis is on musicianship skills, including rhythmic and melodic dictation, intervals, chord progressions, sight singing, ear training. Recommended for all students interested in harmony, composition, sight reading and basic musical knowledge. Required for the music transfer student. *Four hours lecture.*

MUSC 002 4.0 Units

Beginning Theory

Prerequisite: MUSC 001 or equivalent. **Course Advisories:** SCC minimum English and Math standards. Presents further investigation into the basic principles of music theory, including supertonic, mediant, sub-mediante triads, common chord progressions, non-harmonic tones, triad usage, dominant seventh and supertonic seventh chords and elementary modulation. Development of ear training skills continues with melodic and rhythmic dictation, recognition of harmonic progressions and non-harmonic tones, and sight singing. Recommended for all students interested in harmony, composition, sight reading, ear development and a continuation of basic concepts. Required for the music transfer student. *Four hours lecture.*

Music

- MUSC 003** **4.0 Units**
Advanced Theory
Prerequisite: MUSC 002 or passage of acceptance exam.
Presents the advanced principles of music theory including modulation, binary and ternary song forms, instrumental and lyric study, secondary dominants, supertonic, mediant, submediant and diminished seventh chords and introduction to altered chords, with description of advanced diatonic tonal procedures. Continues the development of ear training skills, including recognition of two, three and four part melodic dictation, rhythmic dictation, and realization of a chord progression. Techniques are presented through written examples, score analysis, and short vocal and instrumental projects. Recommended for all occupational music students. Required for the music transfer student and major. *Four hours lecture.*
- MUSC 004** **4.0 Units**
Advanced Theory
Prerequisite: MUSC 003 or passage of acceptance examination. Course Advisories: SCC minimum English and Math standards. Presents further investigation into the advanced principles of music theory, including ninth, eleventh, and thirteenth chords, the Neopolitan sixth sonorities, the augmented sixth chords, advanced modulation, non-dominant diatonic chords, tone rows, pandiatonicism, and the study of all chromatic procedures. Continues with the development of ear training skills including all forms of melodic, rhythmic, chordal and formal dictation. Investigation of 20th Century techniques are presented through written examples, score analysis and vocal and instrumental projects. Recommended for all occupational music students; required for the music transfer student and major. *Four hours lecture.*
- MUSC 005** **3.0 Units**
Music Fundamentals
Course Advisories: SCC minimum English and math standards. A basic course including notation, rhythm, and major and minor scales, modes, sight reading, key signature, melody, and triads and ear training concepts. Traces the historical and cultural progress of music through the development of musical symbols and their application. No previous knowledge of music is required. *Three hours lecture.*
- MUSC 006** **3.0 Units**
Composition, Arranging, Songwriting
Prerequisite: MUSC 001 and 002 or equivalent experience. Course Advisories: SCC minimum English and math standards. Presents the principles of musical composition, introduction to instruments and transposition, scoring, arranging, text and lyric setting techniques, and songwriting. Popular styles of composition and songwriting as well as traditional techniques will be presented. Completed projects in the above areas will be required, along with demonstrating the practical application of skills and concepts. Repeatable 3 times. *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. An introductory examination of how composers and songwriters exploit the various elements of music to heighten the expressive impact of a composition. Aspects of melody, rhythm, harmony, tone, and structure will be studied through focused listening of works from Medieval to today's avante-garde and popular styles. *Three hours lecture.*
- MUSC 009** **2.0 Units**
Wind Ensemble
Course Advisories: SCC minimum English standard; play a band instrument. This course offers the study and performance of various styles of wind ensemble literature. Wind ensemble literature, rehearsal technique, and performance practices are examined. Public performances and/or field trips are required. Repeatable 3 times. *One hour lecture, two hours lab and one hour weekly by arrangement.*
- MUSC 010** **2.0 Units**
Concert Band
Course Advisories: SCC minimum English standard; play a band instrument. This course offers the study and performance of various styles of concert band literature. Concert 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 lab and one hour weekly by arrangement.*
- MUSC 011** **2.0 Units**
Symphonic Band
Course Advisories: 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 lab and one hour weekly 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.*
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Music

MUSC 014 Jazz Ensemble <i>Course Advisories: SCC minimum English standard; play a jazz instrument.</i> An instrumental ensemble class analyzing and performing jazz music. This class requires public performance. Repeatable 3 times. <i>One hour lecture, two hours lab and one hour weekly by arrangement.</i>	2.0 Units	MUSC 021 Chorus Designed to train students to sight sing, note read, use proper vocal production and perform a variety of standard choral literature. Open to anyone interested in choral singing. Highly recommended for theory students, vocal and instrumental musicians. Attendance at public performances required. Repeatable 3 times. <i>One hour lecture, two hours lab and one hour weekly by arrangement.</i>	2.0 Units
MUSC 015 Stage Band <i>Course Advisories: SCC minimum English standard; play a jazz instrument.</i> An instrumental ensemble class analyzing and performing stage band music. This class requires public performance. Repeatable 3 times. <i>One hour lecture, two hours lab and one hour weekly by arrangement.</i>	2.0 Units	MUSC 023 Handbell Ensemble <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>One hour lecture, two hours lab, and one hour weekly by arrangement.</i>	2.0 Units
MUSC 016 Symphony Orchestra <i>Course Advisories: SCC minimum English standard; ability to play an orchestral instrument.</i> An opportunity for qualified instrumentalists to perform as part of a symphony orchestra in public performances. A wide variety of musical literature is covered. Public performances and/or field trips are required. This is an open-entry, open-exit course. Repeatable 3 times. <i>One and one-half to Three hours lab.</i>	.5 or 1.0 Units	MUSC 024 Master Works Chorale <i>Prerequisite: Audition of music and vocal skills.</i> Study of choral music techniques and performance of 18th-21st century masterworks for the large ensemble. Both a cappella and symphonic literature to be studied. Designed for singers with previous choral experience. Public performance required. Repeatable 3 times. <i>One hour lecture, two hours activity, and one hour weekly by arrangement.</i>	2.0 Units
MUSC 017 Chamber Orchestra <i>Course Advisories: SCC minimum English standard; play an orchestral instrument.</i> An instrumental ensemble class analyzing and performing large quantities of chamber orchestra music. Public performances and/or field trips are required. Repeatable 3 times. <i>One hour lecture, two hours lab and one hour weekly by arrangement.</i>	2.0 Units	MUSC 025 Chamber Choir <i>Prerequisite: Previous experience in choral ensembles. Audition and/or advisement by current instructor.</i> Advanced study and performance of choral works for the small ensemble. Public performance required. Highly recommended for music majors, especially voice majors. Repeatable 3 times. <i>One hour lecture, two hours lab and one hour weekly by arrangement.</i>	2.0 Units
MUSC 018 Beginning Steel Drum Band <i>Course Advisories: SCC minimum English and Math standards.</i> 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. <i>One hour lecture, two hours lab and one hour weekly by arrangement.</i>	2.0 Units	MUSC 026 Vocal Jazz Ensemble 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. <i>One hour lecture, two hours lab and one hour weekly by arrangement.</i>	2.0 Units
MUSC 019 Instrumental Ensemble <i>Course Advisory: Ability to read music and play an instrument.</i> 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. <i>Two hours lecture, one hour lab.</i>	2.0 Units		
MUSC 020 Choir Study and performance of a variety of a cappella and accompanied choral literature. Attendance at public performances required. Repeatable 3 times. <i>One hour lecture, two hours lab and one hour weekly by arrangement.</i>	2.0 Units		

Music

MUSC 027 Elementary Piano Part I <i>Course Advisories: SCC minimum English.</i> 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. <i>One hour lecture, one hour activity.</i>	1.5 Units	MUSC 032 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. Repeatable 3 times. <i>One hour lecture, one hour activity.</i>	1.5 Units
MUSC 028 Elementary Piano Part II <i>Prerequisite: MUSC 027. Course Advisories: SCC minimum English standards.</i> 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. <i>One hour lecture, one hour activity.</i>	1.5 Units	MUSC 033 Class Lessons in Strings Class instruction in strings. Transfer students are required to study four semesters in their major instrument. Repeatable 3 times. <i>One hour lecture, one hour activity.</i>	1.0 Unit
MUSC 029 Intermediate Piano Part I <i>Prerequisite: MUSC 028. Course Advisories: SCC minimum English standards.</i> 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. <i>One hour lecture, one hour activity.</i>	1.5 Units	MUSC 034 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. Repeatable 3 times. <i>One hour lecture, two hours activity.</i>	2.0 Units
MUSC 030 Intermediate Piano Part II <i>Prerequisite: MUSC 029. Course Advisories: SCC minimum English standards.</i> 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. Repeatable 3 times. <i>One hour lecture, one hour activity.</i>	1.5 Units	MUSC 035A Beginning Voice I <i>Course Advisory: SCC minimum English standard.</i> 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. <i>One hour lecture, one hour activity.</i>	1.5 Units
MUSC 031 Class Lessons in Woodwinds <i>Course Advisory: SCC minimum English standard.</i> 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. Repeatable 3 times. <i>One hour lecture, one hour activity.</i>	1.5 Units	MUSC 035B Beginning Voice II <i>Prerequisite: MUSC 035A or equivalent skills. Course Advisory: SCC minimum English standard.</i> A continuation of MUSC 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. <i>One hour lecture, one hour activity.</i>	1.5 Units
		MUSC 036A Intermediate Voice I <i>Prerequisite: MUSC 35B or evidence of equivalent skills. Course Advisory: SCC minimum English standard.</i> 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. <i>One hour lecture, one hour activity.</i>	1.5 Units

Music

- 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. Repeatable 3 times. 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. Repeatable 3 times. NOTE: Combined enrollments in MUSC 038, 039 and 062 may not exceed 4 units. *One hour lecture, two hours activity.*
- MUSC 041A** 1.5 Units
Music Majors Piano
Course Advisories: 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
Prerequisites: 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 Division 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. Repeatable 3 times. *Three to nine hours weekly by arrangement.*
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Music

- MUSC 051** 1.5 Units
Jazz and Popular Solo Voice
Course Advisories: 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. Repeatable 3 times. *One hour lecture, one hour activity.*
- 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. Repeatable 3 times. *One hour lecture, Three hours lab.*
- MUSC 053** 2.0 Units
Advanced Sound Recording
Prerequisite: MUSC 052. Course Advisories: 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. Repeatable 3 times. *Two hours lecture, one hour activity, one hour weekly 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 weekly by arrangement.*
- MUSC 060** 1.0 Unit
Computer Assisted Music Lab
Course Advisory: MUSC 027. A self-paced course which introduces or further develops musicianship skills through computer-assisted instruction. The course is designed to enhance theory, performance and history study and may be taken to develop skills in specialized areas of composition, conducting, orchestration and arranging, and improvisation. This is an open entry/open exit course. Repeatable 3 times. *One-half to one hour lecture, one and one-half to six hours weekly by arrangement.*
- MUSC 061** 2.0 Units
Midi-Computer Music Sequencing And Scoring
Course Advisories: 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. Repeatable 3 times. *One hour lecture, three hours activity.*
- MUSC 062** 1.5 Units
Introduction to Electric Guitar
Presents the fundamental principles of electric guitar performance techniques. Guitarists are introduced to combo situations, notereading, chord symbols, finger board knowledge, chord in versions, accompaniment styles, 'head' arrangements and ensemble experience. Rhythm and solo techniques are also investigated. Repeatable 3 times. NOTE: Combined enrollments in MUSC 038, 039 and 062 may not exceed 4. *One hour lecture, one hour activity.*
- MUSC 063** 1.5 Units
Introduction to Electric Bass
Presents the principles of electric bass performance techniques. The course emphasizes reading notational symbols in bass clef, chord symbol performance, finger board knowledge, scales, patterns, chord construction harmonic motion and function, and basic accompaniment styles. Familiarizes students with conceptual approach to modern musical styles. *One hour lecture, one hour activity.*
- MUSC 064** .5 Unit
Marching Band
Course Advisories: SCC minimum English standard; play a band instrument. An instrumental performing ensemble using marching band repertoire. Repeatable 3 times. *One and one-half to six hours activity.*
- MUSC 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. Announcements of Special Topics courses appear in the Schedule of Classes.

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

Students who complete an 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)

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)
HUDV 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)

SPCH 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.

APPLICATION STEPS:

1. Apply for admission to Solano Community College online at www.solano.edu or complete an application to SCC (if not already a current/continuing student).
2. Attend a Registered Nursing Information Workshop.
3. Request "official" transcripts from *ALL other colleges or institutions* attended to be SENT to the Office of Admissions and Records (OAR). (Please Note: International college transcripts must be accompanied by a credentialed evaluation service and must include a detailed report which distinguishes lower division from upper division courses and which also provides A-F letter grade values. A list of acceptable evaluation service companies is available from the Office of Admissions and Records).

Nursing

4. Confirm with the Office of Admissions and Records (OAR) that all such transcripts from other colleges have been received by OAR before proceeding to the next step.
5. Visit the Counseling counter to complete the RN Referral/Application form. This must be done in person and will require your California Driver's License Number. **NOTE:** There must be seven (7) business days allowed for OAR to evaluate your transcripts and calculate your overall composite score to determine whether you qualify for the RN Program.
6. After 7 business days return in person to the Counseling Office to request an **"RN" counseling appointment**. (It is the student's responsibility to contact the Counseling Office to schedule this appointment).
7. During the Counseling appointment, if you have met the minimum Composite Score, a Counselor will review with you and post all required pre-Major and General Education requirements.
8. Qualified candidates will then receive a Notice of Eligibility to the Nursing Program with a waiting-list number within 2-4 weeks.

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 issued by the American Red Cross or American Heart Association.
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 requirement for graduation.
5. Provided a clear criminal background check and drug screen.
6. Beginning January 2012 - Achieved a score of 62 or greater on the TEAS V exam. Students showing areas of low scores will be recommended to complete remediation in these topics..

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 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 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.

Nursing

Required Courses

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 3

NURS 050B Basic Human Needs 3.5

HUDV 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 Units

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 4.5

NURS 064 Issues and Leadership in

Health Care Today 1.5

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

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 Outcomes

This information is not available at the time of printing. Please check online for current information as it is available.

Nursing

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:

1. You would complete a total of 49 to 52 units toward the 60 units required for the Associate Degree.
2. You would be a graduate of an accredited ADN program.
3. 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)

HUDV 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:

1. You would complete a total of 29-30 units.
2. You would not be a graduate of an Associate Degree Program.
3. You would not be a graduate of the Solano College Nursing Program and may not wear the school pin.
4. 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.

APPLICATION STEPS

1. Apply for admission to Solano Community College online at www.solano.edu or complete an application to SCC (if not already a current/continuing student).
2. Attend a Registered Nursing Information Workshop.
3. Request "official" transcripts from *ALL other colleges* or institutions attended to be SENT to the Office of Admissions and Records (OAR). (Please Note: International college transcripts must be accompanied by a credentialed evaluation service and must include a detailed report which distinguishes lower division from upper division courses and which also provides A-F letter grade values. A list of acceptable evaluation service companies is available from the Office of Admissions and Records.)
4. Confirm with the Office of Admissions and Records (OAR) that all such transcripts from other colleges have been received by OAR before proceeding to the next step.
5. Visit the Counseling Office to complete the RN Referral/Application form. This must be done in person and will require your California Driver's License number. **NOTE:** There must be seven (7) business days allowed for OAR to evaluate your transcripts and calculate your overall composite score to determine whether you qualify for the RN Program.
6. After 7 business days return in person to the Counseling Office to request a "RN" counseling appointment. (It is the student's responsibility to contact the Counseling Office to schedule this appointment.)
7. During the Counseling appointment, if you have met the minimum Composite Score, a Counselor will review with you and post all required pre-Major and General Education requirements.
8. Qualified candidates will then receive a Notice of Eligibility to the Nursing Program with a wait-list number within 2-4 weeks.

Nursing

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.
- Testing will be required to determine advanced placement credit.

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, issued by American Red Cross or American Heart Association.
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. Beginning January 2012, achieved a score of 62 or greater on the TEAS V exam. Students showing areas of low scores will be recommended to complete remediation in those topics.

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 212 Emergency Medical Technician (Basic)	7
Total Units	7

Nursing

Emergency Medical Technician

EMT 212 **7.0 Units**
Emergency Medical Technician Basic, Lec/Lab
Course Advisory: SCC minimum English and Math Standards; 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 completing the course attend pre-assigned observation times with an emergency department & with an ambulance. 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. Repeatable every 2 years. Five hours lecture, six hours activity.

EMT 213 **1.0 Unit**
Emergency Medical Technician (Basic) Refresher
Prerequisite: EMT 212 or equivalent or previous EMT 213. Course Advisories: 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, Lecture
Corequisite: NURS 058. Prerequisites: ENGL 001, BIO 004, BIO 005, BIO 014, with grade of "C" or better; current CPR for Healthcare Providers, current physical exam, immunizations and background check with drug screen. Authorization to enter RN program. 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. Internet access required. Eight hours lecture, six hours lab (8 week course).

NURS 050B **6.0 Units**
Basic Human Needs, Lecture
Corequisite(s): NURS 058 Prerequisite(s): NURS 050A with grade of "C" or better. 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. Internet access required. Seven lecture hours and fifteen lab hours (8 week course).

NURS 052 **3.0 Units**
Pharmacology for Nursing
Prerequisite: BIOSC 5 with a grade of 'C' or better. Course Advisories: SCC minimum English and Math standards. 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.

Nursing

NURS 054 **5.0 Units** **Maternal-Child Nursing**

Corequisite: Concurrent enrollment in NURS 058.
Prerequisites: NURS 050A & 050B, NURS 052, NUTR 010, and HUDV 070 with grades of C or better. 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 grade of 'C' or better to advance in the nursing program. *Five hours lecture, fifteen hours lab* (8 week course).

NURS 055 **5.0 Units** **Nursing Of Adults I, Lec**

Corequisite: Concurrent enrollment in NURS 058.
Prerequisites: Completion of NURSE 050A & 050B, NURSE 052, NUTR 010, and HUDV 070 with grades of 'C' or better. 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 **.5 to 1.5 Units** **Mediated Skills Development, Lab**

Prerequisites: 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 060 **5.0 Units** **Nursing Of Adults Ii/Medical-Surgical Nursing Lecture**

Corequisite: Concurrent enrollment in NURS 058.
Prerequisites: NURS 054 & NURS 055 and either PSYC 001, PSYC 002 or SOCS 022 with grades of "C" or better. 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, Lecture**

Prerequisites: NURS 054 & NURS 055 and either PSYC 001, PSYC 002 or SOCS 022 with grades of 'C' or better. 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. Internet access required. *Five hours lecture, fifteen hours lab* (8 week course).

NURS 063 **7.0 Units** **Advanced Medical Surgical and Community Nursing**

Corequisites: Concurrent enrollment in NURS 058.
Prerequisites: NURS 060 and 061 with grades of 'C' or better. SCC minimum English and Math standards. 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).

Nursing

NURS 064 2.0 Units

Issues and Leadership in Health Care Today

Corequisite: NURS 063 and/or NURS 065. Prerequisites: NURS 060 & 061 with grades of 'C' or better. Course Advisories: SCC minimum English and Math standards.

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. Prerequisites: NURS 063 with grades of 'C' or better. Course Advisories: SCC minimum English and Math standards. 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 laboratory (5 week course).*

NURS 100 2.0 Units

Exploring Health Occupations

Course Advisories: SCC minimum English and math standards. Explores the diversity of health care occupations currently available and is intended for students considering a health care career. Examples of health occupations include: certified nursing assistant (CNA), respiratory therapist, physician & physician assistant, nursing (LVN & RN), biotechnology technician, emergency medical technician (EMT I), paramedic (EMT P), radiology technician, physical therapist & assistant, pharmacist & pharmacy technician. Students compare and contrast various health occupation(s) in terms of the personal and professional attributes for the job, specific job skills needed, basic educational preparation and potential for advancement. In addition to classroom discussions and library research, students interview people in health care jobs, go on field trips to health care facilities and evaluate the health occupations that most interest them. *Four hours lecture (9 week course).*

NURS 101 3.0 Units

Preparation For Nursing

Course Advisories: SCC minimum English and math standards. 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.*

NURS 102 1.0 to 4.0 Units

Nursing Work Study

Prerequisite: NURSE 54, 55 and authorization by Dean to enroll. NOTE: One to four units of workstudy experience at a ratio of 1 unit=75 paid hours or 60 unpaid hours. No student will be allowed to enroll for more than four units per semester. Course Advisories: SCC minimum English and math standards. This work-study course is offered through Solano Community College Associate Degree Nursing Program in cooperation with selected clinical agencies. Students apply previously learned nursing theory and clinical skills in assigned patient care settings under the direct supervision of selected RN nurse preceptors. The work experience is supervised by a Solano Community College Nursing Instructor and the clinical agency coordinator. Student functions will include clinical skills in which previous training and competency in skill performance has already been demonstrated and documented on the student's skills competency checklist. This course is a credit/no credit course. Repeatable to a maximum of twelve units. Combined units for all work experience courses shall not exceed 12. *Five to nineteen hours by arrangement.*

NURS 111 3.0 Units

Medical Terminology

Course Advisories: SCC minimum English and math standards. 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.*

Nursing

- 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. 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 a "C" or better to pass the class. *Five hours lecture, fifteen hours lab.* (8 week course)
- NURS 148N** **1.5 Units**
NCLEX-RN Exam Preparation Course
Prerequisite: Authorization of Dean to enroll. *Course Advisories:* 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. Credit/no credit only. *Three hours lecture.*
- NURS 159** **3.5 Units**
Career Mobility Transition
Prerequisites: Current LVN Licensure and acceptance into the ADN Program; authorization to enroll. *Course Advisories:* SCC minimum English and math standards. 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 per week* (8 week course).
- NURS 200** **6.0 Units**
Certified Nursing Assistant And Home Health Aide
Course Advisories: SCC minimum English and math standards. Prepares the student to function in the role of Certified Nursing Assistant in the acute care, long-term care, and home health settings. Upon completion, the student is eligible to take the state CNA examination. *Five hours lecture, fifteen hours lab* (10 week course).
- NURS 219** **2.0 Units**
Cardiac Rhythms
Prerequisites: BIO 004, BIO 005. *Course Advisories:* SCC minimum English and math standards. 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 per week* (8 week course).
- NURS 223** **4.0 Units**
Critical Care Nursing
Prerequisites: RN or LVN Licensure and NURSE 219. *Course Advisories:* SCC minimum English and math standards. 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
Prerequisites: RN or LVN licensure and NURSE 219. *Course Advisories:* SCC minimum English and math standards. 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.*
- NURS 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. Announcements of Special Topics courses appear in the Schedule of Classes.

Nutrition

NUTR 010 Nutrition <i>Course Advisory: Eligibility for ENGL 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.</i>	3.0 Units	NUTR 053 Child Health, Safety, and Nutrition <i>Course Advisories: 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.</i>	3.0 Units
NUTR 012 Evaluating Current Topics in Nutrition <i>Course Advisories: Eligibility for ENGL 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. Repeatable 3 times. One-half to two hours lecture.</i>	.5 to 2.0 Units	NUTR 101 Food Service Sanitation <i>Course Advisories: SCC minimum English and math standards. Covers the principles of food microbiology in a foodservice setting, important food-borne diseases, knowledge of standards and public health laws enforced by regulatory agencies, knowledge of applied measures for the prevention of food-borne diseases and other microbiological problems. The Hazardous Analysis Critical Control Point system will be included. Students who complete the course will be ready to take the ServSafe test. The ServSafe test is optional and will be given at the end of the course for those students desiring certification. Note: Course must be repeated every three years for food handler certification. Four hours lecture (8 week course).</i>	2.0 Units
NUTR 051 Nutrition Basics for Children <i>Course Advisories: SCC minimum English and math standards. Nutrient requirements and meal planning for children from the prenatal period through school age. Course emphasis is placed on identifying nutrition problems common in children and developing strategies that can help prevent these problems. One hour lecture.</i>	1.0 Unit		
NUTR 052 Child Nutrition For Early Childhood Education <i>Course Advisory: SCC minimum English standard. Nutritional assessment, meal planning and meal service for children. Also addresses the topic of food safety and sanitation. Course emphasis is placed on maintaining the optimal health, safety and nutritional status of children in group care. One hour lecture.</i>	1.0 Unit		

Occupational Education

Description

OCED 090 and 091 are 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.

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.

OCED 090

1.0 to 8.0 Units

Occupation Work Experience

Corequisite: Student must be enrolled in 7 units (including Occupational Work Experience). Student must be available to work 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 Advisories: SCC minimum English and Math standards. To qualify for Occupational Work Experience credit, the student must be available to work from 5 to 40 hours per week for a licensed business in a job directly related to the declared major. Student will attend a weekly coordination seminar, develop job-oriented objectives and remain currently enrolled in at least 7 units including Occupational Work Experience. Includes all occupational education certificate and degree programs. Qualified students who are not working 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. Students enrolled in OCED 090 may not enroll in OCED 091 during the same semester. Repeatable to a maximum of 16 units. Combined units in all work experience courses shall not exceed 16. Note: CSU will accept up to 12 units for transfer. To determine the correct course length and 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
4 units = 20 hours per week
5 units = 25 hours per week
6 units = 30 hours per week
7 units = 35 hours per week
8 units = 40 hours per week

12-Week Sections

1 unit = 7 hours per week
2 units = 14 hours per week
3 units = 19 hours per week
4 units = 25 hours per week
5 units = 32 hours per week
6 units = 38 hours per week

8-Week Sections

1 unit = 10 hours per week
2 units = 19 hours per week
3 units = 28 hours per week
4 units = 38 hours per week

*unpaid work requires fewer hours per week

OCED 091

1.0 to 6.0 Units

General Work Experience

Corequisite: Student must be enrolled in 7 units (including Work Experience). 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 Advisories: SCC minimum English and Math standards. To qualify for General Work Experience credit, the student must be available to work from 5 to 30 hours per week at a job with a licensed business. Student will attend a weekly coordination seminar, develop job-oriented objectives and remain currently enrolled in at least seven units, including General Work Experience. Includes all occupational education certificate and degree programs. Qualified students who are not working 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 6 units per semester. Students enrolled in OCED 091 may not enroll in OCED 090 during the same semester. Repeatable to a maximum of 6 units. Combined units in all work experience courses shall not exceed 16. Note* CSU will accept up to 12 units for transfer. To determine the correct course length and 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
4 units = 20 hours per week
5 units = 25 hours per week
6 units = 30 hours per week

12-Week Sections

1 unit = 7 hours per week
2 units = 14 hours per week
3 units = 19 hours per week
4 units = 25 hours per week

8-Week Sections

1 unit = 10 hours per week
2 units = 19 hours per week
3 units = 28 hours per week

*unpaid work requires fewer hours per week

Occupational Education

OCED 101

1.0 Unit

Occupational Soft Skills

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. 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 weeks)

Office Technology

Program Description

Students may select from four programs in Office Technology: Administrative Assistant, Legal Specialist, Medical Office Specialist, Medical Transcription Specialist. These programs are designed to develop a management support person with technical and communication skills. Time-management and problem-solving abilities are emphasized along with a “team member” approach for a career in today’s business environment.

Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement in Administrative Assistant, Legal Specialist, medical Office Specialist, or Medical Transcription Specialist can be obtained upon completion of the courses in the selected major. The Associate in Science Degree in Business-Office Technology can be obtained upon completion of 60 units, including the required courses in the selected 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 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. Analyze and evaluate records management concepts and practices and be able to make recommendations.
4. Develop a high degree of competency and a broad knowledge of skills as they relate to general office procedures.

Administrative Assistant	Units
CIS 066 Microsoft Word	3
OT 055 Intermediate Keyboarding/ Word Processing.	1 - 3
CIS 001 Introduction to Computer Science.	3
<i>or</i>	
CIS 050 Microcomputer Applications	3
BUS 092 Business Communication	3
CIS 073 Microsoft Excel	3
OT 159 Filing and Records Management	2
OT 151 Office Systems & Procedures	3
OCED 090 Occupational Work Experience	1 - 8
CIS 091 Microsoft Outlook	1.5
CIS 090 Introduction to PowerPoint	1.5
OT 056 Advanced Keyboarding/Word Processing . . .	1 - 3
OT 162 Ten-Key 1	
Electives selected from the list of Recommended Electives	3.5
Total Units	31.5

- Recommended Electives:**
- ACCT 180 Introduction to Accounting
 - CIS 055 MS Windows Operating Systems
 - CIS 061 Creating Web Pages
 - CIS 078 Access -Database Management System
 - CIS 093 MS Publisher
 - MGMT 055 Management/Leadership Skills
 - OCED 090 Occupational Work Experience
 - OCED 091 General Work Experience
 - OT 057 Legal Keyboarding/Word Processing
 - OT 131 Legal Transcription
 - OT 160 Business Transcription

Office Technology

Legal Specialist

Required Courses	Units
OT 055 Intermediate Keyboarding/ Word Processing	1 - 3
OT 057 Legal Keyboarding/Word Processing	3
CIS 063 WordPerfect	3
<i>or</i>	
CIS 066 Microsoft Word	3
BUS 092 Business Communication	3
BUS 018 Legal Environment of Business	3
OT 131 Legal Transcription	3
CJ 001 Introduction to Criminal Justice	3
OT 056 Advanced Keyboarding/Word Processing	1 - 3
OT 159 Filing and Records Management	2
OT 151 Office Systems & Procedures	3
OCED 090 Occupational Work Experience	1 - 8
CIS 091 Microsoft Outlook	1.5
Total Units	31.5

Recommended Electives:

ACCT 180 Introduction to Accounting
 CIS 073 Microsoft Excel
 CIS 078 Access -Database Management System

Medical Office Specialist

Required Courses	Units
NURS 111 Medical Terminology	3
OT 059 Medical Keyboarding and Computer Applications	3
CIS 066 Microsoft Word	3
OT 101 Study of Human Diseases for Medical Assistants	3
BUS 092 Business Communication	3
OT 159 Filing and Records Management	2
OT 063 * Introduction to ICD-9-CM Coding	3
OT 064 Intermediate ICD-9-CM Coding	3
OT 066 ** CPT-IV Coding	3
OT 151 Office Systems & Procedures	3
OCED 090 Occupational Work Experience	1 - 8
OT 055 Intermediate Keyboarding/ Word Processing	1 - 3
Total Units	33

Recommended Electives:

ACCT 180 Introduction to Accounting
 CIS 001 Introduction to Computer Science
or
 CIS 050 Microcomputer Applications
 CIS 073 Microsoft Excel
 CIS 078 Access -Database Management System
 CIS 090 Introduction to PowerPoint
 CIS 091 Microsoft Outlook
 MGMT 055 Management/Leadership Skills
 OCED 090 Occupational Work Experience
 OT 056 Advanced Keyboarding/Word Processing
 OT 121 Medical Transcription I

Retail Clerk Job-Direct Certificate

The required courses must be completed with a grade of "C" or better

Required Courses	Units
MKT 174 Retail Merchandising	3
BUS 181 Business Mathematics	1
ENGL 310 Writing Skills Lab	1.5
ENGL 320 Reading Improvement Lab	1.5
BUS 100 Work Readiness	1.5
OT 162 Ten-Key	1
Total Units	9.5

Office Technology

Medical Transcription Specialist

	Units
CIS 066 Microsoft Word	3
OT 055 Intermediate Keyboarding/ Word Processing.	1 - 3
NURS 111 Medical Terminology	3
OT 059 Medical Keyboarding and Computer Applications	3
OT 101 Study of Human Diseases for Medical Assistants	3
OT 121 Medical Transcription I	3
OT 122 Medical transcription II	3
OT 123 Medical Transcription III	3
OT 124 Medical Transcription IV	3
OT 160 Business Transcription	3
Electives selected from the list of Recommended Electives	3
Total Units	33

Recommended Electives:

- OT 056 Advanced Keyboarding/Word Processing
- OT 063 Introduction to ICD-9-CM Coding
- OT 064 Intermediate ICD-9-CM Coding
- OT 066 CPT-IV Coding
- OT 100 Skill Building on the Computer Keyboard
- OCED 090 Occupational Work Experience

General Office Assistant Job-Direct Certificate

The required courses must be completed with a "C" or better.

Required Courses	Units
OT 054 Beginning Keyboarding	3
BUS 100 Work Readiness	1.5
CIS 066 Microsoft Word	3
CIS 091 Microsoft Outlook	1.5
CIS 090 Introduction to PowerPoint	1.5
CIS 073 Microsoft Excel	3
OT 162 Ten-Key 1	
Total Units	14.5

Legal Office Assistant Job-Direct Certificate

The required courses must be completed with a grade "C" or better.

Required Courses	Units
OT 055 Intermediate Keyboarding/Word Processing . . .	3
BUS 100 Work Readiness	1.5
CIS 063 WordPerfect.	3
<i>or</i>	
CIS 066 Microsoft Word	3
OT 057 Legal Keyboarding/Word Processing	3
OT 131 Legal Transcription.	3
OT 162 Ten-Key 1	
Total Units	14.5

Office Technology

Medical Front Office Clerk Certificate of Achievement

The goal of this program is to prepare students to enter the health care industry at an entry level position in two semesters. The program requires students to successfully complete 21.5 units during two consecutive semesters. Students enroll as a group and progress through each class in the program together.

Certificate of Achievement

A Certificate of Achievement can be obtained upon completion of the 21.5 unit major below.

Program Outcomes

Students who complete a Certificate of Achievement will be able to:

1. Demonstrate alpha and numeric keyboarding skills at 35 wpm with established accuracy.
2. Demonstrate computer literacy and word processing skills related to formatting business documents
3. Understand and apply medical terminology for human diseases.
4. Understand how 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. Have the necessary soft skills to apply and find employment and keep it

Semester 1	Units
CIS 102 Fast Track Microsoft Word	0.5
CIS 105 Fast Track Excel	0.5
CIS 106 Fast Track Computer Literacy	1
NURS 111 Medical Terminology	3
OT 055 Intermediate Keyboarding/Word Processing	1
OT 060 Administrative Medical Assistant	3
Total Units	9

Semester 2	Units
BUS 100 Work Readiness	1.5
OT 056 Advanced Keyboarding/Word Processing	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	12.5

*Courses should be taken in sequence.

OT 054 1.0 to 3.0 Units

Beginning Keyboarding

Course Advisory: SCC minimum English standard. An individualized beginning keyboarding course taught on the microcomputer. Touch typing is developed on the alphabet, punctuation, symbols, and top row number keys. Speed will be built to a minimum of 30 words per minute. Units of study include production of documents such as correspondence, memos, reports, and tables in standard formats. This is an open entry/open exit course. May be repeated to a maximum of 3 units, including initial enrollment. *Three hours lecture, two hours lab.*

OT 055 1.0 to 3.0 Units

Intermediate Keyboarding/Word Processing

Prerequisites: Completion of all modules of OT 054 or passing the OT 055 placement test; concurrent enrollment or successful completion of CIS 063 or CIS 066. *Course Advisory:* SCC minimum English standard. Individualized keyboarding course using a microcomputer 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. Students may enroll throughout the semester as space is available. This is an open entry/open exit course. May be repeated to a maximum of 3 units, including initial enrollment. *Three hours lecture, two hours lab.*

OT 056 1.0 to 3.0 Units

Advanced Keyboarding/Word Processing

Prerequisites: Completion of all modules of OT 055 with a grade of 'C' or 'CR' or better; or pass placement test. *Course Advisories:* SCC minimum English and math standards. This advanced, individualized applications course is designed to prepare students for professional work in the secretarial field with a heavy emphasis on word processing applications using a microcomputer. Speed will be built to a minimum of 50 words per minute. This is an open entry/open exit course. May be repeated to a maximum of 3 units, including initial enrollment. *Three hours lecture, two hours lab.*

OT 057 3.0 Units

Legal Keyboarding/Word Processing

Prerequisites: Completion of all modules of OT 055 with a grade of 'C' or 'CR' or better and ability to keyboard at 50 wpm. *Course Advisory:* SCC minimum English standard. Concentrated study of legal terminology combined with practice in the constructions of legal documents and skill development in keyboarding legal forms necessary for optimal performance in the legal office. Units of study include: civil litigation, family law, and partnerships and corporations. *Three hours lecture, two hours lab.*

Office Technology

- OT 059** **3.0 Units**
Medical Keyboarding And Computer Applications
Prerequisites: Completion of all modules of OT 054 with a grade of 'C' or 'CR' or better or passing the OT 059 placement test; and Nursing 111 (or concurrent enrollment).
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 Advisories: Eligibility for ENGL 001 and SCC minimum Math standards. This course introduces the student to the responsibilities of an Administrative Medical Office Assistant including: HIPPA (legal and ethical considerations), interpersonal-skills, scheduling appointments in person and by telephone, records and file management, written communications, and financial duties. 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.*
- OT 061** **3.0 Units**
Health Insurance
Course Advisories: Eligibility for ENGL 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 procedures 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-9-CM Coding
Prerequisites: OT 101; NURSE 111. *Course Advisory:* SCC minimum English standard. Introductory course in the basic principles of coding disease and procedures using the International Classification of Disease, 9th Edition Clinical Modification (ICD-9-CM) and ICD-9-CM coding handbook for entry-level coders. Current ICD-9-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-9-CM Coding
Prerequisites: OT 063 (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-9-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
Prerequisites: NURSE 111, OT 101. *Course Advisories:* 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 Advisories: 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. This is an open entry/open exit course. *One hour lecture, one half hour lab.*
- 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 109** **.5 Unit**
Fast Track Records Control/Filing
Course Advisories: SCC minimum English and math standards. Introduction to the process of grouping, organizing and storing business records using ARMA (American Records Management Association) rules for document filing. This is a credit/not credit only course. *Eight hours lecture (1 week course).*

Office Technology

OT 121 Medical Transcription I <i>Prerequisite: Successful completion of OT 055 or OT 056 or a keyboarding speed of 40 wpm (to be verified by placement test) with microcomputer word processing skills; NURSE 111 (or concurrent enrollment) or successful completion of a medical terminology exam. Course Advisory: SCC minimum English standard.</i> Provides practice on recorded material stressing terminology from medical reports covering emergency services admission reports, history and physicals, radiology, operations, pathology, discharge summary, outpatient medical reports, death summary and autopsy using a microcomputer and word processing software. <i>Three hours lecture, two hours lab.</i>	3.0 Units	OT 151 Office Systems & Procedures <i>Prerequisites: Typing rate of 50 words per minute and microcomputer word processing skills. Corequisite: One unit of OCCED 90. Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three hours lecture.</i>	3.0 Units
OT 122 Medical Transcription II <i>Prerequisite: OT 121.</i> Vocabulary building and transcription of medical records in specialty areas of cardiology, endocrinology, gastroenterology, gynecology, internal medicine, and oncology. <i>Three hours lecture, two hours lab.</i>	3.0 Units	OT 159 Filing & Records Management <i>Course Advisory: SCC minimum English standard.</i> Designed to introduce the systems approach of records management using both manual and automated equipment. Topics covered include creation, storage (alphabetic, numeric, geographic, and subject methods), protection, evaluation, control, use, and disposition of the records. <i>Two hours lecture.</i>	2.0 Units
OT 123 Medical Transcription III <i>Prerequisites: OT 122. Course Advisory: SCC minimum English standard.</i> Vocabulary building and transcription of medical reports in specialty areas of radiology, psychiatry, neurology and neurosurgery, emergency medicine, laboratory medicine, and general surgery. <i>Three hours lecture, two hours lab.</i>	3.0 Units	OT 160 Business Transcription <i>Prerequisites: OT 55 or OT 56 or a keyboarding speed of 40 wpm (to be verified by placement test) and CIS 63 or CIS 66 with a grade of 'C' or better. Course Advisory: SCC minimum English standard.</i> Emphasizes proficiency in transcribing from machine dictation. Develops the coordination of keyboarding, business English, and proofreading skills while transcribing documents from a variety of businesses. <i>Three hours lecture, two hours lab.</i>	3.0 Units
OT 124 Medical Transcription IV <i>Prerequisites: OT 123. Course Advisory: SCC minimum English standard.</i> Vocabulary building and transcription of medical reports in specialty areas of orthopedics, pediatrics, respiratory and pulmonary medicine, immunology and AIDS, plastic surgery, and urology. <i>Three hours lecture, two hours lab.</i>	3.0 Units	OT 162 Ten-Key <i>Course Advisories: SCC minimum English and math standards.</i> 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. This is an open entry/open exit course. <i>One hour lecture, one-half hour lab.</i>	1.0 Unit
OT 131 Legal Transcription <i>Prerequisite: OT 55 or OT 56 or a keyboarding speed of 40 wpm (to be verified by placement test) and CIS 63 or CIS 66 with a grade of 'C' or better. Course Advisory: SCC minimum English standard.</i> Concentrated course designed to familiarize the student with terminology, background, and knowledge of procedures necessary for work in a law office. The legal system is studied through the court structure, legal documents, and the specialty areas including family law, wills and probate, corporations, real estate, bankruptcy, and criminal law. Proficiency in transcribing from machine dictation is emphasized along with the integration of technical skills. <i>Three hours lecture, two hours lab.</i>	3.0 Units	OT 170 Creating a Virtual Office <i>Course Advisory: SCC minimum English and math standards.</i> OT 170 explores issues of creating a virtual office, time management, customizing the workplace environment, evaluating and buying technology, communicating with technology, and business ethics as a virtual professional. In addition the student will explore issues of creating a virtual office (home based or small office), customizing the workplace environment, the economics of working from home and telecommuting as independent contractors. This is a Pass/No Pass course. <i>Three lecture hours.</i>	3.0 Units

Office Technology

OT 171

3.0 Units

Marketing a Virtual Office

Course Advisory: SCC minimum English and math standards. OT 171 will enable the student to market the student's learned skills, experience & knowledge and to "package" in a manner to obtain the best possible virtual (home based) employment position. Student will create a professional marketing plan covering the four Ps: Product, Price, Place (distribution), & Promotion The course is a requirement of the Business Office Technology Department's Virtual Assistant Program. Businesses all over the world are choosing to contract out (outsource) their non core competencies, in many cases to VA's or Virtual Professionals. This is a Pass/No Pass course. *Three lecture hours.*

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 031

3.0 Units

Introduction to World Religions of the East

Course Advisory: SCC minimum English standard.

Introduction to a comparative study of world religions of the East including Hinduism, Buddhism, Jainism, Sikhism, Confucianism, Daoism and Shinto. Emphasis is on analysis of origin and historical background, founders, beliefs and practices, impact on culture and society, and contemporary issues. *Three hours lecture.*

PHIL 032

3.0 Units

Introduction to World Religions of the West

Course Advisory: SCC minimum English standard.

Introduction to a comparative study of world religions of the West including North American Indian, African, Greek and Roman, Mesopotamian and Zoroastrianism, Judaism, Christianity, and Islam. Emphasis is on historical background, founders, beliefs and practices, impact on culture and society, and contemporary issues. *Three hours lecture.*

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 Arts Degree

A Certificate of Achievement can be obtained upon completion of the 34-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 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 030 Beginning Photography	3
PHOT 053 Introduction to Color Photography	3
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 170 Beginning Digital Imaging	3
ART 006 Design Principles in 2-Dimensions	3
Select three units from the electives below	3
Total Units	34

Recommended Electives

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
MGMT 184 Small Business Management and Planning	3
MKT 171 Introduction to Marketing	3
OCED 090 Occupational Work Experience	1 - 8
PHOT 035 Art of Photography	3
PHOT 052 Alternative Photography	3
PHOT 054 Intermediate Color Photography	3
PHOT 058 Advanced Black and White Photography	3
PHOT 059 Color Portfolio	3

Select 3 units from one of the following

PHOT 056 Photojournalism & Documentary Photography	3
PHOT 031 Intermediate Photography	3
PHOT 057 Special Projects	3
PHOT 155 Professional Photography:	
Travel Photography	1.5 -3

Photography, Professional

Camera equipment for photography classes is not provided by the College. Students registering for these courses must have available a 35mm 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 11. 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 Advisories: 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** **.5 Unit**
Photography Laboratory
Corequisite: 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. Repeatable 3 times. *One and one-half to Three hours lab.* This is an open entry / open exit, pass / no pass only course. (Formerly PHOT 148)
- 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. Repeatable 1 time. *Two hours lecture, three hours lab.*
- PHOT 053** **3.0 Units**
Introduction to Color Photography
Course Advisories: SCC minimum English and math standards. Introduction to the theory, materials and techniques of color photography. Includes photography theory and application for transparencies, printmaking, finishing and color portfolio. Some out of class camera assignments utilizing color slide film are included. Both transparency and negative films will be explained. *Two hours lecture, three hours lab.*
- PHOT 056** **3.0 Units**
Photojournalism and Documentary Photography
Prerequisite: PHOT 030 or PHOT 070. Course Advisory: Eligibility for ENGL 001. Covers aspects of the camera as a editorial, journalistic and documentary tool. To be applied to various media outlets including newspaper, magazine and world wide web. A camera is not provided by the College for this course. SLR Film or SLR Digital camera is required. Repeatable 1 time. *Two hours lecture, three hours lab.*
- 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. PHOT 030 or PHOT 035. 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. Repeatable 1 time. *Two hours lecture, three hours lab.*

Photography, Professional

- PHOT 071** 3.0 Units
Digital Imaging I
Prerequisite: PHOT 070. Course Advisory: Eligibility for ENGL 001 and 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. Repeatable 1 time. *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. Repeatable one time. *Two hours lecture, three hours activity.*
- PHOT 099** 1.0 to 3.0 Units
Photography Honors
Prerequisites: 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; and permission of the Division 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. Repeatable 1 time. *Three to nine hours weekly by arrangement.*
- PHOT 151** 4.0 Units
Professional Photography: Introduction
Prerequisite: PHOT 030 or PHOT 070. Course Advisories: Eligibility for ENGL 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 Advisories: Eligibility for ENGL 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. Repeatable 1 time. *Two hours lecture, six hours lab.*
- PHOT 153** 4.0 Units
Professional Photography: Product and Advertising
Prerequisite: PHOT 030 or PHOT 070. Course Advisories: Eligibility for ENGL 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. Repeatable 1 time. *Two hours lecture, six hours lab.*
- PHOT 154** 4.0 Units
Professional Photography: Interior & Exterior
Prerequisite: PHOT 030 or PHOT 070. Course Advisories: Eligibility for ENGL 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. Repeatable 1 time. *Two hours lecture, six hours lab.*
- PHOT 155** 1.5 to 3.0 Units
Professional Photography: Travel Photography
Course Advisories: 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. Repeatable 3 times. *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 weeks 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. Repeatable 3 times. *Two hours lecture, three hours lab.*
- PHOT 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. Announcements of Special Topics courses appear in the Schedule of Classes.

Physical Education/Health/Athletics

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

PE 020A Foundations of Physical Education	3
PE 020H Care and Prevention of Athletic Injuries.	3
PE 020S Advanced First Aid and Emergency Care	2
PE 020V Introduction to Sports Science	3
PE Activity Courses *	6
BIO 004 Human Anatomy	5
BIO 005 Introductory Physiology	5
HED 002 Health Education	3
<i>or</i>	
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, 002C, 002D, 002E), Combatives (003A, 003C, 003D, 003E), Dance (004A, 004B, 004C, 004D, 004E, 004H, 004J, 004K, 004N), Fitness Courses (005A, 005B, 005C, 005G, 005H, 005J, 005K, 005M, 005N, 005P, 006A, 006E, 006F, 006C, 078), Individual sports (007A, 007C, 007D, 007E, 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
 - PE 004F Hip-Hop Dance
 - PE 004M Intermediate Ballet
 - PE 005D Circuit Training
 - PE 006F Intermediate Yoga
 - PE 007B Beginning Road Bicycling
 - PE 020W Concepts of Physical Fitness
 - PE 020D Baseball Theory and Practice I
and
 - PE 020E Baseball Theory and Practice II
 - PE 020F Football Theory and Practice I
and
 - PE 020G Football Theory and Practice II
 - PE 020P Softball Theory and Practice I
and
 - PE 020J Softball Theory and Practice II
 - PE 020M Volleyball Theory and Practice I
and
 - PE 020N Volleyball Theory and Practice II
 - PE 020Q Soccer Theory and Practice I
and
 - PE 020R Soccer Theory and Practice II
 - PE 020X Basketball Theory and Analyses I
and
 - PE 020Y Basketball Theory and Analyses II
 - PE 048G Performance Dance Ensemble
 - PE 055 Sports Medicine- Athletic Training Internship/Practicum
 - PE 057 Introduction to Sports Psychology
 - PE 071 Back Care and Injury Management
- Any activity course listed above not used to satisfy requirements of the major.
- SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict

Physical Education/Health/Athletics

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 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

PE 020A Foundations of Physical Education	3
PE 020H Care and Prevention of Athletic Injuries.	3
PE 020S Advanced First Aid and Emergency Care	2
PE 020V Introduction to Sports Science	3
PE 020W Concepts of Physical Fitness	3
PE 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, 002C, 002D, 002E), Combatives (003A, 003C, 003D, 003E), Dance (004A, 004B, 004C, 004D, 004F, 004H, 004J, 004K, 004N), Fitness Courses (005A, 005B, 005C, 005G, 005H, 005J, 005K, 005M, 005N, 005P, 006A, 006E, 006F, 006C, 078), Individual Sports (007A, 007C, 007D, 007E, 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
MATH 011 Elementary Statistics
PE 055 Sports Medicine—Athletic Training
Internship/Practicum
PE 057 Introduction to Sports Psychology
PSYC 020 Personal and Social Behavior

Physical Education/Health/Athletics

Fitness Professional Job-Direct Certificate

The required courses must be completed with a grade of "C" or better.

Required Courses	Units
PE 020S Advanced First Aid and Emergency Care	2
PE 020W Concepts of Physical Fitness	3
PE 020V Introduction to Sports Science	3
NUTR 010 Nutrition.	3
PE 005J Beginning Body Conditioning	1
<i>or</i>	
PE 005K Intermediate Body Conditioning	1
5 additional units from the following list:	*5

*At least one activity course selected from four of the seven listed categories: Aquatics (002A, 002B, 002C, 002D, 002E), Combatives (003A, 003C, 003D, 003E), Dance (004A, 004B, 004C, 004D, 004F, 004H, 004J, 004K, 004N), Fitness Courses (005A, 005B, 005C, 005G, 005H, 005J, 005K, 005M, 005N, 005P, 006A, 006E, 006F, 006C, 078), Individual Sports (007A, 007C, 007D, 007E, 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**
Health Education

Course Advisories: 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**
Womens Health Issues

Course Advisories: 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.*

Adapted Physical Education

Courses numbered 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 the Enabling Office prior to registration.

PE 001A **1.0 or 1.5 Units**
Adapted Aquatics

Prerequisites: 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. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

PE 001D **1.0 or 1.5 Units**
Adapted Weight Training

Prerequisites: 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. *One-half hour lecture, one and one-half hour or two and one-half hours activity*

Physical Education/Health/Athletics

Physical Education

PE 002A 1.0 or 1.5 Units Beginning Swimming

Course Advisories: 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. Repeatable 2 times. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

PE 002B 1.0 or 1.5 Units Intermediate Swimming

Prerequisite: PE 002A. Course Advisories: SCC minimum English and math standards. Covers the intermediate techniques of swimming, terminology, and fluid mechanics. Swimming strokes include the 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. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

PE 002C 1.0 or 1.5 Units Water Polo

Course Advisory: SCC minimum English and math standards. A coeducational course that includes the fundamental skills, game strategies, and rules of water polo. Offensive and defensive strategies are practiced in preparation for team play. Skills exams and written exams serve to evaluate student achievement. Repeatable 3 times. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

PE 002D 1.5 or 2.0 Units Swim For Fitness

Course Advisories: 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. Repeatable 3 times. *One hour lecture, one or two hours activity.*

PE 002E 1.0 or 1.5 Units Aqua Aerobics

Course Advisories: 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. Repeatable 3 times. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

PE 003A 1.0 or 1.5 Units Beginning Self Defense

Course Advisories: 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. Repeatable 3 times. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

PE 003C 1.0 or 1.5 Units Foil Fencing

Course Advisories: 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. This course is recommended for Theatre Arts majors. Repeatable 3 times. *One half hour lecture and one and one half hours activity or one half lecture and two and one hours activity.*

PE 003D 1.0 or 1.5 Units Beginning Judo

Course Advisories: 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. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 003E 1.0 or 1.5 Units Intermediate Judo

Prerequisite: PE 003D. Course Advisories: 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. *One-half hour lecture, one and one-half or two and one-half hours activity.*

Physical Education/Health/Athletics

PE 004A Beginning Modern Dance <i>SCC minimum English and math standards.</i> An introduction to basic modern dance techniques, terminology, and rhythmic structure. Students will study posture and alignment for dance, alignment reference points and basic postural muscles. Students will study the basic components of fitness as they relate to dance training and basic health guidelines for nutrition and injury care and prevention. Students will explore a variety of common accompaniments for 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. Repeatable 3 times. <i>One hour lecture, one or two hours activity.</i>	1.5 or 2.0 Units	PE 004D Jazz Dance Technique <i>Prerequisite:</i> PE 004G. <i>Course Advisories:</i> <i>SCC minimum English and math standards.</i> 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. Repeatable 3 times. <i>One hour lecture, one or two hours activity.</i>	1.5 or 2.0 Units
PE 004B Beginning Tap Dance <i>Course Advisories:</i> <i>SCC minimum English and math standards.</i> 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. Repeatable 2 times. <i>One hour lecture, one or two hours activity.</i>	1.5 or 2.0 Units	PE 004E Dance Production <i>Course Advisories:</i> <i>SCC minimum English and math standards.</i> 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 Theater Arts majors. Repeatable 3 times. <i>One hour lecture, seven hours lab, one hour weekly by arrangement.</i>	3.0 Units
PE 004C Intermediate Tap Dance <i>Prerequisite:</i> PE 004B. <i>Course Advisories:</i> <i>SCC minimum English and math standards.</i> 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. <i>One hour lecture, one or two hours activity.</i>	1.0 or 1.5 Units	PE 004F Hip-Hop Dance <i>Course Advisories:</i> <i>SCC minimum English and math standards.</i> Introduces students to the fundamentals of hip-hop dance style. The students will learn the fundamentals of today's dances that are commonly used in music videos. Repeatable 3 times. <i>One hour lecture, one or two hours activity.</i>	1.5 or 2.0 Units
		PE 004H Beginning Jazz Dance <i>SCC minimum English and math standards.</i> 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. Repeatable 2 times. <i>One hour lecture, one or two hours activity.</i>	1.5 or 2.0 Units

Physical Education/Health/Athletics

PE 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 and 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. Repeatable 3 times. *One hour lecture, one or two hours activity.*

PE 004K 1.5 or 2.0 Units
Beginning Ballet

Course Advisory: SCC minimum English and math standards. 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. Repeatable 2 times. *One hour lecture, one or two hours activity.*

PE 004M 1.5 or 2.0 Units
Intermediate Ballet

Prerequisite: PE 004K. Course Advisories: 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. *One hour lecture, one or two hours activity.*

PE 004N 1.0 or 1.5 Units
Beginning Swing Dance

Course Advisories: 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. Repeatable 3 times. *One hour lecture, one or two hours activity.*

PE 004P 1.5 or 2.0 Units
Intermediate Jazz Dance

Prerequisite: PE 004H. Course Advisories: 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 patterns dance patterns in preparation for dance composition. Interval skills exams and written exams serve to evaluate student achievement. *One hour lecture, one or two hours activity.*

PE 005A 1.0 or 1.5 Units
Low Impact Aerobic Dance

Course Advisories: SCC minimum English and math standards. Low impact aerobic dance reduces the stress of high intensity aerobics by modifying jumping, hopping and leaping movements generally associated with peak aerobic dance. Students will progress through a complete aerobic work-out, achieving target training zone heart rate through the use of low-impact routine work. 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, class lecture, and participation serve to measure student achievement. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 005B 1.0 or 1.5 Units
Beginning Aerobic Exercise

Course Advisories: SCC minimum English and math standards. A comprehensive fitness program with a focus on aerobic conditioning via choreographed dance exercise patterns set to music. Body toning, strength building and flexibility components of the workout will be included to provide the student with a well-rounded fitness program. Nutrition, body composition, weight control, and basic physiological principles of exercise are included. Fitness exams and written exams, written assignments, class lecture, and participation serve to measure student achievement. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

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- PE 005C** 1.5 or 2 Units
Fitness For Life
Course Advisories: 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 the result of physical conditioning forms the basis for the development of a lifetime fitness plan. Fitness exams and written exams serve to evaluate student achievement. Repeatable 3 times. *One hour lecture, one or two hours activity.*
- PE 005D** 1.0 or 1.5 Units
Circuit Training
Course Advisories: SCC minimum English and math standards. 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. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half activities.*
- PE 005E** 1.0 or 1.5 Units
Cardio Conditioning
Course Advisories: 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. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours lab.*
- PE 005G** 1.0 or 1.5 Units
Off Season Athletic Conditioning
Course Advisories: SCC minimum English and math standards. 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. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 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. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 005K** 1.0 or 1.5 Units
Intermediate Body Conditioning
Prerequisite: PE 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. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 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. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 005N** 1.0 or 1.5 Units
Intermediate Weight Training: An Individual Approach
Prerequisite: PE 005M. Course Advisories: 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. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 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 students with a well-rounded fitness program. Fitness exams, written exams, written assignments, course lecture and/or participation serve to measure student achievement. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

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PE 005Q Elite Fitness Training <i>Course Advisories: SCC minimum English and math standards.</i> Kokoro is “unbeatable spirit” in Japanese. This is the ultimate goal of Elite Fitness Training for the serious person who wants to find the warrior within; it includes training the mind, body, emotions, senses and spirit. <i>One-half hour lecture, one and one-half or two and one-half hours lab.</i>	1.0 or 1.5 Units	PE 006C Pilates For Fitness <i>Course Advisories: SCC minimum English and math standards.</i> A fitness course that utilizes Pilates techniques that can increase strength, flexibility and endurance. Pilates exercises can improve posture, alignment coordination and balance. The course is designed to tone muscles without putting stress on the spine. Repeatable 3 times. <i>One-half hour lecture, one and one-half or two and one-half hours activity.</i>	1.0 or 1.5 Units
PE 005R Core Conditioning Training <i>Course Advisories: SCC minimum English and math standards.</i> Course Description: 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. <i>One-half hour lecture, one and one-half or two and one-half hours lab.</i>	1.0 or 1.5 Units	PE 006E Fundamentals Of Yoga <i>Course Advisories: SCC minimum English and math standards.</i> 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. Repeatable 3 times. <i>One hour lecture, one to two hours activity.</i>	1.5 or 2.0 Units
PE 006A Cardio Kick Boxing <i>Course Advisories: SCC minimum English and math standards.</i> An aerobic exercise program utilizing non-contact kickboxing. Class format includes warm-up, pre-aerobics, peak aerobics and aerobic cool-down as determined by musical beats per minutes (BPM). Hand weights and step boxes may be used for additional lower and upper body strength and conditioning. A flexibility cool-down will conclude the exercise session. Repeatable 3 times. <i>One-half hour lecture, one and one-half or two and one-half hours activity.</i>	1.0 or 1.5 Units	PE 006F Intermediate Yoga <i>Prerequisite: PE 006E. Course Advisories: SCC minimum English and math standards.</i> This course will expand upon the techniques and philosophies of beginning yoga. Students will be exposed to advanced postures, various specific yoga systems and additional philosophies of yoga from the masters. <i>One hour lecture, one to two hours activity.</i>	1.5 or 2.0 Units
PE 006B Introduction to Qigong <i>Course Advisories: SCC minimum English and math standards.</i> 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. Repeatable 3 times. <i>One-half hour lecture, one and one-half or two and one-half hours activity.</i>	1.0 or 1.5 Units	PE 006G Tai Chi <i>Course Advisories: SCC minimum English and math standards.</i> 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 meditating concepts as related to Tai Chi and health and wellness are covered. Repeatable 3 times. <i>One-half hour lecture, one and one-half or two and one-half hours lab.</i>	1.0 or 1.5 Units
		PE 007A Beginning Bowling <i>Course Advisories: SCC minimum English and math standards.</i> 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. Repeatable 3 times. <i>One-half hour lecture, one and one-half or two and one-half hours activity.</i>	1.0 or 1.5 Units

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PE 007B 1.0 or 1.5 Units
Beginning Road Bicycling

Course Advisories: 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. Repeatable 3 times. *One-half hour lecture, one and one-half or Three hours lab.*

PE 007C 1.0 or 1.5 Units
Beginning Mountain Biking

Course Advisories: 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. Repeatable 3 times. *One hour lecture, one or two hours activity.*

PE 007D 1.0 or 1.5 Units
Beginning Golf

Course Advisories: SCC minimum English and math standards. Provides instruction and practice in fundamental golf strokes with irons and woods. Rules, etiquette, and selection and care of equipment are included. Interval skills exams and written exams serve to evaluate the student achievement. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 007E 1.0 or 1.5 Units
Intermediate Golf

Prerequisite: PE 007D. Course Advisories: SCC minimum English and math standards. Provides instruction and practice in intermediate-level golf skills and strategies. Scoring, handicapping, rules, and etiquette are included in addition to municipal golf course play and class competitions. Interval skills exams and written exams serve to evaluate student achievement. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 007F 1.0 or 1.5 Units
Beginning Archery

Course Advisories: 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. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 008A 1.0 or 1.5 Units
Beginning Tennis

Course Advisories: 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. Skill exams and written exams serve to evaluate student achievement. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 008B 1.0 or 1.5 Units
Intermediate Tennis

Prerequisite: PE 008A. Course Advisories: 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. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 008C 1.0 or 1.5 Units
Beginning Racquetball

Course Advisories: 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. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 008E 1.0 or 1.5 Units
Beginning Badminton

Course Advisories: 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. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

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- PE 008F** 1.0 or 1.5 Units
Intermediate Badminton
Prerequisite: PE 008E. *Course Advisories:* 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 midcourt; 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. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 009A** 1.0 or 1.5 Units
Beginning Basketball
Course Advisories: 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. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 009B** 1.0 or 1.5 Units
Indoor/Outdoor Soccer
Course Advisories: 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. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 009C** 1.0 or 1.5 Units
Intermediate Soccer
Prerequisite: PE 009B. *Course Advisories:* SCC minimum English and mathematics 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. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 009E** 1.0 or 1.5 Units
Intermediate Basketball
Prerequisite: PE 009A. *Course Advisories:* 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. Skills exams and written exams serve to evaluate student achievement. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 009F** 1.0 or 1.5 Units
Beginning Baseball
Course Advisories: 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. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 009G** 1.0 or 1.5 Units
Softball
Course Advisories: 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. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 009H** 1.0 or 1.5 Units
Beginning Volleyball
Course Advisories: SCC minimum English and math standards. Covers the basic skills: serve, pass, set, spike and block. Skills 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. Repeatable 2 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 009P** 1.0 or 1.5 Units
Intermediate Volleyball
Prerequisite: PE 009H. *Course Advisories:* SCC minimum English and math standards. Covers the intermediate skills: serve, pass, set, spike 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. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 020A** 3.0 Units
Foundations Of Physical Education
Course Advisories: SCC minimum English and math standards. An introduction to the field of Physical Education as a profession and as an academic discipline. The course covers the purposes, philosophical and historical foundations, biological and biomechanical foundations, and the sociological and psychological foundations of Physical Education. The course also focuses on educational preparation, the job market, and alternative careers in Physical Education. Written exams and writing assignments serve to evaluate student achievement. *Three hours lecture.*

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- PE 020D** **2.0 Units**
Baseball Theory And Practice I
Course Advisories: 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. *One hour lecture, two hours activity.*
- PE 020E** **2.0 Units**
Baseball Theory And Practice II
Course Advisories: SCC minimum English and math standards. A continuation of PE 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 athlete achievement. *One hour lecture, two hours activity.*
- PE 020F** **2.0 Units**
Football Theory And Practice I
Course Advisories: 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. *One hour lecture, two hours activity.*
- PE 020G** **2.0 Units**
Football Theory And Practice II
Course Advisory: SCC minimum English and math standards. Continuation of 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 plan. Skills exams and written exams are used to evaluate student learning. *One hour lecture, two hours activity.*
- PE 020H** **3.0 Units**
Care And Prevention Of Athletic Injuries
Course Advisories: 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. *Three hours lecture.*
- PE 020J** **2.0 Units**
Softball Theory And Practice II
Course Advisories: SCC minimum English and math standards. Continuation of PE 020I. 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. *One hour lecture, two hours activity.*
- PE 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. *One hour lecture, two hours activity.*
- PE 020N** **2.0 Units**
Volleyball Theory And Practice II
Course Advisory: SCC minimum English standard. 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 athlete achievement. *One hour lecture, two hours activity.*
- PE 020P** **2.0 Units**
Softball Theory And Practice I
Course Advisories: 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. *One hour lecture, two hours activity.*
- PE 020Q** **1.5 or 2.0 Units**
Soccer Theory And Practice I
Course Advisories: 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. *One hour lecture, and one to two hours activity.*
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PE 020R Soccer Theory And Practice II <i>Course Advisories: SCC minimum English and math standards; PE 20.24A or equivalent soccer experience.</i> Continuation of PE 20.24A. 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. <i>One hour lecture, and one to two hours activity.</i>	1.5 or 2.0 Units	PE 020Y Basketball Theory And Analyses II <i>Course Advisories: SCC minimum English and math standards.</i> Continuation of PE 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. <i>Two hours lecture, one hour activity.</i>	2.0 Units
PE 020S Advanced First Aid and Emergency Care <i>Course Advisories: SCC minimum English and math standards.</i> 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 and CPR for infants, children, and adults. Required of Physical Education majors and minors. <i>Two hours lecture, one hour lab.</i>	2.0 Units	PE 048G Performance Dance Ensemble <i>Course Advisory: SCC minimum English and math standards,</i> some dance experience is advised. A performance dance ensemble class for the experienced dance student. It is advised that the student have some training in hip-hop, ballet, jazz, 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.	2.5 Units
PE 020V Introduction To Sport Science <i>Course Advisories: SCC minimum English and math standards.</i> A course covering the basic elements of sport sciences including: kinesiology, motor learning, biomechanics, exercise physiology, sports medicine, sport psychology and training theory. <i>Three hours lecture.</i>	3.0 Units	PE 055 Sports Medicine - Athletic Training Internship/Practicum <i>Prerequisites: PE 020H. Course Advisories: SCC minimum English and math standards.</i> Supervised volunteer athletic experience which provides students with the opportunity for immediate recognition and treatment of sports injuries. Emphasis is on taping techniques and rehabilitation which enables athletes to return to competition. (Sports Medicine). Repeatable 3 times. <i>One hour lecture, three hours weekly by arrangement.</i>	2.0 Units
PE 020W Concepts Of Physical Fitness <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three hours lecture.</i>	3.0 Units	PE 057 Introduction to Sports Psychology <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three hours lecture.</i>	3.0 Units
PE 020X Basketball Theory And Analyses I <i>Course Advisories: SCC minimum English and math standards.</i> 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 offensive and defensive. Written exams serve to evaluate student achievement. <i>Two hours lecture, on hour activity.</i>	2.0 Units	PE 071 Back Care And Injury Management <i>Course Advisories: SCC minimum English and math standards.</i> 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. Repeatable 3 times. <i>One-half hour lecture, one and one-half or two and one-half hours activity.</i>	.5 to 1.5 Units

Physical Education/Health/Athletics

- PE 078** **1.0 or 1.5 Units**
Fit Ball Training
Course Advisories: 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.
- PE 083** **2.0 or 2.5 Units**
Fire Candidate Physical Fitness
Course Advisories: SCC minimum English and math standards. Provides lifelong fitness knowledge to gain employment with a federal, state, county, city or special district fire agency. Provides certification with the Fire Service Joint Labor Management Wellness/Fitness Initiative 'Candidate Physical Ability Test.' Repeatable 3 times. (Same as FIRE 083) *One hour lecture, and two to three hours activity.*
- PE 091** **.5 to 1.5 Units**
Adapted Back Rehabilitation
Prerequisite: Permission of Disabilities Services Counselor confirming disability. *Course Advisories: SCC minimum English and math standards.* A specialized course in back rehabilitation that includes an individualized program focusing on the specific disability of each student. 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. Pre-tests and post-tests (written and practical) serve to evaluate student achievement. Repeatable 3 times. *One-half hour lecture plus one-half hours or one and one-half hour or two and one-half hours activity.*
- PE 098B** **3.0 Units**
Introduction to Sports Psychology
Course Advisories: 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.*
- PE 098C** **1.0 or 1.5 Units**
Circuit Training
Course Advisories: SCC minimum English and math standards. 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. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 098E** **1.0 or 1.5 Units**
Cardio Conditioning
Course Advisories: 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. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 098F** **1.0 or 1.5 Units**
Tai Chi
Course Advisories: 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 meditating concepts as related to Tai Chi and health and wellness are covered. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 300** **.5 or 1.0 Units**
Intramural Recreational Sports Program
A sports program designed for college and high school individuals or teams. The program offers equal competition, and an organized schedule. There may be programs which require entry fees from individuals or teams. Fees will cover the cost of officials, score-keepers, and awards. Repeatable 3 times. One or two hours activity.
- PE 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. Announcements of Special Topics courses appear in the Schedule of Classes.

Physical Education/Health/Athletics

Intercollegiate Athletics

The Intercollegiate Athletic Program is governed by the California Community Colleges Commission on Athletics. Solano College is a member of the Bay Valley Conference and NorCal Football 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 of a 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. Each sport listed below may be repeated 2 times.

ATHL 001 **2.0 Units**

Intercollegiate Women's Volleyball

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. **10 hours lab weekly.** Repeatable 2 times.

ATHL 002A **1.0 or 1.5 Units**

Womens Fall Intercollegiate Basketball

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 2 times. **10 hours lab weekly.** (12 week course.)

ATHL 002B **1.0 or 1.5 Units**

Women's Spring Intercollegiate Basketball

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 2 times. **10 hours lab weekly.** (9 wks course).

ATHL 003 **2.0 Units**

Intercollegiate Softball (Women)

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 2 times. **10 hours lab weekly.**

ATHL 004 **2.0 Units**

Intercollegiate Women's Soccer

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 2 times. **10 hours lab weekly.**

ATHL 010 **1.0 or 2.0 Units**

Intercollegiate Co-Ed Swimming & Diving

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. **10 hours lab weekly.** Repeatable 2 times.

ATHL 015 **2.0 Units**

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. **10 hours lab weekly.** Repeatable 2 times.

ATHL 016A **1.0 or 1.5 Units**

Mens Fall Intercollegiate Basketball

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 2 times. **10 hours lab weekly.** (12 week course.)

Physical Education/Health/Athletics

ATHL 016B

1.0 Unit

Mens Spring Intercollegiate Basketball

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 2 times. *10 hours lab weekly.* (9 week course.)

ATHL 017

2.0 Units

Football (Men)

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 2 times. *10 hours lab weekly.*

ATHL 020

2.0 Units

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 2 times. *10 hours lab weekly.*

Physics

(For Physical Science-See "Science,General")

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 29-33 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 an Associate Degree will be able to:

1. Students will demonstrate analytical and/or conceptual problem solving skills.
2. Students will learn to carry out experiments and critically assess their data. Students will learn the role of hypotheses, measurement and analysis in the development of scientific theory as evidence by laboratory reports.
3. Students will learn how to write a laboratory report or give an oral presentation.

Required Courses Units

PHYS 006 Physics for Science and Engineering.	4
PHYS 007 Physics for Science and Engineering.	4
PHYS 008 Physics for Science and Engineering.	4
MATH 020 Analytic Geometry and Calculus I	4
MATH 021 Analytic Geometry and Calculus II.	4
MATH 023 Differential Equations	3

Biological Science

Course selected from the following list: 3 - 5

Biological Science: BIO 001, 002, 005,
006, 012, 014, 015, 016, 018

Physical Science

Course selected from the following list: 3-5

ASTR 010, 020, 030, 040
CHEM 001, 002, 003, 004, 010, 011
GEOG 001, 001L
GEOL 001, 002, 005
METR 010
PHSC 012

Total Units 29-33

Physics

PHYS 002 **5.0 Units**
General Physics (Non-Calculus)

Prerequisite: MATH 051 or MATH 004 with a grade of "C" or better. Course Advisory: Eligibility for ENGL 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. *Four hours lecture/discussion, Three hours lab.*

PHYS 004 **5.0 Units**
General Physics (Non-Calculus)

Prerequisite: PHYS 002 with a grade of "C" or better. Course Advisory: Eligibility for ENGL 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. *Four hours lecture and Three hours lab.*

PHYS 006 **5.0 Units**
Physics For Science And Engineering

Prerequisite: MATH 021 (may be taken concurrently). Course Advisory: Eligibility for ENGL 001 and High School Physics, or PHYS 002 with a grade of "C" or better. 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. *Four hours lecture and three hours lab.*

PHYS 007 **5.0 Units**
Physics For Science And Engineering

Prerequisites: A grade of 'C' or better in both PHYS 006 and MATH 021. Course Advisory: Eligibility for ENGL 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. *Four hours lecture and three hours lab.*

PHYS 008 **5.0 Units**
Physics For Science And Engineering

Prerequisites: A grade of "C" or better in both PHYS 006 and MATH 021. Course Advisory: Eligibility for ENGL 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. *Four hours lecture and three hours lab.*

PHYS 010 **3.0 Units**
Descriptive Physics

Course Advisories: 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

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 Degree

The Associate in Arts Degree may be obtained upon completion of 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 an Associate 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
<i>or</i>	
PLSC 049 Political Science Honors	3
Select 15 units from the courses in Selection One	15
Total Units	18

Selection One:	
IR 001 Global Interdependence	3
PLSC 002 Introduction to Comparative Government	3
PLSC 005 Constitutional Rights in a Multicultural Society	3
PLSC 006 Basic Concepts in Political Thought	3
PLSC 016 The American Legal System	3
PLSC 019 Human Rights and Sexual Orientation	3
PLSC 048G Human Rights: A Global Perspective	3
PLSC 049 Political Science Honors 1 -	3
PLSC 050 Student Leadership 1	

PLSC 001 **3.0 Units**
Introduction to American Government and Politics
Course Advisory: ENGL 001 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. *Three hours lecture.*

PLSC 002 **3.0 Units**
Introduction to Comparative Government
Course Advisories: PLSC 001; ENGL 001; 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. *Three hours lecture.*

PLSC 005 **3.0 Units**
Constitutional Rights in a Multicultural Society
Course Advisories: 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**
Basic Concepts in Political Thoughts
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. *Three hours lecture.*

Political Science

PLSC 016

3.0 Units

The American Legal System

Course Advisories: 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 & 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.*

PLSC 048G

3.0 Units

Human Rights: A Global Perspective

Course Advisories: Completion of ENGL 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

Prerequisites: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 6 units in the discipline with a grade of 'B' or better; an ability to work independently; permission of the division Dean based on instructor availability. Independent study project which results in a critical examination of government, politics, or law. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement.*

PLSC 050

1.0 Unit

Student Leadership

Course Advisories: 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. Repeatable 3 times. *Two hours activity, one hour weekly by arrangement weekly.*

PLSC 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. Announcements of Special Topics courses appear in the Schedule of Classes.

Psychology

Program Description

The psychology program provides academic instruction in basic psychological concepts, theories, terminology, and research methods, and promotes students' life skills, personal growth, and interpersonal effectiveness.

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

1. Students will demonstrate an understanding of major theories and applications of psychology.
2. Students will successfully complete required psychology (major) program courses.

Required Courses Units

PSYC 001 Introduction to Psychology	3
<i>and</i>	
PSYC 002 Biological Psychology	3
PSYC 004 Research Methods in Behavioral Science	3
<i>or</i>	
PSYC 030 Introduction to Social Psychology	3
PSYC 020 Personal and Social Behavior	3
<i>or</i>	
PSYC 005 Abnormal Psychology	3
<i>or</i>	
PSYC 034 Human Sexual Behavior	3
PSYC 010 Psychology of Woman	3
<i>or</i>	
PSYC 024 Psychology of African Americans	3
<i>or</i>	
SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict	3
One other course from the list	3
Total Units	18

Recommended Electives:

ANTH 002 Cultural Anthropology
 BIO 005 Introductory Physiology
 BIO 004 Human Anatomy
 MATH 011 Elementary Statistics
 PSYC 040 Drugs, Society & Behavior
 PSYC 049 Psychology Honors
 SOC 001 Introduction to Sociology
 SOCS 023 The African-American Family

PSYC 001 Introduction to Psychology 3.0 Units

Course Advisories: Eligibility for ENGL 001 and 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. *Three hours lecture.*

PSYC 002 Biological Psychology 3.0 Units

Course Advisories: 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. *Three hours lecture.*

PSYC 004 Research Methods in Behavioral Science 3.0 Units

Prerequisites: PSYC 001 or PSYC 002 or SOC 001. Course Advisories: Eligibility for ENGL 001; MATH 011. 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. *Three hours lecture.*

PSYC 005 Abnormal Psychology 3.0 Units

Prerequisite: PSYC 001. Course Advisories: ENGL 062, eligibility for ENGL 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.*

Psychology

- PSYC 006** **3.0 Units**
Developmental Psychology
Course Advisories: Eligibility for ENGL 001, SCC minimum Math standard, and Psychology 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 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 Advisories: 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.*
- PSYC 024** **3.0 Units**
Psychology of African Americans
Course Advisory: SCC minimum English standard. Examination of the principles and findings of psychology as they relate to the behavior and experience of African Americans. Emphasis upon theories and dimensions of personality, self-concept, normality, and the psychological effects of racism. *Three hours lecture.*
- PSYC 030** **3.0 Units**
Introduction to Social Psychology
Course Advisories: PSYC 001; Eligibility for ENGL 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. *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 Advisories: Eligibility for ENGL 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
Prerequisites: 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 division Dean based on instructor availability. Independent study designed for honor students who intend to major in psychology. Repeatable 3 times. *Three to nine hours weekly by arrangement.*
- PSYC 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. Announcements of Special Topics courses appear in the Schedule of Classes.

Real Estate

(For Reading-See "English")

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 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 from this list of Recommended Electives:

ACCT 001 Principles of Accounting - Financial
BUS 018 Legal Environment of Business
RE 176 Advanced Residential Appraisal Practice
RE 177 Income Property Appraisal and Analysis

**Not required for those holding Real Estate Sales License*

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 Advisories: 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 Advisories: 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 Advisories: 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.*

Real Estate

RE 174

Real Estate Finance

Course Advisories: 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.*

3.0 Units

RE 175

Principles of Appraisal

Course Advisories: 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.*

3.0 Units

RE 176

Advanced Residential Appraisal Practice

Prerequisite: RE 175. Course Advisories: 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.*

3.0 Units

RE 177

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.*

3.0 Units

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 Science 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

1. Students will demonstrate analytical and/or conceptual problem solving skills.
2. Students will learn to carry out experiments and critically assess their data. Students will learn the role of hypotheses, measurement and analysis in the development of scientific theory as evidence by laboratory reports.
3. Students will learn how to write a laboratory report or give an oral presentation.

Biological Science

BIO 001 * Principles of Organismal Biology
BIO 002 * Principles of Cell and Molecular Biology
BIO 005 * Introductory Physiology
BIO 004 * Human Anatomy
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 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
METR 010 Elements of Meteorology
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

Anthropology

ANTH 001 3.0 Units

Physical Anthropology

Course Advisory: SCC minimum English standard. An introduction to physical anthropology covering evolutionary theory, human disease and genetics, human variation and adaptation, primatology, primate and hominid evolution. *Three hours lecture.*

ANTH 002 3.0 Units

Cultural Anthropology

Course Advisory: SCC minimum English standard. Introduction to the study of human culture, with an emphasis on the changing relations between individual people, families, and other social groups, and various types of social inequality. We will also study cultural institutions from around the world, such as religion and magic, political and economic change, varieties of art forms, and the cultural future. *Three hours lecture.*

ANTH 007 3.0 Units

Prehistoric Archaeology

Course Advisory: SCC minimum English and math standards. An introduction to the theories and methods of anthropological archaeology, with an emphasis on and an overview of prehistory. This course will stress the evolution of social systems and technology. Case studies from around the world will illustrate the various ways archaeology deciphers past behavior. *Three hours lecture.*

ANTH 049 2.0 Units

Anthropology Honors

Prerequisites: 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; and permission of the Division 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. Repeatable 1 time. *Six hours weekly by arrangement.*

Astronomy

ASTR 010 3.0 Units

General Astronomy

Course Advisories: Eligibility for ENGL 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

Prerequisites: ASTR 010, 030, or 040 (they may be taken concurrently). *Course Advisory: SCC Minimum Math standard, Eligibility for ENGL 001.* 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 Advisories: Eligibility for ENGL 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 Advisories: Eligibility for ENGL 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: SCC minimum English standard. An introductory study of Earth's natural environment. The course includes a detailed analysis of weather, geologic landforms, climate, natural vegetation, the oceans and other natural environmental elements. Special emphasis is given to the human impact on the environment. Field trips may be required. *Three hours lecture.*

GEOG 001L 1.0 Unit

Physical Geography Laboratory

Prerequisite: GEOG 001 (may be taken concurrently). *Course Advisory: SCC minimum English and math standards.* A lab course to supplement GEOG 001 (Physical Geography). Emphasis will be placed on using the skills and tools of modern physical geography and analyzing and interpreting geographic data. Maps, aerial photographs, satellite images, weather instruments and computer analysis are stressed. One or more field trips are required and may occur outside of class time. *Three hours lab.*

Science, General

GEOG 002

3.0 Units

Cultural Geography

Course Advisory: Eligibility for ENGL 001. Introduction to humans and their impact on the land. This course includes a detailed evaluation of man's cultural world with special emphasis given to man's religions, political states, population problems, and economic systems. A field trip may be required. However, if the student cannot attend the field trip, there will be an optional research paper assignment. *Three hours lecture.*

GEOG 004

3.0 Units

World Geography

Course Advisory: Eligibility for ENGL 001. Geographic study of the world's major regions. Special emphasis is given to the major problems confronting humanity in these regions including an analysis of population growth, hunger and poverty, modification and destruction of the natural environment, and natural resource and energy problems. 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. *Three hours lecture.*

GEOG 006

3.0 Units

California Geography

Course Advisory: Eligibility for ENGL 001. Catalog Description: This course examines the diversity in the physical and human landscapes of California. Major topics in the physical landscape include geology, biogeography, weather/climate, and hydrology; while the human landscape component includes culture, population issues, urbanization, and economics. A field trip is required. *Three lecture hours.*

GEOG 010

3.0 Units

Introduction to Geographic Information Systems

Course Advisory: SCC minimum English and math standards. Eligibility for ENGL001. Basic computer literacy is recommended. Provides an in-depth introduction to the fundamentals of Geographic Information Systems (GIS). The course will include an introduction to basic cartographic principles including map scales, coordinate systems, and map projections. Various applications of GIS technology used in science, business, and government will also be presented. Specific topics covered in lectures will include an understanding of GIS terminology, raster and vector data structures, data sources and accuracy, methods of data acquisition, conversion and input, requirements for metadata, working with spatial data databases, and spatial analysis. The above topics will be reinforced in the laboratory with hands-on experience. Same as GEOL 010. Not open to students who have completed GEOL 010. *Two hours lecture, three hours lab.*

GEOG 060

3.0 Units

Advanced Geographic Information Systems

Prerequisite(s): GEOG 010 or GEOL 010 with a grade of "C" or better. Course Advisory: SCC minimum English and math standards; Basic computer literacy is desirable. Application of advanced analytical techniques of geographic information systems (GIS) to manipulate, analyze and predict spatial patterns. Students will work on individual projects to learn the issues involved in managing and representing spatial information. *Two lecture hours and 3 lab hours.*

GEOG 061

3.0 Units

Introduction to Global Positioning Systems

Course Advisory: SCC minimum English and math standards; Basic computer literacy is desirable. An introduction to the Global Positioning System (GPS). Development of the GPS, operational characteristics, limitations, potential errors and applications will be covered. Activities with GPS receivers will be required. This course will prepare students for advanced course work in the GPS or for course work in Geographic Information Systems. *Two lecture hours and 3 lab hours.*

GEOG 062

3.0 Units

Advanced Global Positioning Systems

Prerequisite(s): GEOG 061 with a grade of "C" or better. Course Advisory: SCC minimum English and math standards; Basic computer literacy is desirable. An advanced course on the Global Positioning System (GPS). Advanced topics including data dictionaries, differential GPS and linking GPS to Geographic Information Systems will be covered. This course will prepare students for additional studies in specific applications of GPS or for course work in Geographic Information Systems. In addition, skills obtained in this course may allow students to seek employment in the spatial science field. *Two lecture hours and 3 lab hours.*

Geology

GEOL 001

3.0 Units

Physical Geology

Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard. Presents a study of the composition of the earth and the processes responsible for its present characteristics. Topics covered include plate tectonics, rocks and minerals, volcanism, metamorphism, sedimentation, weathering, erosion, landforms, earthquakes, glaciers, mineral resources. Field trips may be taken to areas of geological interest. A written research project, tests, and a comprehensive final examination will be used to evaluate student success. This course satisfies the physical science requirements for colleges and universities. Online work may be required. *Three hours lecture.*

Science, General

GEOL 002 1.0 Unit
Geology Laboratory
Prerequisites: GEOL 001 or 005 (either may be taken concurrently). Course Advisories: 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. *Three hours lab and discussion, plus field trips by arrangement.*

GEOL 005 3.0 Units
Geology Of California
Course Advisories: 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. If the student cannot attend the trip, they will have a research paper option. *Three hours lecture.*

GEOL 010 3.0 Units
Introduction To Geographic Information Systems
Course Advisories: SCC minimum English and math standard. Eligibility for ENGL001. Basic computer literacy is desirable. Provides an in-depth introduction to the fundamentals of Geographic Information Systems (GIS). The course will include an introduction to basic cartographic principles including map scales, coordinate systems, and map projections. Various applications of GIS technology used in science, business, and government will also be presented. Specific topics covered in lectures will include an understanding of GIS terminology, raster and vector data structures, data sources and accuracy, methods of data acquisition, conversion and input, requirements for metadata, working with spatial data databases, and spatial analysis. The above topics will be reinforced in the laboratory with hands-on experience. Same as GEOG 010. Not open to students who have completed GEOG 010. *Two hours lecture, three hours lab.*

GEOL 049 1.0 to 3.0 Units
Geology Honors
Prerequisite(s): 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 grade of "B" or better; an ability to work independently; and permission of the Division Dean based on instructor availability. Course Advisory: Eligibility for ENGL 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. *Three to nine hours weekly by arrangement.*

Meteorology

METR 010 3.0 Units
Elements Of Meteorology
Course Advisories: Eligibility for ENGL 001; SCC minimum math standard. A non-technical introduction to the science of meteorology and weather processes. Quizzes and tests and a comprehensive final exam will be used to evaluate student success. *Three hours lecture.*

Physical Science

PHSC 012 4.0 Units
Introduction to the Principles of Physical Science
Course Advisories: 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 geosciences. 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.*

PHSC 048 3.0 Units
Special Topics In Physical Science
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.

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 an 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
<i>or</i>	
ANTH 002 Cultural Anthropology	3
ECON 001 Principles of Economics (Macroeconomics) . .	3
GEOG 001 Physical Geography	3
<i>or</i>	
GEOG 002 Cultural Geography	3
<i>or</i>	
GEOG 004 World Geography	3
Any History OR American Studies Course	3
PLSC 001 Introduction to American Government and Politics	3
<i>or</i>	
PLSC 006 Basic Concepts in Political Thought.	3
<i>or</i>	
PLSC 016 The American Legal System	3
PSYC 001 Introduction to Psychology	3
<i>or</i>	
SOC 001 Introduction to Sociology	3
<i>or</i>	
Any Social Science Ethnic Studies course that is not used to complete the above.	3
Total Units	18

Social Sciences

SOCS 022 3.0 Units
Ethnic, Racial, & Minority Grp Relations in Harmony & Confl

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 Advisories: Eligibility for ENGL 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.*

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 026 3.0 Units
Filipino-American Experience

Course Advisory: SCC minimum English standard. Interdisciplinary examination of the historical, economic, political, and sociological aspects of the Filipino-American experience in the United States. Emphasis on various problems of assimilation. *Three hours lecture.*

SOCS 027 3.0 Units
Native American Experience

Course Advisories: 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 Advisories: 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 Advisories: Eligibility for ENGL 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

Prerequisites: 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 division Dean based on instructor availability. Independent study designed for honor students who intend to major in social sciences. Repeatable 3 times. *Three to nine hours weekly by arrangement.*

SOCS 051 3.0 Units
Mediation

Course Advisories: Eligibility for ENGL 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. Repeatable 3 times. (2 wks course)

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. Announcement of Special Topics courses appear in the Schedule of Classes.

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 an Associate Degree will be able to:

1. Students will have a basic knowledge of the history of the development of sociology as a separate discipline.
2. Students will become more aware of cultural, social, political, environmental, and economic forces within the world they live.
3. Students will be able to critically think, in addition to increasing their reading, writing and basic research skills.

Required Courses	Units
SOC 001 Introduction to Sociology	3
SOC 002 Social Issues and Problems	3
PSYC 004 Research Methods in Behavioral Science	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:

ENGL 036 Multi-Ethnic Literature in America
ENGL 012 Modern Women Writers
GEOG 002 Cultural Geography
HUDV 052 Issues In Aging
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 this AA-T degree, student must:

1. Complete the following 18-19 unit major requirements with grades of C or better
2. Complete a minimum of 60 CSU-transferable semester units with a minimum grade point average of 2.0
3. Complete either the California State University General Education Breadth pattern (CSU, GE), which requires 39 units, or the Intersegmental General Education Transfer Curriculum (IGETC), which requires 34-39 units. Students are not required to complete Solano Cross-Cultural Studies requirement.

Program Outcomes

Students who complete an Associate 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

Total Units 18 – 19

Sociology

SOC 001 Introduction to Sociology <i>Course Advisory: Eligibility for ENGL 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units	SOC 049 Sociology Honors <i>Prerequisites: 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 division Dean based on instructor availability.</i> Independent study designed for honor students who intend to major in sociology. Repeatable 3 times. <i>Three to nine hours weekly by arrangement.</i>	1.0 to 3.0 Units
SOC 002 Social Issues and Problems <i>Course Advisories: SOC 001, Eligibility for ENGLISH 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units	SOC 075 Introduction to Sociology of Sport <i>Course Advisories: SCC minimum English and math standards; SOC 001.</i> <i>Sociology of Sport examines the nature, position, functions, and growing importance of sports in contemporary industrial society.</i> 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. <i>Three hours lecture.</i>	3.0 Units
SOC 023 Sociology of African Americans <i>Course Advisories: SOC 001 or SOC 022; Eligibility for ENGL 001.</i> An introductory sociological study of African Americans. Emphasis will be on culture, community, social institutions, social relationships and social problems. <i>Three hours lecture.</i>	3.0 Units	SOC 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. Announcements of Special Topics courses appear in the Schedule of Classes.	
SOC 030 Introduction to Social Psychology <i>Course Advisories: PSYC 001; Eligibility for ENGL 001 and SCC minimum math standard.</i> 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. <i>Three hours lecture.</i> (same as PSYC 030)	3.0 Units		
SOC 040 Sociology of the Family <i>Course Advisories: SOC 001 and Eligibility for ENGLISH 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units		
SOC 045 Sociology of Religion <i>Course Advisory: Eligibility for ENGL 001.</i> 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. <i>Three hours lecture.</i>	3.0 Units		

Theatre Arts

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 an 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 seven units from Selection One or if selecting THEA 001 and THEA 002, you must select one unit from any course in Selection Two.	7
Total Units	18

Selection One: Select seven units in the following:

THEA 033 Actor Training 4.....	7
<i>or</i>	
THEA 001 Principles and Theory of Acting	3
<i>and</i>	
THEA 002 Principles and Theory of Acting	3

Selection Two: One unit in any of the following: Units

THEA 005 Applied Drama 2 -.....	3
THEA 047 Technical Production 1 -.....	3

Technical Emphasis Units

THEA 001 Principles and Theory of Acting	3
THEA 003 Stagecraft	3
THEA 010 History of Theatre 1	3
THEA 011 History of Theatre 2.....	3
THEA 020 Lighting.....	3
THEA 047 Technical Production.....	3
Total Units	18

Recommended Elective:

THEA 013 Diversity in American Theatre: A Contemporary Focus

Theatre Arts

THEA 001 Principles and Theory of Acting <i>Course Advisory: SCC minimum English standard.</i> Fundamentals of acting are presented and training is given in acting mechanics, pantomime, improvisation, and oral interpretation based on the comparison and analysis of plays and short scenes. <i>Three hours lecture.</i>	3.0 Units	THEA 007 Directing <i>Course Advisory: Eligibility for ENGL 001.</i> Introduction to the theory and practice of play direction which will culminate in the first-hand direction of a one-act play, to be publicly performed, in which all of the requisite directorial elements are synthesized. <i>Two hours lecture, three hours lab.</i>	3.0 Units
THEA 002 Principles and Theory of Acting <i>Prerequisite: THEA 001. Course Advisory: Eligibility for ENGL 001.</i> Presents the fundamentals of acting in greater depth, with emphasis placed on specific style of acting and the interpretation of structure, form, and style of plays as they relate to characterizations. <i>Three hours lecture.</i>	3.0 Units	THEA 008 Stage Make-Up <i>Course Advisory: SCC minimum English standard.</i> Instruction, practice, and application of techniques of stage make-up. Emphasis is placed on role analysis as a basis for make-up design, principles of light and shade as they relate to the creation of youth and aging effects, integration and application of the principles of color usage as they relate to stage lighting and costumes. Also included is a study and comparison of various types of make-up and equipment, development of a make-up kit, special effects, the creation of wigs and moustaches and a survey of make-up fashions to be used in period productions. Repeatable 2 times. <i>One hour lecture, Three hours lab.</i>	2.0 Units
THEA 003 Stagecraft <i>Course Advisory: SCC minimum English and math standards.</i> Presents a general introduction to the practices of theatre production, including costume, makeup, props, lighting, scenic and audio design and operation. Student will participate in the planning, design, construction and operation of a theatrical event as determined by the instructor. Repeatable 1 time. <i>Two hours lecture, three hours lab.</i>	3.0 Units	THEA 010 History of Theatre I <i>Course Advisories: Eligibility for ENGL 001 and SCC minimum Math standards.</i> Presents the history of theatre from ancient Greece up to the Restoration. Emphasizes the literature of theatre as affected by the society, culture, and politics during the period in which it was created. Field trip may be required. <i>Three hours lecture.</i>	3.0 Units
THEA 004 Stage Movement <i>Course Advisory: SCC minimum English standard.</i> Presents the fundamental principles of movement for the drama student including stage movement, character development and interrelationships, ensemble exercises and dramatic improvisation. Repeatable 2 times. <i>Four hours activity.</i>	2.0 Units	THEA 011 History of Theatre 2 <i>Course Advisories: Eligibility for ENGL 001 and SCC minimum Math standard.</i> Presents the history of theatre from the Restoration to the present. Emphasizes the literature of theatre as affected by the society, culture, and politics during the period in which it was created. Field trip may be required. <i>Three hours lecture.</i>	3.0 Units
THEA 005 Applied Drama <i>Prerequisite: Audition for actors only. Course Advisory: SCC minimum English standard.</i> 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. Repeatable 3 times. <i>Two unit option requires 19.3 hours lab, three unit option requires an additional 9.5 hours.</i> (5 weeks)	2.0 to 3.0 Units	THEA 013 Diversity in American Theatre: A Contemporary Focus <i>Course Advisories: Eligibility for ENGL 001 and SCC minimum math standard.</i> 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. <i>Three hours lecture.</i>	3.0 Units
THEA 006 Introduction to Theatre: Understanding Drama <i>Course Advisories: SCC minimum English and math standards.</i> Understanding and appreciation of both the distinctive and collaborative contributions of playwright, actor, director, and designer to the total work of dramatic art. Study of the plays from the major periods of dramatic art in their cultural contexts. Written exams and a paper are required. Audience oriented, non-performance course. <i>Three hours lecture.</i>	3.0 Units		

Theatre Arts

THEA 020 Lighting <i>Course Advisories: SCC minimum English and Math standards.</i> An introductory course to the technical aspects of stage lighting. Instruction covers lighting equipment, color, electricity and the reading of lighting plots. Repeatable 2 times. <i>Two hours lecture, three hours lab.</i>	3.0 Units	THEA 033 Actor Training 4 <i>Prerequisite: THEA 032 with a grade of 'C' or better. Course Advisory: SCC minimum English standard.</i> An intensive acting study course which concentrates on restoration, farce, commedia, and expressionism as acting styles, Shakespearean text and scansion for the actor, audition techniques as they relate to musical theatre and cold readings, as well as performance skills. Students will assimilate all areas of technical theatre into performance, including stage management responsibilities. <i>Three hours lecture, thirteen hours activity.</i>	7.0 Units
THEA 021 Introduction to Theatre Design <i>Course Advisories: SCC minimum English and Math standards.</i> Overview of the field of design in the entertainment arts is presented. A brief history of design, as well as style, conception, composition, design communication, and design integration are studied. This course will involve the study of design as it relates to the interpretation of play text and director concept, as well as how design is used in the interpretation and support of other types of entertainment. Repeatable 1 time. <i>Two hours lecture, three hours lab.</i>	3.0 Units	THEA 034 Musical Theatre <i>Prerequisite: Audition for actors only, no auditions for crew and other staff. Course Advisory: SCC minimum English standard.</i> 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 class. Repeatable 3 times. One hours lecture, <i>Three hours lab, and three to six hours weekly by arrangement.</i> (formerly MUSC 022)	2.0 Units
THEA 030 Voice and Speech for the Actor <i>Course Advisory: SCC minimum English Standard.</i> An intensive acting study course which concentrates on the body as an instrument of communication, the voice within the acting process, sensory experience, spontaneity, objectives, vocal relaxation and centering. <i>Two hours lecture and three hours activity.</i>	3.0 Units	THEA 047 Technical Production <i>Course Advisory: SCC minimum English standard.</i> A production course for students interested in technical theatre. Students are given an increasing level of responsibility in accordance with their individual abilities. Areas of responsibility may include: stage manager, lead carpenter, master electrician, lead grip, assistant lighting designer, scenic designer, lighting designer, assistant scenic designer. This is an open entry/open exit course. Repeatable 3 times. <i>Three hours lab, zero to six hours weekly by arrangement.</i>	1.0 to 3.0 Units
THEA 031 Actor Training 2 <i>Prerequisite: THEA 030 with a grade of 'C' or better. Corequisite: THEA 047. Course Advisory: Eligibility for ENGL 001.</i> An intensive acting study course which concentrates on the actor in relation to acting text, text breakdown and scoring, beats, textual analysis, American Realism, current play writing trends, diction and regionalism, musical theatre repertoire, sight reading of musical theatre scores, and musical theatre dance. Students will continue their preliminary studies of the total production concept. <i>Three hours lecture, thirteen hours activity.</i>	7.0 Units	THEA 048A Theatre Appreciation <i>Course Advisory: SCC minimum English and math standards.</i> 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. <i>Two and one half hours lecture plus one and one half hours by arrangement weekly.</i>	3.0 Units
THEA 032 Actor Training 3 <i>Prerequisite: THEA 031 with a grade of 'C' or better. Corequisite: THEA 047. Course Advisory: Eligibility for ENGL 001.</i> An intensive acting study course which concentrates on acting methodologies and styles, audition techniques, heightened realism, movement in clown, mime, and combat, musical theatre transitions, and American musical theatre tap dance. Students will develop an understanding of the various components of technical theatre including scenery and show operation. <i>Three hours lecture, thirteen hours activity.</i>	7.0 Units		

Theatre Arts

- THEA 048B** 4.0 Units
Theatre Lab-Comedy
Pre-requisite: Admission by audition only. The rehearsal and performance of comedic roles for the stage which includes: classical and contemporary comedies, farces, commedia, and holiday pantos. The works may be full length, one act or sketch (improv) format. Students participate as actors, ensemble members or in certain works as solo performers. *Three hours lab and nineteen hours by arrangement* (9 weeks).
- THEA 048C** 1.0 Unit
Musical Theatre Performance
Pre-requisite: THEA 034 with a minimum grade of C. The dress rehearsal and public performance of musical works for the stage including operas, operettas, and musicals. Students will participate as vocalists, musicians, dancers and accompanists. *Four hours lab and eight hours by arrangement* (4 weeks).
- THEA 048D** 4.0 Units
Theatre Lab-Drama
Course Advisory: Entrance by audition only. The rehearsal and performance process for dramatic works for the stage, including classical, contemporary and experimental dramas, both full-length and one acts. Students participate as performers in principal, features and/or ensemble roles. *Three hours lab and nineteen hours by arrangement* (9 weeks).
- THEA 049** 1.0 to 3.0 Units
Theatre Arts 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 division Dean based on instructor availability. Independent study course for proficient students of drama. Under a contractual arrangement between student and instructor, the student will pursue a specified course of independent but directed study. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement.*
- THEA 050** 3.0 Units
Performance for the Camera
Course Advisory: SCC minimum English standard. 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 062** 1.0 Unit
Theatrical Costume Practicum
Course Advisories: SCC minimum English and math standards. A practicum course that covers the fundamentals of costume construction and its integration into the theatre process. Each student will be given an increasing level of responsibilities in accordance with individual abilities. Areas of responsibility may include: Co-Costume Designer, Assistant Designer, Cutter, Tailor, First Hand, Stitcher, Millner, Cobbler, Crafts Artisan, Wig/Hair Stylist, Make-up Artist, Wardrobe Supervisor, or Dresser. Successful completion of the costume production process may culminate in a crew assignment. This is an open entry/open exit course. May be repeated to a maximum of 12 units, including initial enrollment. *Three hours lab, zero to six hours weekly by arrangement.*
- THEA 106** 2.0 Units
Solano College Theatre Touring Company
Prerequisite: Audition required for performer participation. Course Advisory: SCC minimum English standard. Theatre Touring Company students will gain experience touring and performing material from the American Musical Theatre repertoire throughout Solano County. Through weekly rehearsals and varied performance opportunities, students acquire and practice the skills required of a "triple threat" (singing, dancing and acting) performer. Travel is required to various Solano County venues for performances. Repeatable 3 times. *One hour lecture; two hours activity; one hours by arrangement.*
- THEA 108** 2.0 Units
Advanced Theatre Touring Company
Pre-requisites: 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. Repeatable 3 times. *One hour lecture, two hours lab, and one hour by arrangement.*
- THEA 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. Announcements of Special Topics courses appear in the Schedule of Classes.

University Studies with Emphasis

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.

Program Outcomes

1. Students will learn how to write a laboratory report or give an oral presentation
2. Students will demonstrate analytical and/or conceptual problem solving skills
3. Students will 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.

General Education

I. Option B: IGETC

Complete units necessary to meet full IGETC certification requirements.

GE Units

Minimum 34 semester units

II. Option C: CSU/GE/Breadth Pattern

Complete units necessary to meet full CSU/GE-Breadth certification requirements.

Minimum 39 semester units

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.

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, 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

AMST 001, 002

ENGL 002, 006, 007, 012, 013, 014, 016, 017, 018, 20, 021, 023, 024, 025, 030, 031, 032, 033, 034, 35, 036, 037, 038, 040, 041, 044, 045, 046, 047

FREN 001, 002, 003, 004, 011, 012, 031, 032, 033, 034

GRMN 001, 002, 003, 004, 011, 012, 031, 032, 033, 034

HIST 002, 003, 004, 005, 010, 015, 017, 018, 028, 29, 030, 031, 032, 037

ITAL 031, 032

LATN 001, 002, 003

PHIL 003, 004, 031, 032

SPAN 001, 002, 003, 004, 011, 012, 025, 031, 032, 033, 034

SPCH 015

University Studies with Emphasis

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.

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
COUN 062
ENGL 002, 004, 006, 007, 046, 047, 058, 062, 064
FREN 001, 002, 003, 004, 031, 032, 033, 034
GRMN 001, 002, 003, 004, 031, 032, 033, 034
HS 52
ITAL 031, 032
JOUR 001, 002, 011, 060
LATN 001, 002, 003
PHIL 005
SPAN 001, 002, 003, 004, 025, 031, 032, 033, 034
SPCH 001, 002, 006, 008, 010, 012, 015, 060
SOCS 030, 051
TV 050, 060, 061

Liberal Studies for Elementary Teacher Preparation

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.

AMST 001, 002	HED 002
ANTH 002, 007	HIST 002, 003, 004, 005, 010, 017, 018, 025, 028, 029, 037
ART 001, 002, 003, 006, 010, 011, 012, 014, 017, 023, 031, 039	HUDV 038, 039, 070
ASTR 010	HUMN 003
BIO 003, 004, 005, 012, 014, 015, 016, 019	MATH 002, 004, 011, 012, 015
CHEM 010	MUSC 005, 007, 008, 013
CINA 010, 011	PHIL 001, 003, 004, 005, 031, 032
ECE 071	PHYS 010
ECON 001	PHSC 012
ENGL 012, 016, 030, 031, 032, 033, 034, 035, 036, 037, 038, 040, 041	PLSC 001, 005
GEOG 002, 004	PSYC 001, 002, 005, 010, 024
GEOL 001, 002, 003, 004	SOC 001, 002, 023, 040
	SOCS 022
	THEA 001, 010, 011, 013

University Studies with Emphasis

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.

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
ENGR 017, 030, 045
GEOG 001, 001L
GEOL 001, 002, 005
METR 010
PHYS 002, 004, 006, 007, 008, 010
PHSC 012
PSYC 002

QUANTITATIVE REASONING

CIS 001, 015, 020, 022, 023, 035
CHEM 001, 002, 010
DRFT 056
GEOG 010 (GEOL 010)
MATH 002, 004, 011, 012, 020, 021, 022, 023, 030, 031, 040, 051
PSYC 004

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.

AMST 001, 002
ANTH 002, 007
COUN 055, 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
HUDV 038, 039, 040, 050, 052, 053, 058, 070
HS 051, 052, 053
IR 001
JOUR 011
PLSC 001, 002, 003, 005, 016, 019
PSYC 001, 002, 004, 005, 010, 020, 024, 030, 034, 065
SOC 001, 002, 023, 030, 040, 051
SOCS 022, 023, 025, 026, 027, 030, 051, 053
SPCH 012
TV 050

Water and Wastewater Technology

(For Tutoring-See "Counseling")

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

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 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
<i>or</i>	
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

Specialty Courses-Select 4 or 5 Units

WATR 105 Wastewater Treatment II	3
WATR 108 Water Treatment II	2
WATR 120 Distribution Systems Maintenance	2
WATR 121 Collection Systems Maintenance	2

Select from the following options:

OPTION 1	
BIOT 160 Basic Concepts/Methods in Biotechnology . . .	4
OPTION	2
BIO 014 Principles of Microbiology	4
CHEM 010 Intermediate Chemistry	4
<i>or</i>	
CHEM 051 Chemistry for the Health Sciences.	5
<i>or</i>	
CHEM 001 General Chemistry	5
OPTION	3
WATR 103 Biological Principles of Water and Wastewater	3
Total Units	25-32

WATR 100 4.0 Units Wastewater Treatment I

Course Advisories: 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 Advisories: 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 102 4.0 Units Sanitary Chemistry

Prerequisite: CHEM 160 with a grade of "C" or better.
Course Advisories: SCC minimum English and math standards. Study of the theory and demonstration of laboratory techniques for control tests of water purification. Emphasis is placed on process control including pH, chlorine residual, coliform, turbidity, BOD, solids, and interpretation of lab test results. Mandatory field trips will be taken to water treatment plants and water quality laboratories. *Four hours lecture.*

WATR 103 3.0 Units Biological Principles of Water and Wastewater

Course Advisories: 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.*

Water and Wastewater Technology

WATR 104 Water Treatment I <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three hours lecture.</i>	3.0 Units	WATR 120 Distribution Systems Maintenance <i>Course Advisories: SCC minimum English and math standards.</i> Study of the operation and maintenance of water distribution systems covering the design, construction and the functioning of these systems. <i>Two hours lecture.</i>	2.0 Units
WATR 105 Wastewater Treatment II <i>Prerequisite: WATR 100. Course Advisories: SCC minimum English and math standards.</i> Study of the elementary engineering aspects of design, operation process control, and maintenance of wastewater treatment plants and facilities. <i>Three hours lecture.</i>	3.0 Units	WATR 121 Collection Systems Maintenance <i>Course Advisories: SCC minimum English and math standards.</i> Study of the operation and maintenance of wastewater collection systems covering the design, construction and functioning of these systems. <i>Two hours lecture.</i>	2.0 Units
WATR 106 Instrumentation and Control <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three hours lecture.</i>	3.0 Units	WATR 125 Water Conservation <i>Course Advisory: SCC minimum English and Math Standards.</i> 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.	2.5 Units
WATR 107 Mathematics of Water and Wastewater Treatment <i>Course Advisories: SCC minimum English and math standards.</i> A study of calculations - hydraulics, chemicals, solids - used in the design, operation, process control, and maintenance of treatment plants and facilities. <i>Four hours lecture.</i>	4.0 Units	WATR 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. Announcements of Special Topics courses appear in the Schedule of Classes.	
WATR 108 Water Treatment II <i>Prerequisite: WATR 104 with a minimum grade of C, Course Advisories: SCC minimum English and Math standards.</i> 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. <i>Three hours lecture.</i>	3.0 Units		
WATR 112 Wastewater Treatment III <i>Prerequisite: WATR 105. Course Advisories: SCC minimum English and Math standards.</i> 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. <i>Two hours lecture.</i>	2.0 Units		

Welding, Industrial Technician

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 23-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 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	2
IT 140 Industrial Materials	3
Electives selected from the list below	18
Total Units	23

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:

ECTN 101 Introduction to Electricity and Electronics
ENGL 051 Technical Writing
IT 160 Electrical Fundamentals
OCED 090 Occupational Work Experience
OCED 091 General Work Experience
WELD 174 Welding Equipment Operation
WELD 175 Welding Fabrication
WELD 176 Shielded Metal Arc Certification
WELD 177 Wire Welding Certification

Welding, Technician

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 48-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 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	10
DRFT 079 Blueprint Reading	2
IT 140 Industrial Materials	3
IT 150 Industrial Processes	3
Total Units	48

Recommended Electives:

ECTN 101 Introduction to Electricity and Electronics
ECTN 102 Electrical Safety
IT 160 Electrical Fundamentals
OCED 090 Occupational Work Experience
OCED 091 General Work Experience
WELD 174 Welding Equipment Operation
WELD 175 Welding Fabrication
WELD 176 Shielded Metal Arc Certification
WELD 177 Wire Welding Certification

Welding Equipment Operator Job-Direct Certificate

All courses must be completed with a grade of "C" or better.

Required Courses	Units
WELD 174 Welding Equipment Operation	2
WELD 175 Welding Fabrication	2
WELD 176 Shielded Metal Arc Certification	2
WELD 177 Wire Welding Certification	2
OCED 090 * Occupational Work Experience	1
Total Units	9

*Students will be required to complete 80 hours of cooperative supervised work experience to receive credit.

Welding

WELD 100 Welding Technology <i>Course Advisory: SCC minimum English standard.</i> 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. <i>Five hours lecture, fifteen hours lab.</i>	10.0 Units	WELD 120 Plate Welder (Basic) <i>Course Advisories: Successful completion of IT 110 or prior welding experience; SCC minimum English standard.</i> 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. <i>Two hours lecture, three hours lab.</i>	3.0 Units
WELD 101 Welding Technology <i>Prerequisites: WELD 100 or comparable industry experience or training. Course Advisory: SCC minimum English standard.</i> 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. <i>Five hours lecture, fifteen hours lab.</i>	10.0 Units	WELD 121 Plate Code Welder (Advanced) <i>Course Advisories: Successful completion of IT 110 or prior welding experience; SCC minimum English standard.</i> 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. <i>Two hours lecture, three hours lab.</i>	3.0 Units
WELD 102 Welding Technology <i>Prerequisites: WELD 101 or comparable industry experience or training. Course Advisories: SCC minimum English and math standards.</i> 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. <i>Five hours lecture, fifteen hours lab.</i>	10.0 Units	WELD 122 Pipe Welding (Basic) <i>Course Advisories: Successful completion of IT 110 or prior welding experience; SCC minimum English standard.</i> 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. <i>Two hours lecture, three hours lab.</i>	3.0 Units
WELD 103 Welding Technology <i>Prerequisites: WELD 102 or comparable industry experience or training. Course Advisory: SCC minimum English standard.</i> 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. <i>Five hours lecture, fifteen hours lab.</i>	10.0 Units	WELD 123 Pipe Welding (Advanced) <i>Course Advisories: Successful completion of IT 110 or prior welding experience; SCC minimum English standard.</i> 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. <i>Two hours lecture, three hours lab.</i>	3.0 Units
WELD 112 Carpentry Apprentice Welding <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>Twelve hours lecture, twenty-four hours lab</i> (one week course).	1.0 Unit	WELD 124 Gas Tungsten Arc Welding (GTAW) <i>Course Advisories: Successful completion of IT 110 or prior welding experience; SCC minimum English standard.</i> 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. <i>Two hours lecture, three hours lab.</i>	3.0 Units

Welding, Industrial Technician

WELD 125 Gas Metal Arc Welding <i>Course Advisories: Successful completion of IT 110 or prior welding experience; SCC minimum English standard.</i> 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. <i>Two hours lecture, three hours lab.</i>	3.0 Units	WELD 176 Shielded Arc Certification <i>Course Advisories: SCC minimum English and math standards.</i> Designed to increase student knowledge and tactile skills to the level they can pass a certification test to certain Welding Codes using the Shielded Metal Arc process. Repeatable 2 times. <i>Four hours lecture, sixteen hours lab</i> (4 week course).	2.0 Units
WELD 126 Ornamental Iron Welding <i>Course Advisories: Successful completion of IT 110 or prior welding experience; SCC minimum English standard.</i> 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. Repeatable 2 times. <i>Two hours lecture, three hours lab.</i>	3.0 Units	WELD 177 Wire Welding Certification <i>Course Advisories: SCC minimum English and math standards.</i> Designed to increase student knowledge and tactile skills to the level they can pass a certification test to certain Welding Codes Specifications using wire processes. Repeatable 2 times. <i>Four hours lecture, sixteen hours lab</i> (4 week course).	2.0 Units
WELD 174 Welding Equipment Operation <i>Course Advisories: SCC minimum English and math standards.</i> Designed to acquaint students with the equipment and techniques used to safely perform welding operations. Students will learn to perform basic welding methods. <i>Four hours lecture, sixteen hours lab</i> (4 week course).	2.0 Units	WELD 500 Special Welding Problems <i>Prerequisites: Permission of the instructor to verify room for special problems students.</i> 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.	Non-Credit
WELD 175 Welding Fabrication <i>Course Advisories: SCC minimum English and math standards.</i> Designed to increase student knowledge and tactile skills with welding processes and related metal working equipment. <i>Four hours lecture, sixteen hours lab</i> (4 week course).	2.0 Units	WELD 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. Announcements of Special Topics courses appear in the Schedule of Classes.	

Administration

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The College's Governing Board meets the first and third Wednesdays of each month at 6:30 p.m. in the Board Room, 626, of the Administration Building. 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).

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Rosa Monroy—Counseling/DSP
Carolyn Moore—Counseling/DSP
Deidra Moss—Fiscal Services
Sharon Muhammad—School of Human Performance
& Development
Cynthia Murashige—College Police
R. Danny Murillo—Facilities
Dawna Murphy—Bookstore
Judy Nash—Counseling/DSP
Kathy Nesler—Facilities
Dao Nguyen—Facilities
Evette Nichols—Technology Services & Support
George Olgin—School of Liberal Arts
Scott Ota—Technology Services & Support
Nedra Park—School of Human Performance & Development
Sidne Parker—Counseling/DSP
Antoinette Payne—Financial Aid
Don Pederson—Facilities
Doug Pierce—School of Sciences
José Ramos—College Police
Michelle Ramos—Vacaville Center
Lisa Raquel—Vacaville Center
Diane Rieschick—School of Liberal Arts
Ignacio Rivera—Facilities
Lourdes Rivera—Facilities
Vincent Rivera—Facilities
Edna Robinson—Technology Services & Support
Jay Robinson—Technology Services & Support
Laura Robinson—Facilities
Hai-Yen Scoccia—Fiscal Services
Laura Scott—Purchasing
Ann Short—Community Services
John Siefert—Vallejo Center
Cynthia Simon—EOPS
Francesca Sisto—Financial Aid
Carol Smith—Bookstore
Erika Smith—School of Career Technical Education & Business
Ona Smith—Financial Aid
Patrice Spann—School of Human Performance & Development
Christie Speck—School of Human Performance & Development
Judy Spencer—Office of Superintendent/President
Padungsak Srisung—Facilities
Lisa Stedman—Children’s Programs
April Love-Takahashi—Admissions & Records
Ray Tanaka—Technology Services & Support
Douglas Tatum—Facilities

Classified Staff

Galen Tom—Technology Services & Support

Anne Troupe—Financial Aid

Kelly Trujillo—Facilities

Thomas Trujillo—Bookstore

Andrea Uhl—Workforce & Economic Development

Jerry Uquillas—Facilities

Amy Utt—Counseling/DSP

Juan Valenzuela, Jr.—Bookstore

Pei-Lin Van't Hul—Research & Planning

Juwan Vartanian—School of Human Performance & Development

Eric Vlnar—Facilities

Anthony Washington—Facilities

Karen Watson—School of Liberal Arts

Kelli Weaver—School of Career Technical Education & Business

Cheryl Williams—Counseling/DSP

Kristine Wollrich— School of Liberal Arts

Renee Worthy –School of Human Performance & Development

Patricia Young—Career Center

Judy Yu—Fiscal Services

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.

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 - This is identified in the class schedule by a specific registration number.

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.

Concurrent Enrollment - Taking one course at a CSU or UC campus while also enrolled as a Solano College.

Course Reference Number (CRN) - This is identified in the class schedule by a specific CRN number (formerly class section). Course should read "006" (three digits) Honors - should read "049" or "099" (three digits) and "HIST 017H"

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.

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.

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).

Glossary

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 - There are two types of Honors courses. 1) A series of independent studies courses in which a student works one-on-one with an instructor on a project in a particular discipline. These courses are designated with the course number "049" or "099" in the discipline in which they are offered. 2) A series of transferable liberal arts courses designed to provide high achieving, highly motivated students with an enriched educational experience. These courses are designated with the letter "H" following the number of the course; i.e., HIST 017H. Some of these courses are also independent studies. These honors courses satisfy requirements of the Liberal Arts Honors program major. (For more information, see the Liberal Arts Honors program

description in the "Announcement of Courses and Course Numbers" section of the Catalog.)

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 - A means of delivering virtual courses through use of the World Wide Web (WWW) and email.

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 booklet used during registration giving the subject, course number, course title, units, time, instructor, and location of all classes offered in a semester.

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.

SOLANOnline - A means of delivering virtual courses through use of the World Wide Web (WWW) and email. Courses are structured around a teacher's weekly assignments. Students participate in class by sharing thoughts and ideas with message boards and other electronic means. There is no set time when students must be at their computers. The structure keeps the class on track and focused on the same educational goals while allowing an escape from the demands and conflicts of traditional college courses.

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 all classes.

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X, Y, Z

Academic Calendar-Fall 2012-13

Note: The dates below refer to full-semester length classes. Short Term class deadlines vary by class/CRN#.

Students: Please see your Schedule Bill via MySolano for class-specific deadline information.

Faculty Please see your MySolano roster for class specific deadline information.

Staff: Please see SSAACCL for class specific deadline information.

All: All adds and drops are to take place online via MySolano.

August

8/10/12All Student Services Offices Closed 8am-12pm
 8/13/12Fall Term Begins
 8/26/12Last Day to Drop a Full Term Class and Receive Refund of Enrollment Fees
 8/13/12-9/2/12Late Registration

September

9/2/12Last Day to Add a Full Term Class
 9/2/12Last Day to Drop without a W
 9/1/12-9/3/12Labor Day Weekend-No Classes
 9/4/12Full Term Class Census Date
 9/6/12Last Day to Apply for Credit by Exam
 9/15/12Last Day to file for Pass/No Pass Option

October

10/4/12Last Day to Petition for Degrees/Certificates
 To Be DeterminedStudent Services Retreat (all Student Services Offices Closed)
 10/28/12Last Day to Drop a Full Term Class with a W

November

11/12/12Veteran's Day Observed-No Classes
 11/19/12-11/21/12Faculty In-Service: No Classes
 11/22/12-11/25/12Thanksgiving Break-No Classes
 To Be DeterminedSpring 2013 Priority Registration

December

12/11/12-12/17/12Evening Class Finals
 12/11/12-12/17/12Day Class Finals
 To Be DeterminedSpring 2013 Open Registration
 12/15/12-12/16/12Saturday/Sunday Class Finals
 12/17/12
 Fall Term Ends

Please go to www.solano.edu, then click Admissions, Registration and Records for detailed information regarding above dates and activities.

Your individual registration date and time 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?

Spring 2013 Priority Registration

To Be Determined	DSP/EOPS/Veterans/CalWorks
To Be Determined	Athletes/ASSC/Summer Bridge
To Be Determined	Continuing Students
To Be Determined	First Time Student who HAVE Completed Orientation and Assessment
To Be Determined	Returning (did not attend prior term or more) and Transfer Students
To Be Determined	First Time Students
To Be Determined	K12 Students
To Be Determined	Open Registration

Parking Information

PARKING PERMITS: Semester parking permits can be purchased online at www.solano.edu (on the homepage in the upper right hand corner will be a drop-down box, "choose your destination." Select "Parking 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 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 student lots 1-6. 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.

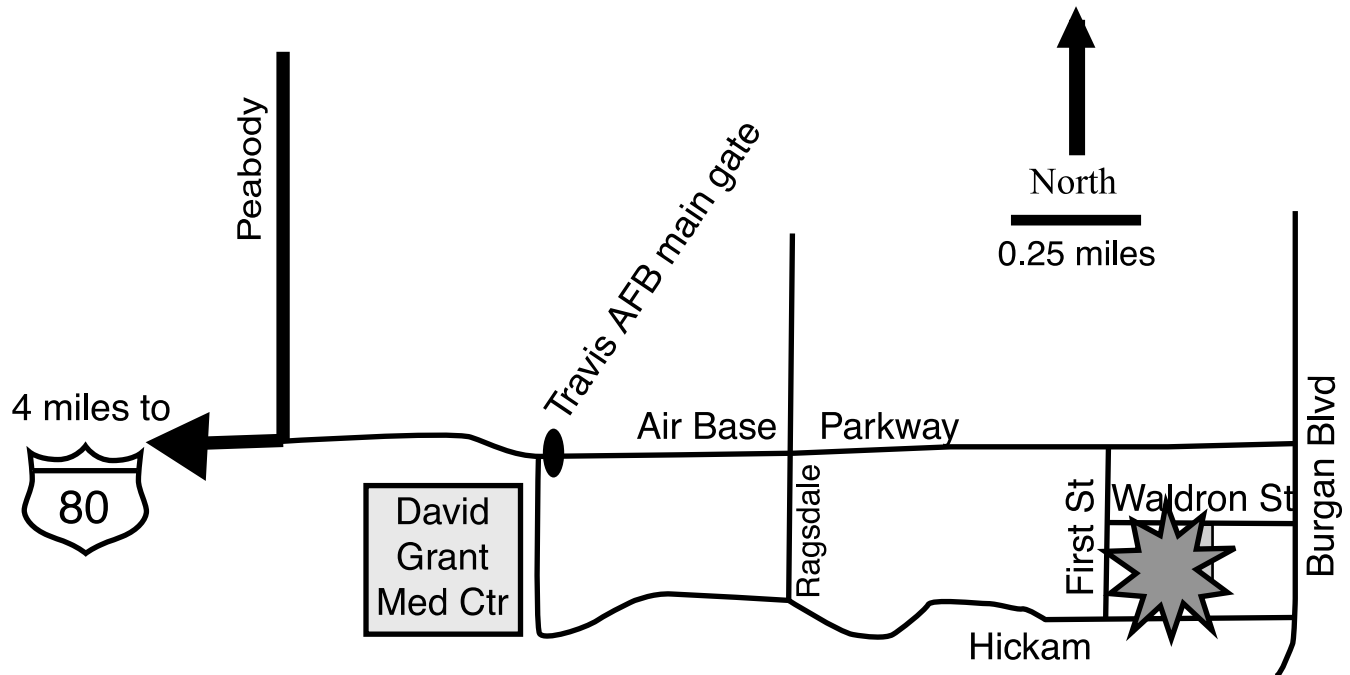
GENERAL INFORMATION: Parking permits are good for all Solano College campus locations. Permits must be located as directed on the permit directions. Parking fees are subject to change. Parking brochures are available at the Police Department. An appeal process to contest citations is available. Got to 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:** Parking Lots A-F
- **STUDENT:** Parking lots 1-6
- **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 on the Travis Air Force Base page in this Catalog (Page 306). 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 security measures at TAFB, all non-military students must be registered in a class meeting at Travis to receive a pass to enter the base. Students already registered for Travis classes will be able to obtain their base pass at the Pass & ID office, 605 Airbase Parkway, Fairfield, California, located on the right hand side before the main gates.

All registered students will be required to provide the information listed below:

1. A current driver's license
2. Valid car registration (this must be the vehicle you plan to drive to class each week)
3. Valid proof of car insurance
4. Proof of your enrollment in a class at Travis (your registration printout showing your classes).
5. Travis AFB personnel may require other forms of identification as needed.

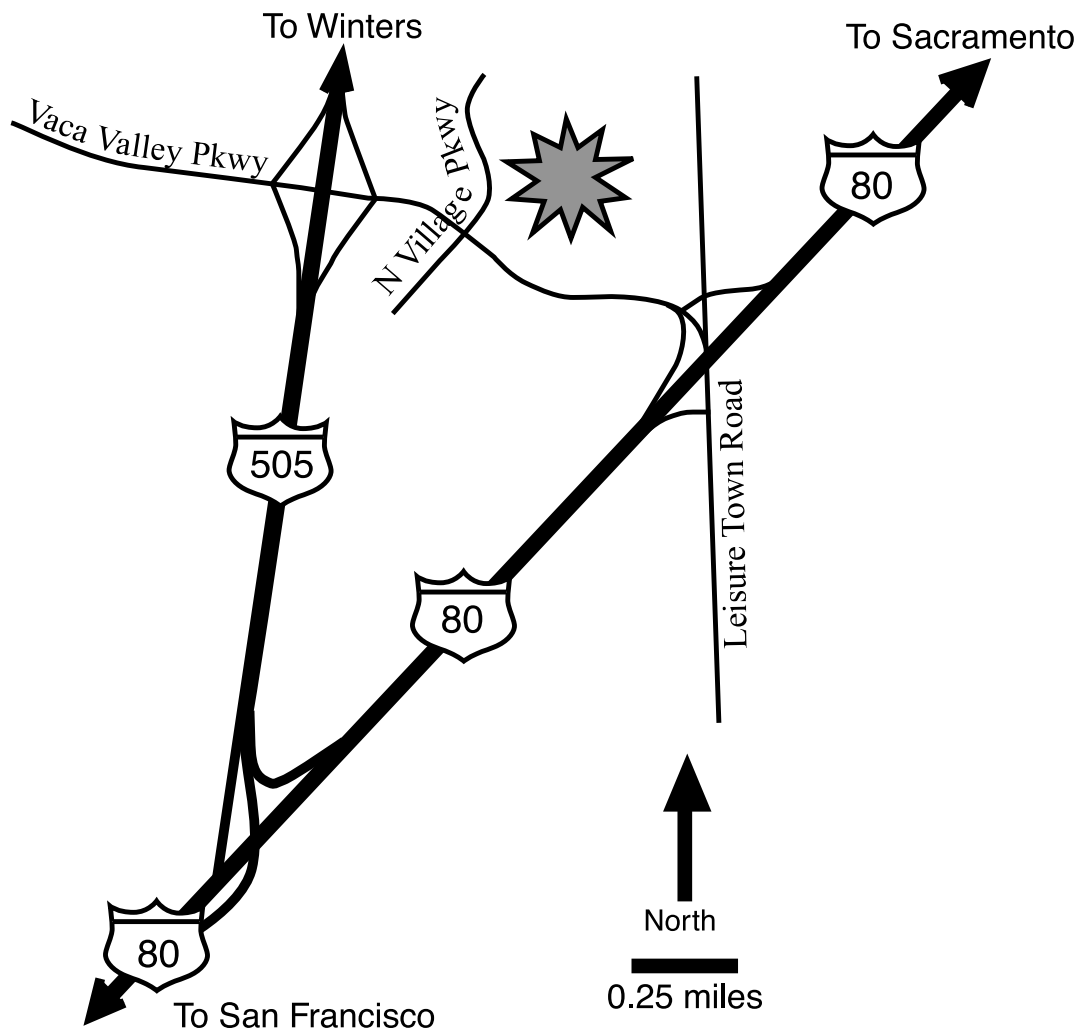
Vehicle (gate) passes are not transferable to any vehicle other than the one for which the pass was originally issued. Please allow approximately one hour for issuance of a gate pass. For additional information or inquiries, please call the SCC Travis Office at (707) 863-7878 or (707) 424-2431.

NOTE: Students must have their own transportation. Automobiles without military ID, or an authorized semester pass will not be admitted on TAFB. For additional information, please call the SCC Travis office.

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 Travis office to inform them.

Campus Maps

Vacaville Map



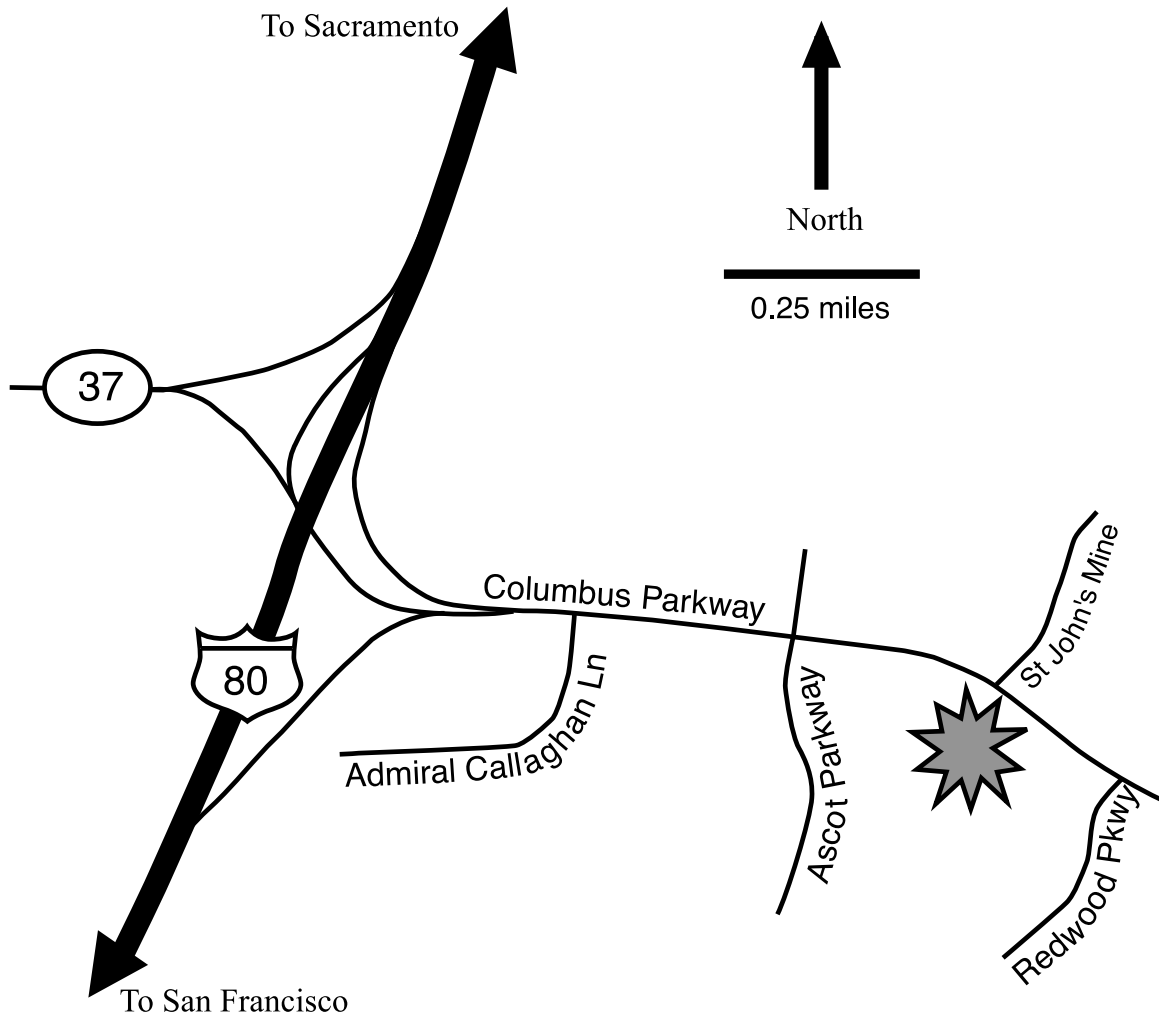
The Solano Community College Vacaville Center is located north of the City of Vacaville at 2001 North Village Parkway. Turn onto North Village Parkway (formerly known as 1990 Akerly Drive), just off of Vaca Valley Parkway. Center information and driving directions are also available on our website, please 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 at the Vacaville 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. 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

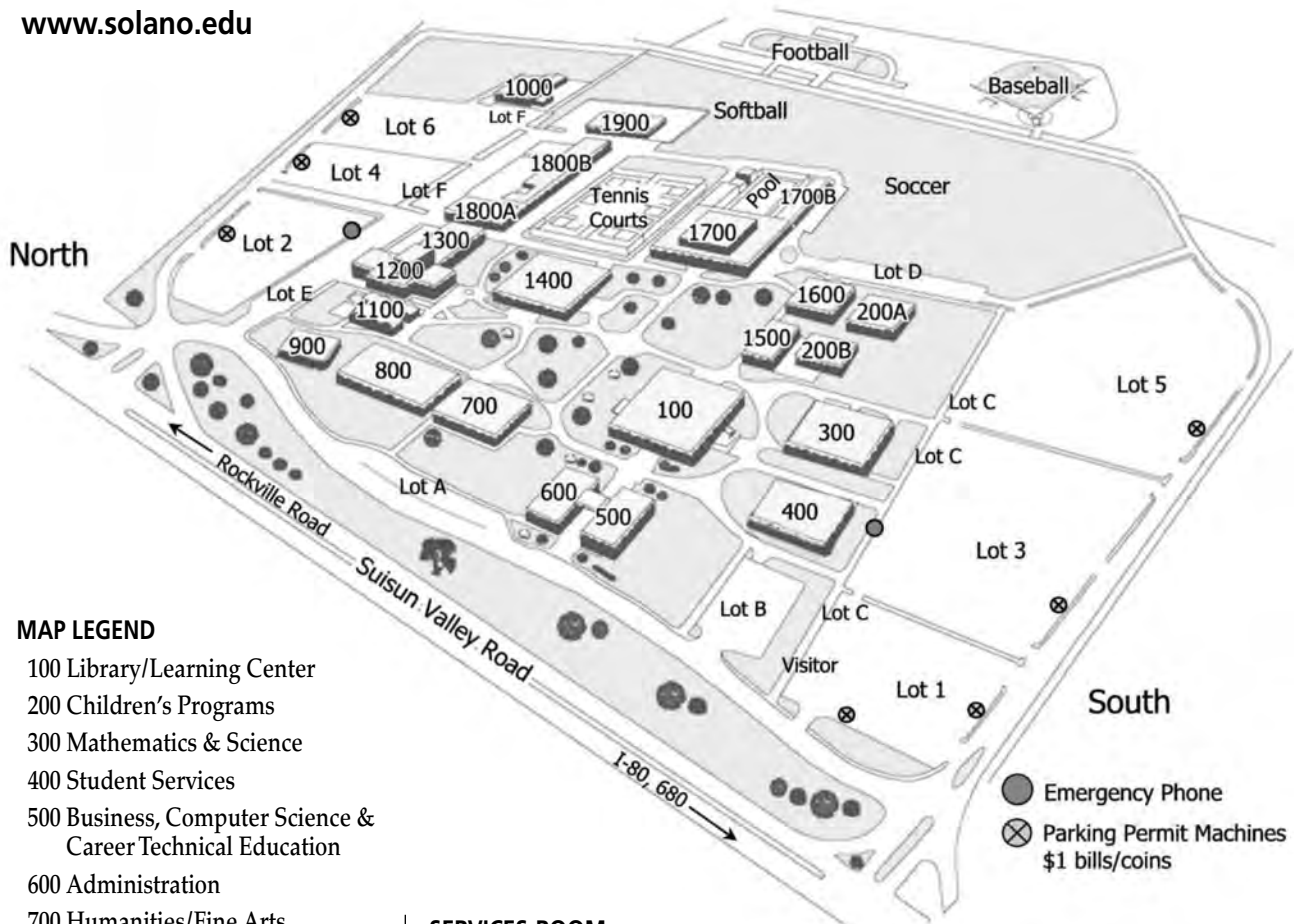


SOLANO
COMMUNITY COLLEGE

www.solano.edu

Fairfield Map

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



MAP LEGEND

- 100 Library/Learning Center
- 200 Children's Programs
- 300 Mathematics & Science
- 400 Student Services
- 500 Business, Computer Science & Career Technical Education
- 600 Administration
- 700 Humanities/Fine Arts
- 800 Health Occupations/ Public Safety & Family Studies
- 900 Faculty Office
- 1000 Horticulture
- 1100 Police
- 1200 Music/Theatre
- 1300 Fine & Applied Arts & Behavioral Sciences
- 1400 Bookstore/Cafeteria/ Student Union
- 1500 Engineering/Math
- 1600 Cosmetology/Fine Arts
- 1700 Athletics/Physical Education
- 1800 Career Technical Education
- 1900 Facilities/Warehouse

- Emergency Phone
- ⊗ Parking Permit Machines \$1 bills/coins

SERVICES-ROOM

- | | |
|---|--|
| Admission & Records - 400 | Foundation - 614 |
| ASSC & Student Union - 1400 | Information - 401 |
| Assessment Center - 442 | Instruction Office - 600 |
| Boardroom - 626 | Learning/Tutoring Center - 100 |
| Bookstore - 1400 | Library - 100 |
| Business & Personnel Office - 600 | MESA Program - 434 |
| Cafeteria - 1400 | Student Health Services - 1400 |
| CalWORKs - 426 | Student Services - 433 |
| CARE Program - 426 | Superintendent/ President's Office - 627 |
| Career & Employment Services - 437 | Theatre - 1200 |
| Community Services & Training/Vistas - 1638 | Transfer Center - 438 |
| Counseling - 404 | Veteran's Affairs - 429 |
| Disability Services Program - 407 | Workforce & Economic Development - 151 |
| EOPS - 426 | |
| Financial Aid - 425 | |

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

(707) Area Code • 864-7000 Main Line

Web site: www.solano.edu

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	Superintendent-President	864-7112
Admissions & Records.....	864-7171	Switchboard.....	864-7000
Assessment Center.....	864-7118	Tech Services & Support	864-7267
Athletics	864-7126	Theatre Box Office	864-7100
Bookstore	864-7111	Transfer Center	864-7158
CalWORKS.....	864-7000	Vacaville Center.....	863-7872
	ext. 4645	Vallejo Center	642-8188
Career Technical Education & Business	864-7108	Veterans Affairs.....	864-7105
Cafeteria Office	646-2874	Work Experience.....	864-7139
Campus Police.....	864-7131	Workforce & Economic Development	864-4477
Community Services	864-7115	Foundation.....	864-7177
Community Education.....	864-7160		
Facility Rentals	864-7000	Fax Numbers:	
	ext. 4400	Admissions & Records (A&R)	646-2053
Cosmetology Receptionist.....	864-7180	Bookstore	864-1357
Counseling & Guidance	864-7101	Business Office/Fiscal Services	646-2056
Criminal Justice Coordinator.....	864-7000	Community Services	646-2074
	ext. 4703	Counseling Office.....	646-2065
Disabled Services	864-7136	EOPS	646-2069
Early Childhood Education.....	864-7183	Financial Aid	646-2071
English/Foreign Languages	864-7107	Fire Science	646-2060
Financial Aid	864-7103	Fiscal Services	646-2056
Liberal Arts	864-7114	Graphics (main fax)	864-0361
Fire Technology Coordinator	864-7148	Human Resources.....	646-2075
Health Services (Nurse).....	864-7163	Library.....	646-2076
Horticulture	864-7211	Maintenance	646-2051
	864-4308	Nursing.....	646-2090
Human Resources Job Line.....	864-7129	Placement/Students.....	646-2070
Human Resources Office.....	864-7128	Small Business Dev. Center	864-8025
Library.....	864-7132	Superintendent/President	646-2085
Maintenance and Operations.....	864-7196	Theater	646-2087
Sciences	864-7110	Vacaville Center.....	646-2086
Nursery School	864-7108	Vallejo Center	646-2077
Nursing.....		Veteran's Office	646-2092
Occupational Work Experience	864-7139	Work Experience.....	646-2080
Parking Information	864-7131		
Human Performance & Development	864-7126		
Small Business Development Center			
360 Campus Lane, Suite 102, Fairfield.	864-3382		
Special Services:			
EOPS/CARE.....	864-7145		
Student Development	864-7168		
Student Placement Services.....	864-7124		
Student Services	864-7102		

COLLEGE E-MAIL

You can e-mail just about anyone at Solano College by using this formula:

(first name).(last name)@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 707.448.8611



VALLEJO CENTER:
545 Columbus Parkway, Vallejo, CA 94591
707.642.8188 FAX 707.552.8924